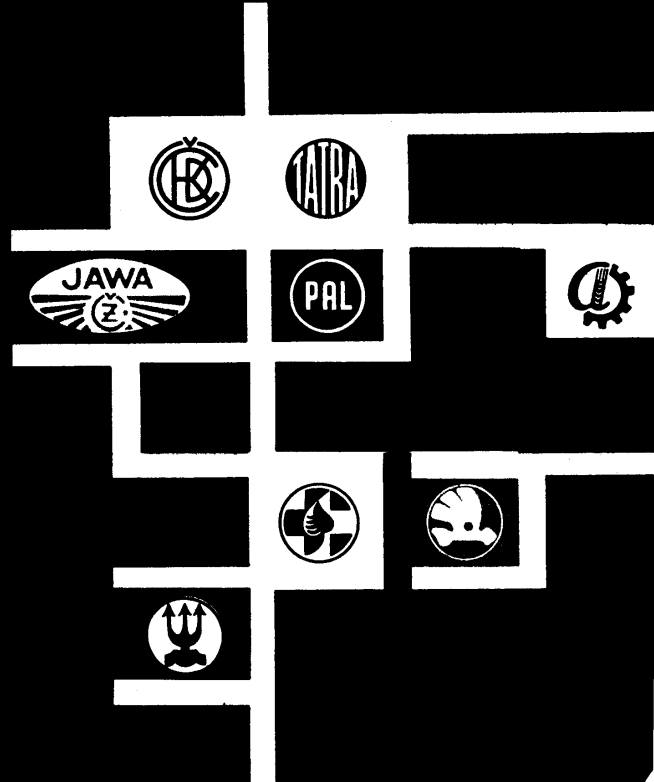


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catalogue

of the III Czechoslovak Engineering Exhibition



BRNO
SEPTEMBER 1st - 22nd - 1957

BRNO 1957



- Main Exhibition Palace — Products of Heavy Engineering and Metallurgical Industries
- Measuring Instruments
- Laboratory Instruments
- Machines for the Textile, Leatherworking and Graphic Industries
- Electric Time Measuring Equipment and Instruments
- Food Processing Machines
- Consumer Goods
- Telecommunication Engineering
- Mechanized Office
- Surgical Instruments and Equipment
- Motor Cars, Motor-cycles, Bicycles and Accessories
- Aircraft
- Machines for Mining and Metallurgical Industries
- Road, Building and Transport Machines
- Lorries, Vehicles for Mass Transport of Passengers, Aircraft
- Agricultural Machines
- Pumps
- Locomotives, Wagons

- Foreign Visitors Centre
- Foreign Visitors Restaurant
- Administration Building
- Press Centre
- Theatre — Cinema
- Main Entrance
- Restaurant
- Stadium for Bicycle Racing
- Post Office
- First Aid Post
- Wine Restaurant
- W. C.
- Playground for Children
- Sales Stalls
- Electric Railway Station
- Motor Car Entrance



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CATALOGUE
OF THE IIIrd EXHIBITION OF CZECHOSLOVAK ENGINEERING

BRNO — SEPTEMBER 1th — 22nd 1957

SNTL

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CHAMBER OF COMMERCE OF CZECHOSLOVAKIA
P R A H A

CATALOGUE

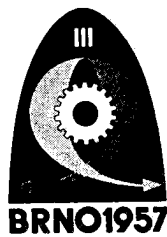
of The IIIrd Exhibition of Czechoslovak Engineering

Brno — September 1th — 22nd 1957

Publishers of Technical Literature
PRAHA

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Ladies and Gentlemen

On behalf of the Czechoslovak Chamber of Commerce, the organizer of the exhibition, and on that of the exhibitors as well as the management of the Third Exhibition of Czechoslovak Engineering in Brno. I have the pleasure of welcoming all visitors from home and abroad. I hope that all those who have come to see the exhibition, whether for commercial or technical reasons, will be convinced that the Czechoslovak technology is continuously undergoing progressive development, this being the intention of the individual exhibitors and the organizers.

Our exhibition which, is already the third of its type and one of the greatest national industrial exhibitions in the world, testifies to the fact that the Brno engineering exhibitions have become in a comparatively short time an organic part of the tradition of our industry and exhibitions as one of their most important elements. Already for the third time you are entering the Brno exhibition grounds where an imposing array of standard types of engineering products together with world novelties of the Czechoslovak engineering industry will acquaint you with our successes in the field of technology.

The importance of engineering exhibitions as contributions to the development of new, progressive technology and methods of production is, however, inseparably connected also with their importance for our foreign trade. An effective survey of the export programme of the Czechoslovak foreign trade corporations which are concerned with the export of engineering products and attain considerable success in world competitions will contribute to an increase of the number of orders

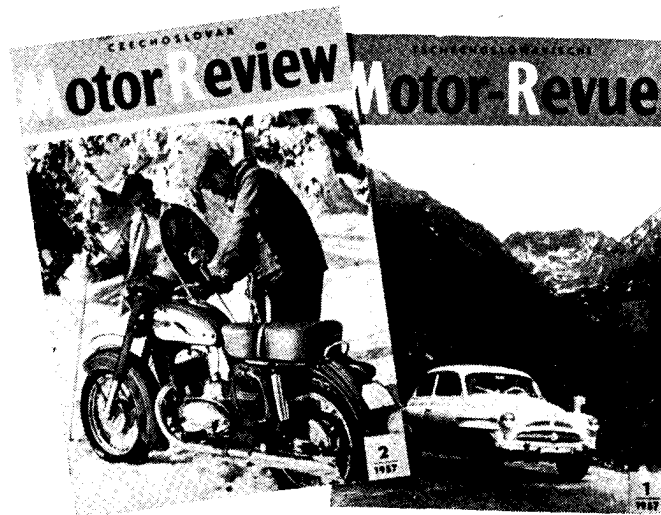
You can obtain a general idea about the Czechoslovak engineering industry by subscribing regularly to the following magazines:

CZECHOSLOVAK MOTOR REVIEW

which contains articles dealing with the technical advantages of motor vehicles of Czechoslovak make as well as instructions for their maintenance and servicing. It contains further novelties and interesting news from the production of motor-cycles and motor cars as well as reports about the successes of Czechoslovak machines in international races and competitions, all accompanied by rich illustrations.

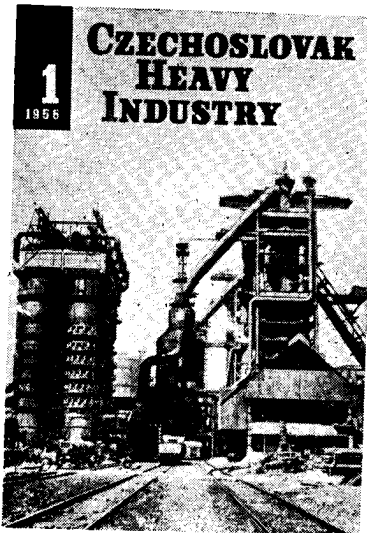
ISSUE: 12 copies annually in English, French, German and Spanish versions.

SUBSCRIPTION RATE: \$ 3 yearly (or in other foreign currencies).



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ULICE 28. ŘÍJNA 13, PRAHA 1 - CZECHOSLOVAKIA.

You can obtain a general idea about the Czechoslovak engineering industry by subscribing regularly to the following magazines:



**CZECHOSLOVAK
HEAVY INDUSTRY**

which deals with the technical development and progress of the Czechoslovak engineering industry and contains highly technical articles by the foremost experts of the Czechoslovak heavy industry as well as numerous illustrations.

ISSUE: 12 copies annually in English, German, French, Russian and Spanish versions.

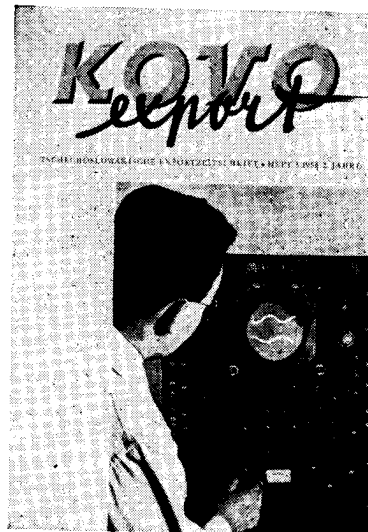
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KOVOEXPORT

which affords information about the technical development of metal products, viz. those of the radio engineering industry, telecommunication techniques, optical, medical and surgical instruments, graphical and textile machines, precision tools, etc.

ISSUE: 12 copies annually in an English version with a Spanish summary, and in a German version with Russian and French summaries.

SUBSCRIPTION RATE: \$ 4 yearly (or in other foreign currencies).



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from commercial and technical partners both from countries with a highly developed industry and from those which are only building up their industrial power.

The slogan of this year's engineering exhibition, which stresses automation and mechanization as important means of increasing productivity of work and consequently means of improving the standard of living, is directed above all to all workers of the Czechoslovak engineering industry who will visit the exhibition and whose comparison of the results of their own work with those of the work of workers of other factories will stimulate the effort to ensure continuous improvement of the good reputation of the Czechoslovak industry in the world.

The Third Exhibition of Czechoslovak Engineering is, in comparison with the preceding exhibition, of much greater importance. It is the last independent exhibition, of the strongest branch of the Czechoslovak industry before the renewal of the Czechoslovak fairs which will be organized from next year onwards in the very place you are visiting at present. We hope firmly that we shall have the pleasure of welcoming all visitors to the engineering exhibitions again at the renewed fairs and demonstrating to them to what extent the grandiose conception of the surveys of the Czechoslovak engineering industry was a mere preparation and overture to the renewed Czechoslovak fairs.

JAROSLAV PISAŘÍK,

DIRECTOR OF THE IIIrd EXHIBITION OF CZECHOSLOVAK ENGINEERING, BRNO

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01 STRONG CURRENT ELECTRICAL ENGINEERING

01/001

Hydrogen Cooled Synchronous Compensator of DK 6176/2 Series
supplies or takes wattless current from the net; if over-excited, it operates as a condenser while it functions as a choke-coil in the under-excited state. Output: 30 MVAR, 10.5 kV, 3000 r. p. m. *TECHNOEXPORT*

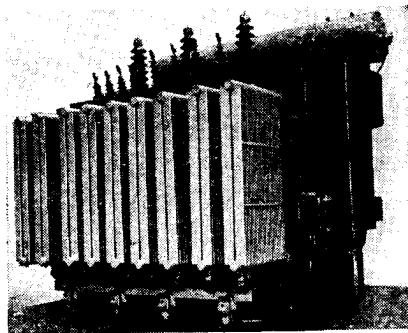
01/002

Air-Cooled Synchronous Turbo-Alternator of 6H5262/2 Series
intended for the production of electric power if directly connected to the steam turbine. Output: 5000 kVA, 4000 kW, 6300 V, 460 A, 3000 r. p. m. Exciter: 45 kW, 110 V, 409 A, 3000 r. p. m. *TECHNOEXPORT*

01/003

Three-Phase Low-Voltage Alternator

two-bearing, flange, semi-enclosed type: A8c4, 400/231 V, 20 kVA, 16 kW, A10b4, 400/231 V, 62 kVA, 49.6 kW, A16a6, 400/231 V, 500 kVA, 400 kW. *STROJEXPORT*



01/005

01/005

On-Load Transformer 1 ER 31 M
designed for transforming electric power of a 100 kV distribution system in order to supply a 22 kV net. Output: 25 MVA. *STROJEXPORT*

01/006

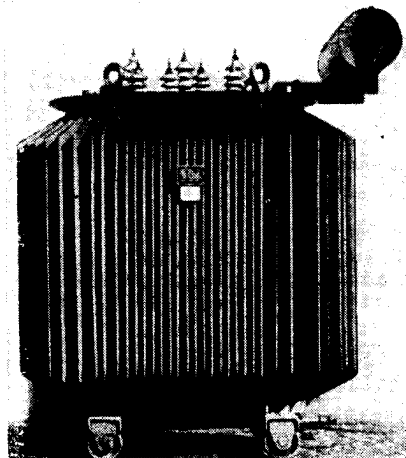
Power Transformer 68,000 kVA,

115 ± 5 p. c./15 kV. The largest power transformer produced in Czechoslovakia. The oil cooling system consist of two radiator batteries which are located outside the transformer and in which the oil circulates. *TECHNOEXPORT*

01/007

Test Transformer Set, 350 to 1050 kV

consists of transformer units with a 3/350 kV ratio. The exhibited test transformer is the third unit of the set, designed for a test voltage of zero to 1050 kV. Output: 333 kVA. Output of the complete set: 1000 kVA. *TECHNOEXPORT*



01/008

01/008

Three-Phase Short-Circuit-Proof Transformer

The transformer winding is centrally arranged on the yoke, consisting of coils which are circular in shape. Output: 630 kVA, h. voltage 22,000 V, 1. voltage 6300 V. *TECHNOEXPORT*

01/011

Current Transformer 2 JO 220

150/300/600/1/1 A; the transformer has two cores, one for an output of 30 VA with an accuracy of 0.2 and overcurrent figure below 5, and the other one for an output of 60 VA within class of accuracy 1 and with overcurrent figure above 10. Weight: 1840 kg.

STROJEXPORT

01/012

Voltage Transformer COF 220

220000/V3/100/V3/100/3V, output 120 VA, class of accuracy 0,2 or 300 VA, class of accuracy 0,5, or 600 VA, class of accuracy 1.

STROJEXPORT

01/013-014

Current and Voltage Transformer

designed for measuring rated current of very high voltages of 110 kV, 132 kV, 161 kV and 220 kV in a 100 kV switchyard.

STROJEXPORT

01/016

Single-Phase Autotransformers

01/018

**Air-Blast Circuit Breaker
VV 110/d**

for very high voltage switchyards. 110 kV, 1000 A, 3500 MVA, air pressure of 20 atm. Control voltage: 110/220 V d.c.

STROJEXPORT

01/019

Air-Blast Circuit Breaker VV 66/d

for very high voltage switchyards. 66 kV, 600 A, 2000 MVA, air pressure of 20 atm. Control voltage: 110/220 V d.c.

STROJEXPORT

01/020

**Disconnecting Switch DOS B-110
Z/1000**

for very high voltages with switchyard earthing switch. 110 kV, 1000 A, working air pressure: 4,5 to 20 atm. Weight: 100 kg.

STROJEXPORT

01/021

Disconnecting Switch DOS B-66Z

with earthing switch, for very high voltage switchyards. 66 kV, 600 A, working pressure of 4,5 to 20 atm. Weight: 100 kg.

STROJEXPORT

01/022

**Minimum Oil Circuit Breakers
for very high voltages**

66 kV, 600 A, 1500 MVA 132 kV, 600 A, 3000 MVA 110 kV, 600 A, 2500 MVA.

STROJEXPORT

01/023

01/024

**Autovalve Lightning Arresters
220, 132, 110 and 66 kV**

Autovalve Lightning Arresters for high and low voltage, are designed to protect reliably the insulation of electric apparatus from the effects surges.

STROJEXPORT

01/027

**Unit Head Switchboard 10 to
22 kV, 200 to 400 MVA**

for medium sized industrial transformer stations with air blast and minimum oil circuit breakers with hand or air-pressure drive. Voltage: 10 and 22 kV. Output: 20 to 400 MVA.

STROJEXPORT

01/028

**Six-Anode Air-Cooled Mercury
Rectifier 6 UI 303, 1000 A, 3300 V**

air-cooled, with six single-anode valves, arranged in a circle.

STROJEXPORT

01/033

**Rotary Single-Phase Rectifier
for very high voltage 55 kV,
0.2 A**

used for converting alternating current into direct current of very high voltage and very low intensity for the purpose of energizing electrostatic precipitators installed for the purification of flue and chemical gases.

STROJEXPORT

01/034
Contact Test Rectifier

used in electrolysis. It is provided with six choke coils, connected in series to six contacts which are operated from a synchronous motor by means of eccenters, rockers and cams. Trapezoidal and direct current pre-magnetization, parallel circuit with semi-conductors, measuring circuit for ascertaining the moment of switching off and on by means of measuring instruments and oscilloscope.

STROJEXPORT

01/035
Cable Filled with Oil under Pressure, 110 kV with terminals

The three cable cores are enclosed in a steel pipe filled with insulating oil under a pressure of 14 atm. which replaces the customary lead armour. The cable, 3 150 sq mm. in crosssection is made of copper and designed for 60 MVA and 110 kV. *STROJEXPORT*

01/037
D. C. Shunt Motor 2 ARU 3044 F/4

for use in rolling mills, for driving groups of conveyors, setting rollers, operating guide bars, etc. Output: 37,5 kW, 440 V, 600 r.p.m. Weight: 1230 kg. *STROJEXPORT*

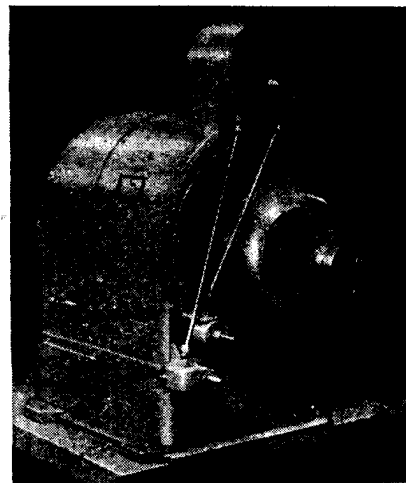
01/038
Three-Phase Squirrel Cage Induction Motor RPU 9-36 R/20

designed for driving roller conveyors in rolling mills. Output: 10 kgm, 500 V, 9 A, 50 c/s, 270 r. p. m. Weight: 280 kg. *STROJEXPORT*

01/039
Three-Phase Induction Motor ER 16-51 V/8

with own surface cooling and whirl type motor for use in dusty conditions, for driving hammer or ball mills, coal pulverizing mills and crushers, etc. Output: 260 kW, 6000 V, 34 A, 50 c/s, 740 r. p. m. Weight: 3940 kg.

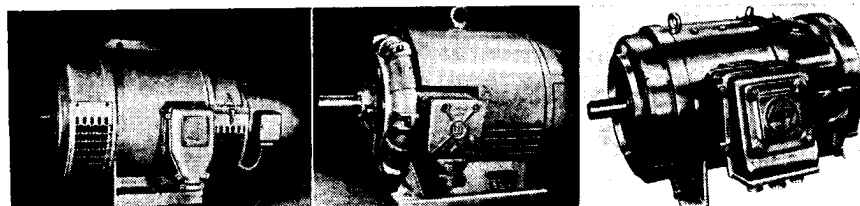
TECHNOEXPORT



01/040

01/040
Three-Phase Commutator Shunt Motor

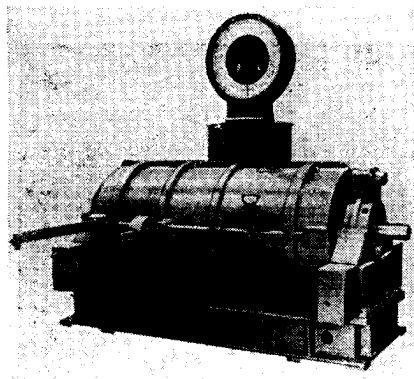
with cooling air supply and outlet and automatic speed governor, for use with spinning, warping, winding, printing and knitting machines, cotton looms, etc. 380 V, 12,5 - 3,6 kW, 1400 - 440 r. p. m. *STROJEXPORT*



01/042
Rotor of a Large Induction
Aluminium Squirrel Cage Motor

for induction motrs with heavy and frequent starting, such as for the operation of coal hammer an ball mills and pulverizers. Output: 260 kW, 35 A, 730 r.p.m. Weight: 1120 kg.

STROJEXPORT



01/043

01/043
Three-Phase Commutator Shunt
Dynamometer

for direct measuring the torque of driving and driven machines. Output: 160 kW at 2800 r. p. m.

STROJEXPORT

01/044
Three-Phase Air Contactor
ST 4/60 for high voltages and
a. c. up to 60 kV, 200 A

for switch rooms and industrial drives for switching loaded circuits up to 6 kV of rated voltage. Rated voltage: 6 kV. Maximum working voltage: 6,9 kV.

STROJEXPORT

01/047
Cubicle Low Voltage Switchboard

for d. c. voltages up to 440 V or a. c. voltages up to 500 V and currents up to 1000 A.

STROJEXPORT

01/048
System "U" Aluminium
Switchboard

of standard aluminium boxes with equipment for rated voltages up to 500 V and rated bus-bar current of 600 A.

STROJEXPORT

01/049
Spencer's Diaphragms

Thermal protection up to 110 °C, 220 V.

STROJEXPORT

01/050
Cubicle Switchboard SSN 600

for normal conditions (protection C) or designed to operate in coarse dust (protection F). Rated bus-bar current up to 600 A.

STROJEXPORT

01/051
Wall-Mounted Unit Head
Distributor GSN

designed to operate under normal or dusty conditions (protection G). The bus-bars are for rated currents of 200, 400 or 600 A.

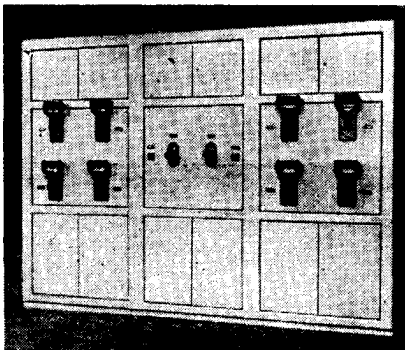
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01/052
Cubicle Switchboard SSN 2000
up to 2000 A

designed to operate under normal conditions (protection C).

STROJEXPORT

01/047



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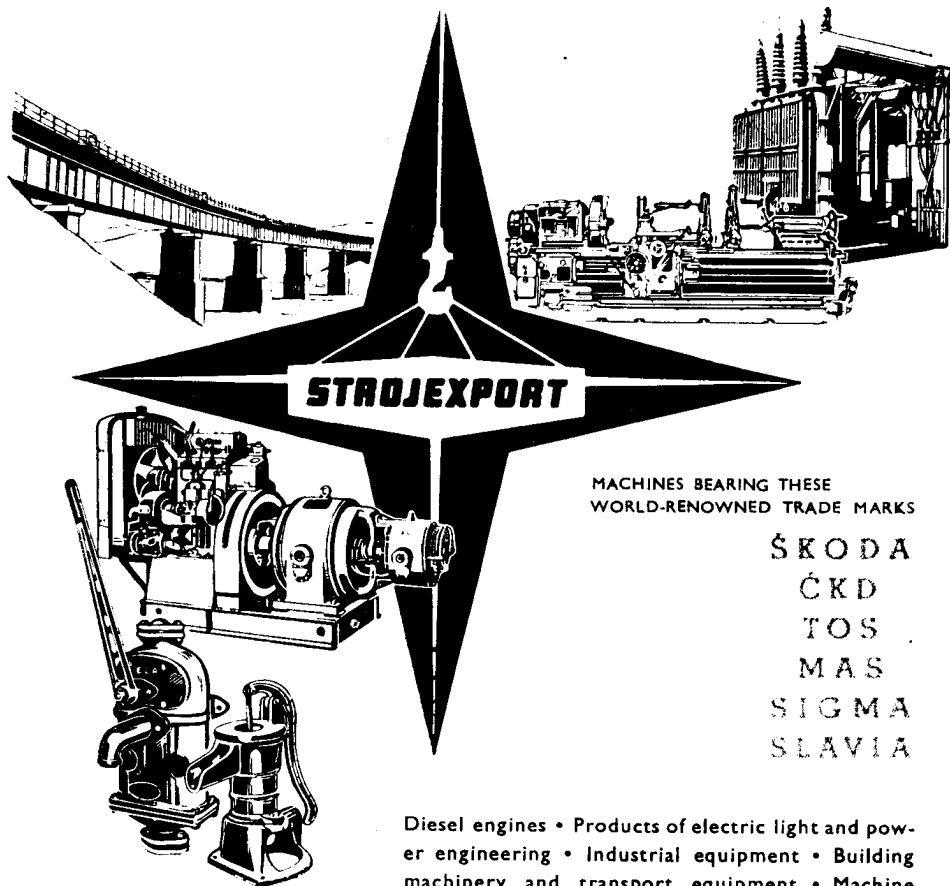


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SOLE EXPORTER

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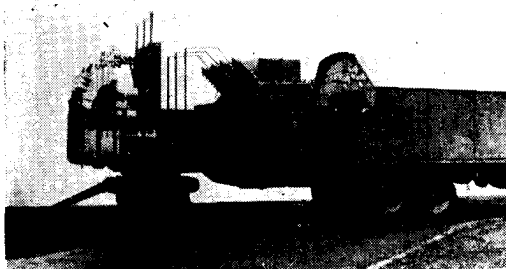
PRAHA CZECHOSLOVAKIA

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01/053 1
Mobile Transformer Station,
Type "Julie"

is a mobile unit which can be promptly set in operation where electric power supply is required. Three-phase main transformer. Output 3150 kVA. higher voltage 35 or 22 kV. Overhead transmission line. Lower voltage 6300 and 3150 V. Outgoing feeders by cable.

STROJEXPORT

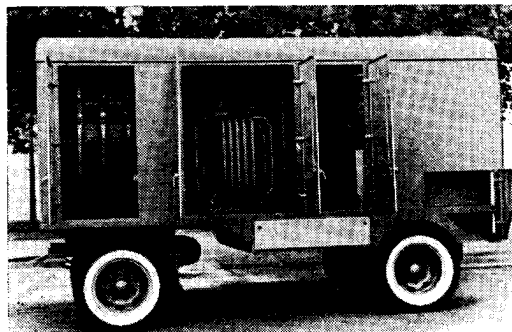


01/053 1

01/053 2
Mobile Transformer Station,
Type "Barbora" for Mines

for use underground and mines without explosion danger. Each of the three parts can be conveyed in normal cages. Output: 75 or 160 kVA. Voltage: 3 to 6 kV, 400 to 500 V. Auxiliary voltage: 24 V.

STROJEXPORT



01/053 2

01/054
Crane Dust-Proof Switchboards
Type JS 10203, JR 10203

designed for the typified series of overhead travelling cranes of 5 to 50/8 T. The switchboards can be mounted in the cabin of the crane.

STROJEXPORT

01/055
Load Carrying Electromagnet
TM 5

designed to carry hot castings in metallurgical works. Input: 450 W. d. c. voltage: 300 V, 1,5 A. Weight: 330 kg. Maximum capacity: 3000 kg.

01/056
Bus-Bar Distribution System 200 A,
400 A, 600 A, voltages up to 500 V

for the three-phase distribution of electric energy in bays of plants under normal conditions.

STROJEXPORT

01/059
H. F. Melting Furnace

STROJEXPORT

01/060
Insulation Tester, Type M 029,
220 V, 50 c/s

By means of this surge impulse insu-

lation tester, faults in insulation (inter-turn short-circuit, short-circuit on the frame in the stator winding) can be ascertained. It is especially suitable for standard type electric motors. Input: 450 VA. D. C. voltage of impulse generator: 2,5 kW.

STROJEXPORT

01/061
Gross-Section through the
HV 84580/32 Generator of the
"Orlík" Hydro-Electric Power
Plant

TECHNOEXPORT

01/063
Model of an Underground Cable
Duct

TECHNOEXPORT

01/064
D. C. Generator MR 2814-4

Db type, HO design, 36 kW, 115 V, 313 A, compound type, 1500 r. p. m., cast-iron construction with two bearing shields.

STROJEXPORT



01/070
Control and Signalling Desk

with technological lay-out, designed for coal crushing and pulverizing plants. Control voltage: 220 V. Signalling voltage: 34 V. Weight: 190 kg.

TECHNOEXPORT

01/074
Cubicle Switch Plant, 6 kV

with two systems of bus-bars with draw-out air blast circuit breakers of 200 MVA.

STROJEXPORT

01/075
H. V. Current Transformers

Short-circuit proof current transformer NAFD 421/340. Short-circuit proof current transformer, bushing type, NAFD 642/660. Short-circuit proof current transformer, bushing type, NAFD 863/850.

STROJEXPORT

01/076
**High Voltage Transformers,
NV Type**

Dry, two-pole insulated transformer NV 101, NV 184, NV 334, NV 444.

STROJEXPORT

01/077
Fuses

with fuse base outdoor mounting FTXS 10-200/11 (with FTXA 10-20/11 cartridge) FTXS 22-200/11 (FTXA 22-15/11) FTXS 35-200/11 (FTXA 35-10/11).

STROJEXPORT

01/078
Fuses to 60 A

with fuse base for outdoor mounting FTXT 10-200/11 (with FTXB 10-60/11 cartridge) FTXT 22-200/11 (with FTXB 22-40/11 cartridge) FTXT 35-200/11 (with FTXB 35-30/11 cartridge).

STROJEXPORT

01/079
Three-Pole Cut-Out Fuses to 60 A

FTTT 10-300/31 three-pole cut-out switch with three FTCB 10-60/11 cartridges, FTTT 22-200/31 with three FTCB 22-40/11 cartridges, FTTT 35-200/31 with three FTCB 35-30/11 cartridges.

STROJEXPORT

01/080
**Electromagnetic Contactors to
500 V**

Four-pole air contactor HS 25-41. Three-pole air contractor with in-built thermal relay HBST 60-31, HBS 100-31, HBS 200-31, HBS 400-31, HBS 600-31.

STROJEXPORT

01/081
**Air Blast Circuit Breakers,
10 and 35 kV**

Three-pole air blast circuit breaker, resistance type, CPR 201-10/600. Three-pole air blast circuit breaker CP 605-10/2000. Three-pole air blast circuit breaker for repeat switching, CP 405-35/600.

STROJEXPORT

01/082
Control Valve for QC 20-1 Air
Blast Circuit Breakers
STROJEXPORT

01/083
Disconnecting Switches, 22 and
35 kV

Single-pole disconnecting switch for outdoor mounting TEPD 22/600-11 with air-pressure drive. Single-pole special disconnecting switch for outdoor mounting TEPK 35/600-11.
STROJEXPORT

01/084
Isobreaker 10 kV, 400 A with
3 FTCS 10 fuses incl. cartridges

Three-pole type BTB 10/400-34 with three FTCS 10-200/11 fuses and FTCA 10-20/11 cartridges.
STROJEXPORT

01/085
Bulk Oil Circuit Breaker 35 kV,
400 A, 400 MVA

Three-pole oil circuit breaker OVH 35/532.
STROJEXPORT

01/086
Oil Circuit Breaker,
Type VOP 10/600-33

Three-pole oil circuit breaker VOP 10/600-33.
STROJEXPORT

01/087
Air Circuit Breakers 100, 350,
600 A to 500 V

Three-pole air circuit breakers VMT 333, VMT 533, VMT 600-33.
STROJEXPORT

01/088
A. C. Contactor Thermal Relays
for use under unfavourable climatic
conditions

Three-pole thermal relays ET 60-31, ET 100-31. Three-pole short-circuit proof thermal relays ETZ 200-31, ETZ 400-31, ETZ 600-31.
STROJEXPORT

01/089
Three-Pole A. C. Air Contactor,
1000 A
STROJEXPORT

01/090
Trip VMT for Air Blast Circuit
Breakers
STROJEXPORT

01/091
Three-Pole Air Blast Circuit
Breaker VMKN 3000-33
STROJEXPORT

01/092
Four-Pole Circuit Breaker
LMTK 433
STROJEXPORT

01/093
Automatic Dehydrator AOV 25
for use with compressor stations in switch plants and power stations.
STROJEXPORT

01/094
Outdoor Fuses to 20 A for 10, 22,
35 kV

FTCS 10-200/11 fuse base with FTCA 10-15/11 cartridge. FTCS 22-200/11 fuse base with FTCA 22-10/11 cartridge. FTCS 35-200/11 fuse base with FTCA 35-6/11 cartridge.
STROJEXPORT

01/095
Outdoor Fuses to 60 A for 10, 22,
35 kV

FTCT 10-200/11 fuse base with FTCT 10-60/11 cartridge. FTCT 22-200/ fuse base with FTCT 22-40/11 cartridge. FTCT 35-200/11 fuse base with FTCT 35-30/11 cartridge.
STROJEXPORT

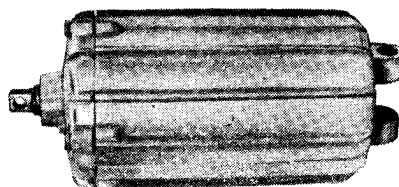
01/097
Three-Pole Air Blast Circuit
Breaker CP 1003-10/4000
Rated voltage: 10 kV. Rated current: 4000 A. Output: 1000 MVA.
STROJEXPORT

01/098

Electromagnetic Valve for the Control of QAM Disconnecting Switches, with pneumatic drive

Maximum working pressure: 20 atm.
Control voltage: 220 V d. c.

STROJEXPORT



01/099

Hand Valve for the Control of QAR Disconnecting Switches

with pneumatic drive. Maximum working pressure: 20 atm. *STROJEXPORT*

01/108

01/100

Switchroom Coupling Valve

OO 20-1

Maximum working pressure 20 atm. g.
STROJEXPORT

01/108

ZTH Electro-Hydraulic Apparatus

for releasing brakes of cranes and remote control of points, small presses, couplings, valves, various clamping devices, etc. Voltage: 380 V. Power of stroke: 25 to 185 kg. Stroke: 50 to 160 mm. *STROJEXPORT*

01/101

Incoming Compartment of L. T. Switchboard NS-81

with air contactor VMTN 2000-33, 500 V a. c. Rated current: 2000 A. Draw-out type. *STROJEXPORT*

01/109

MRZ Three-Phase Reversing Motors

designed for the drive machine tools and frequent reversing. Voltage: 380/220 V. Output: 4 to 7 kW, 1400, 2800 r. p. m. *STROJEXPORT*

01/103

Three-Phase Induction Motors

for an output range of 0,6 to 100 kW, four-pole type, copper winding. 14 identical outputs for all speeds and types. *STROJEXPORT*

01/105

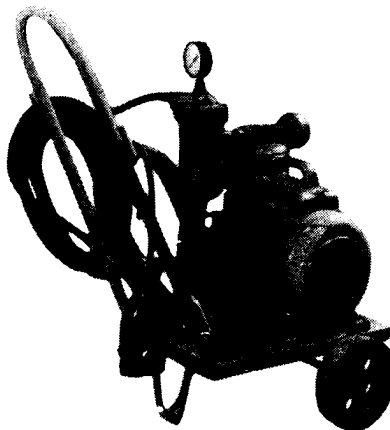
Small and Very Small Induction Motors

STROJEXPORT

01/106

Three-Phase Electric Compressors RGX

stationary, portable or mobile for use in beer-shops, for inflating tyres, spraying paints and other purposes. Voltage: 380/220 V. Output: 65 or 135 litres per min. Working pressure: 4 or 5 atm. Maximum pressure: 8 or 10 atm. *STROJEXPORT*



01/106

01/110

D. C. Sets-TDN-S, SDT Motor-Generators

Dynamo voltage: 110, 220, 440 V. Output: up to 25 kW. STROJEXPORT

01/111

TDN-S, SDT Ward-Leonard Set

The voltage can be adjusted from the rated voltage to zero. Output: up to 25 kW. STROJEXPORT

01/112

Outdoor Cable and Box with non-cemented insulator for 22 to 35 kV Type KVJ 40 FERROMET

External Gas Pressure Cable with double lead armour, 110 kV

suitable even for very steep slopes. FERROMET

External Gas Pressure Cable, 110 kV

suitable for densely populated and industrial areas. FERROMET

Rubber cable 3×150 sq. mm., 6000 V

serves as a flexible supply line to mobile appliances or sources of power (mine excavators, railway truck mounted power plants, etc.). FERROMET

01/113

Glass-Textile Insulation FERROMET

01/115

Three-Phase Squirrel Cage Induction Motor

flange-mounted, explosion-proof, for danger degree 2, enclosed design E×3 MB: 1K42D2 - 380 V, 2,3 kW; 1K81D2 - 380 V, 12 kW; 1K9 1D4 - 380 V, 22 kW. STROJEXPORT

01/116

Three-Phase Squirrel Cage Induction Motor

for use with cranes and heavy mine equipment. HRP52S4 - 380/220 V, 3,2 kW/40 p.c.; HRP72S8 - 380/220 V, 6,6

kW/40 p.c.; HRP1142S6 - 380/220 V, 80 kW/40 p.c. STROJEXPORT

01/117

Electrolytic Dynamos

STROJEXPORT

01/118

Automatic Air-Breakers, Air-Breakers,

motor protection, oil immersed, cataract, de-ion. STROJEXPORT

01/119

Unit Head Resistors, Brake

Electromagnets, Controllers STROJEXPORT

01/120

Single-Pole Air-Breakers IJV, IJM

for the protection of lines and single-phase motors. Rated voltage: 500 V a.c. STROJEXPORT

01/121

Equipment for Cranes

(high-capacity fuses, fuse bases, fuse holders, tubular fuses, Spencer's diaphragms, air-pressure switch, plunger switch, dilatation flexible clutch, rail coupling). STROJEXPORT

01/122

Limit Switches

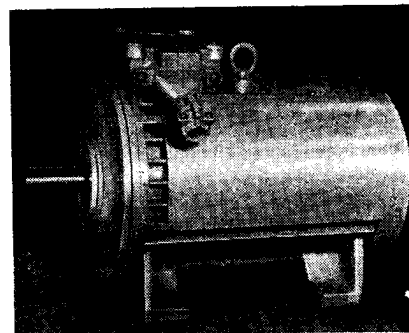
STROJEXPORT

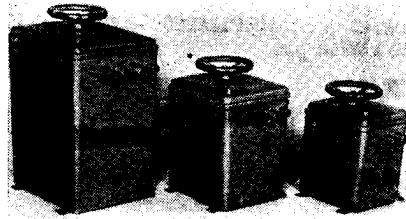
01/123

Drum Type Switches V25R, V40R, V60R, V100R

for switching electric circuits, motors, for use in switchrooms, etc. Rated voltage: 500 V a. c. STROJEXPORT

01/115





01/124

01/124

**Three-Phase Rotor Oil Starters
SOR 1 - 5 and SDO 6**

for starting slip-ring induction motors.
Rated voltage: 500 V a. c.

STROJEXPORT



01/125

01/125

**Three-Phase Outdoor Sockets and
Plugs ZV 25, ZV 60, VZ 25, VZ 60,
VZK 25, VZK 60**

for connecting electric circuits outdoors,
such as farming, building and other
machines. Rated voltage of sockets
and plugs: 25 A, 380 V a. c. 60 A,
500 V a. c.

STROJEXPORT

01/126

**Disconnecting Switches OD, ODT,
ODTU**

for high voltages, for use in switch-
rooms. Rated voltage: 1, 20, 22, 35 kV.

STROJEXPORT

01/127

Electric Hand Tools

Electric Hand Drill E 603/II

for light metals and wood. Weight:
1.30 kg.

Electric Hand Drill EV 213/I

for small assembly jobs. Weight: 4.40 kg.

Electric Hand Drill EV 115

(sturdier design). Weight: 5.90 kg.

Electric Screwdriver EŠ 110

for screws up to M 10. Weight: 3.90 kg.

Electric Grinder EB 15

for finish grinding and cleaning of
welds, castings, center grinding and
heavy assembling jobs. Weight: 11 kg.

Electric Chaser EGS 612/II

for thread cutting of heavy workpieces
and assembly work. Weight: 4.80 kg.

Power Shears NJ 102

for cutting soft steel plates up to 2 mm
in thickness. Weight: 4 kg.

Power Shears EN 3

for cutting soft steel plates up to 3 mm
in thickness. Weight: 5,80 kg.

Electric Mine Drill E 428/II

for drilling deeper bore-holes (up to
6 m) up to 36 mm in diameter in mines
and quarries. Suitable for ores, salt,
slate, limestone and soft or medium-
hard rock. Weight: 15,50 kg.

Electric Angle Drill UV 204

for drilling holes in inaccessible places,
especially used in the aircraft and mo-
tor car body industries. Weight: 2 kg.

MOTOKOV

01/129

**Centrifugal Pumps CRN and CRA,
Power Operated**

for handling water, coolants, etc. Vol-
tage: 380/220 V. Output: 10 to 40 litres
per min., 0,2 to 0,4 atm.

STROJEXPORT

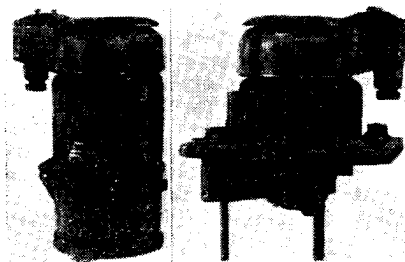
01/130
Shunt Regulator DRV 5/140 M

with cam control and motor drive for the voltage and speed regulation of d. c. shunt motors. *TECHNOEXPORT*



01/131
Expansion Circuit Breaker for High Voltages

35 kV, 1000 A, 600 MVA with pneumatic drive. *STROJEXPORT*



01/137

01/137
Gear Pumps CSP and CSA, Power Operated

for handling oils. Voltage: 380/220 V. Output: 0,5 litre per min., 3 atm., 2 litres per min., 5 atm. *STROJEXPORT*

01/151
FTR 2000 Filtering Station'

Serves for filtering and de-hydration of transformer oils. Nominal output of station 2000 lt./h or 440 Imp. galls./h. Motor input 4.5 to 5.5 kW. Weight 1050 kg or 2315 lbs. *KOVO*

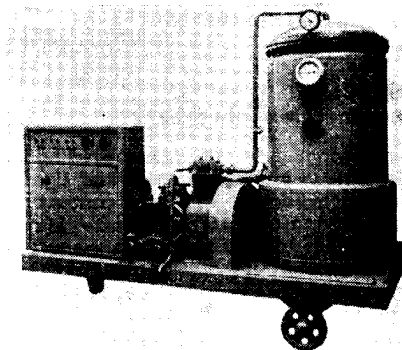
01/138 01/138
BNT Three-phase and Vertical Grinder

for sharpening tools, grinding forgings and castings, etc. Voltage: 380/220 V. Output: 0,33 to 5,5 kW. *MOTOKOV*

01/142
One Half of a Large Turbo-Alternator Coil

pressed and pressure compound type, corrosion-proof, with glass and mica-asphalt insulation. Insulation for a working voltage of 15 kV. *TECHNOEXPORT*

01/151



02 POWER

02/001
Conveyor Type Stoker

for the combustion of low-grade fuels. It differs from the ordinary type of stoker in that the fire bars are of the travelling type as is the case with L type chain grate stockers. Width of

stocker: 1550 mm. Length: 5410 mm. *TECHNOEXPORT*

02/002
Block of Flag Boiler Tubes

used for steam boilers (tubes with rolled on flags, 60x5 mm in dia). *TECHNOEXPORT*

02/003

Differential Mercury Pressure Gauge up to 200 atm

Differential pressure up to 800 mm of the mercury column. The millimetre scale slides vertically within a narrow range. The apparatus is mounted on a beam.

TECHNOEXPORT

02/004

Differential Pressure Gauge with Oblique Arm for pressures up to 200 atm. g.

Suitable for accurate measurement of small pressure differences. Range: Pressure difference of 20 to 60 mm. of Hg with an accuracy of 1 p. c.

TECHNOEXPORT

02/005

Semi-Automatic Sand Filter

two-stage type, for water filtration and softening. Simple and easy operation combined with perfect visibility are the main advantages which these filters provide even if they are coupled next to each other. Diameter of filter: 850 mm. Height of filter: 3500 mm. Weight without filling: 1000 kg.

TECHNOEXPORT

02/006

Hammer Mill, 14 t/hr

for drying, pulverizing and grading of bituminous and brown coal and lignite with a maximum moisture content of 35 p. c. and 0 to 15 mm in size. Maximum diameter: 20 mm. It is manufactured for outputs of 0,5 to 24 cu metres per hour according to the kind of fuel and the required fineness.

TECHNOEXPORT

02/007

Condenser - Steam Cooler

is a part of the steam boiler. It produces condensate from the saturated steam of the main cylinder which is required for cooling the superheated steam to the desired temperature. Cooling surface: 24 sq. metres. Condenser output: 5 to 8 tons per hour. Condenser pressure loss: 0.6 atm.

TECHNOEXPORT

02/008

Fully Automatic Oil Burner

intended for the combustion of thick or thin oils in smaller boiler units up to a capacity of 8 tons per hour. Capacity of burner: 250 kg. of oil per hour. Oil pressure: 25 atm. g. Combustion air: 60 mm. of the water column. Required viscosity of oil in the burner: 1,5 to 3^o E.

TECHNOEXPORT

02/009

Turbulence Burner PH 8

for the combustion of gas fuels with a short flame, especially earth gas. In addition to gas fired or steam boilers it can also be used for the conversion of annealing, drying or other kilns into gas fired units. Capacity of burner: 800 Ncu. metres per hour. Burner gas pressure: 5,000 mm. of the water column. Combustion air pressure in the burner: 80 to 100 mm. of the water column.

TECHNOEXPORT

02/010

Slag Removing Equipment (Deslagger)

It crushes large lumps of slag which are dropped down the furnace, and drives off the slag to the outlet. The slag is then discharged into a truck. Capacity: 1500 to 3000 kg of slag per hour (1 or 2 strokes per min.). Size: 800×800 mm.

TECHNOEXPORT

02/011

Air Heater 2,5×2,5×4 metres

for use with G230 boiler for heating air from 50 to 400 °C.

TECHNOEXPORT

02/012-013

Automatic Low-Pressure Boiler P 27

designed to speed up the ignition of pulverized fuels.

Automatic Low-Pressure Boiler P 27

for methanefiring. These economic steel boilers are designed for central heating. Low-grade fuels are burned on the grates of this boiler with an efficiency of about 80 p. c. and without producing smoke.

TECHNOEXPORT

02/014
Double Casing Backpressure Steam Turbine

Efficiency: 16,600 kW, 3000 r. p. m.
Inlet steam pressure: 69 atm. a., maximum pressure: 81 atm a. Temperature: 485 °C. Maximum temperature: 500 °C. *TECHNOEXPORT*

02/016
Runner Blades of a Condensing Turbine, 20 MW *TECHNOEXPORT*

02/017
High-Pressure Feed-Water Heater

(vertical, two-way type).
Heating surface of the tube nest: 100 sq. metres. Steam pressure: 30 atm. Water pressure: 150 atm. *TECHNOEXPORT*

02/018
Pressure Oil Burner for the burning of mazout, type TOH-6

The burner atomizes the liquid fuel in order to accelerate its gasifying; by means of a suitable control of the entering combustion air, it is perfectly mixed with the fuel in the burner. Maximum capacity: 600 kg. of oil per hour. *TECHNOEXPORT*

02/019
Vertical Spiral Casing of a Francis Turbine, Type F 8

to be directly coupled to a three-phase generator. It is designed to operated under a head of 260 metres. Water flow: 10 cu.meters per sec. Capacity: 23,300 kW, 500 r. p. m. *TECHNOEXPORT*

02/020
Hydraulic Speed Governor, Type HRO VI

for use with a vertical spiral casing Francis turbine. It is designed for the automatic regulation of the speed of the turbine. Capacity: 8000 kgm. *TECHNOEXPORT*

02/021
HRO VI Pumping Set

TECHNOEXPORT

02/022
VK 50 Condensing Steam Turbine

A double-casing type steam turbine of LZF system with five non-regulated bleeders for heating feed-water and for condensate, for use with generator, directly coupled to the turbine. Capacity: 50,000 kW, 3000 r. p. m. Steam pressure: 90 atm. a. *TECHNOEXPORT*

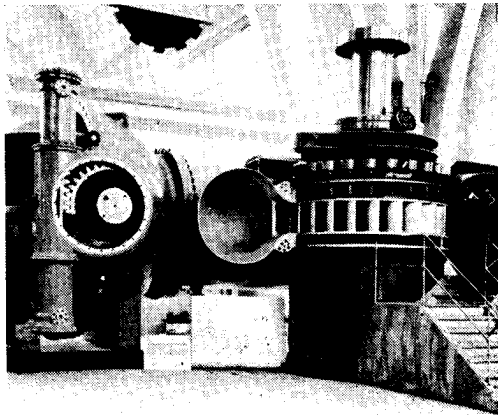
02/023
Rotor of a Steam-Gas Turbine of 4.4 MW capacity

The rotor is installed in a blast furnace gas turbine. The wheel which is made of ferric materials, is air cooled, the runner blades are made of POLDI AKNC steel. Inlet temperature of combustion gases: 750 c. 2.82 atm. a. Rotor speed: 8500. *TECHNOEXPORT*

02/024
Regulating Equipment of Steam Turbines for Medium Outputs

for use with condensing turbines, condensing turbines with one regulated bleeder and backpressure turbines with regulated backpressure. *TECHNOEXPORT*

02/019



02/025
Set of VK 50 Turbine Blades
TECHNOEXPORT

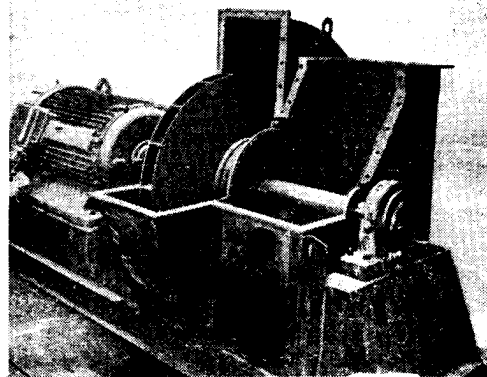
Standard reinforced, rubber-lined, armour, gas-tight or explosion-proof design.
STROJEXPORT

02/027
Air Turbo-Compressor,
6300 cu. metres per hour, 8 atm. a.

for industrial purposes. The turbo-compressor is driven by a 900 kW synchronous motor.
TECHNOEXPORT

02/028
Single-Wheel Turbo-Blower,
10,000 cu. metres per hour,
1.6 atm. a.

for use in chemical, food and other industries. The turbo-blower is driven by means of a 250 kW induction motor.
TECHNOEXPORT



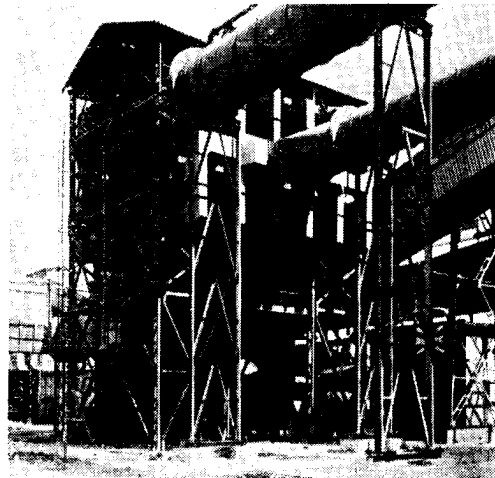
02/028

02/029
Unit Exhaustor Type JOVUN

designed for the removal of vapours and smoke inside closed vessels and steel structures, as well as for outdoor welding jobs where inlet hoses can be located in close proximity of the weld products.
TECHNOEXPORT

02/030
Industrial Vacuum Cleaner

intended for the cleaning of floors and machines of dust, fly ash, grinding dust, fibres and ashes; it is not suited for greasy and adhesive dust, chips, etc. Fan capacity: 350 to 385 cu. metres per hour.
TECHNOEXPORT



02/031
Unit Type SVAREX Exhaustor

It finds use in welding shops where the welder does not change his place. Fan capacity: 3360 cu. metres per hour.
STROJEXPORT

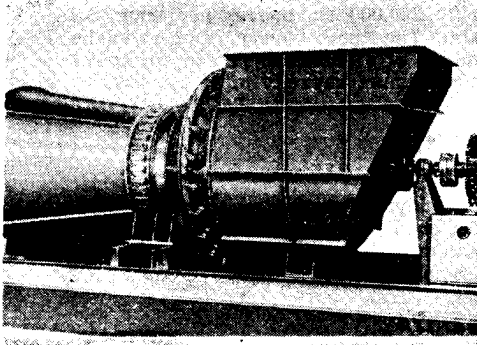
02/033
Dust Extractor

for steel-works, chemical or food industries, power plants, cement factories and heating plants. It consists of independent dust extracting units with own fans.
TECHNOEXPORT

02/032-036
Radial Flow Fans

low-, medium- or high-pressure type, with one or two inlets, and axial control, for air, smoke and other media.

02/034
Air-Conditioning Unit
TECHNOEXPORT



02/037

02/037
Axial Flow Fan, 1600 in dia.

The fan is used in boilers for blasting air into furnaces, in mines and tunnels for air-conditioning and in workshops for the extraction of dust. Capacity: 39 cu. metres per sec. Output of electric motor: 110 kW. Weight of fan including motor: 8400 kg. *TECHNOEXPORT*

02/038
Model of Vertical Axial Flow Fan

for use in mines and workshops. Capacity: 11,200 cu. metres per min. Electric motor output: 560 kW. Weight of fan including motor and accessories: 137 kg. *TECHNOEXPORT*

02/039
Electrostatic Separator for Air Cleaning

designed for the removal of solid particles and liquid admixtures in the atmosphere (various kinds of dust, germs, etc.). *TECHNOEXPORT*

02/161
Model of a New Type of Stoker

for coal dust and other fuels which are easily baked. 1:20 scale. *TECHNOEXPORT*

02/162
Model of a Granulating Boiler

Capacity: 125 tons per hour, 100 atm. g. The boiler is suitable for burning grown-

trough brown coal with a calorific value of 2200 to 2500 kcal/kg, 20 p. c. ash. and 40 p. c. water-content.

TECHNOEXPORT

02/163
Model of a Cyclone Fired Boiler,

for burning bituminous coal of inferior quality and 3080 kcal/kg heating value. Capacity: 75 tons per hour, 40 atm. g., 420 °C. The slag leaves the fire space in a molten state. Computed boiler efficiency: 87.5 p. c. As against standard boilers for unified fuels, this type of boiler provides an economy of 3000 tons of coal p. a. In addition, various economies are obtained in operation due to lower costs of operation and removal of fly-ash and slag. *TECHNOEXPORT*

02/164
Model of G 230 Granulation Boiler with pulverized coal furnace for burning low-grade fuels

The boiler is designed for block-assembly. Rated capacity: 230 tons per hour. Economical output: 280 tons per hour. Maximum working pressure: 100 atm. Working pressure: 96 atm. Maximum operating temperature: 545 °C. *TECHNOEXPORT*

02/165
Model of G 330 Steam Boiler

designed for burning brown coal with a heating value of 2200 ± 200 kcal/kg and maximum 45 p. c. moisture content. Rated capacity, 333 tons per hour. Maximum working pressure: 148 atm. Maximum operating temperature: 565 °C. *TECHNOEXPORT*

02/167
Automatic Katex Flow-Type Filter with continuous regeneration

This filter is designed for uninterrupted softening of water. While two katex filters of the same size are required for uninterrupted operation of other types of filters only one automatic katex filter can be used for the same purpose. *TECHNOEXPORT*

02/168

Model of a Radiant Steam Boiler

The oil fired boiler has a capacity of 125 tons per hour, 75 atm. g., 525 °C of superheated steam. The boiler is provided with a complete oil economy equipment, including storage tanks, an oil pressure heating station and a repumping equipment for discharging tank wagons. *TECHNOEXPORT*

02/169

Regeneration Boilers for Burning Sulphate Waste Lyes

The panel illustrates the sulphate regeneration process.

Model of Regeneration Boiler

for a sulphate cellulose plant. Capacity: 75 tons of perfectly dry reed cellulose per 24 hours, including 25 tons of steam at a pressure of 40 atm. per hour. *TECHNOEXPORT*

02/171

Model of a 100 MW Condensing Steam Turbine

Three casing type, with double exhaust outlet for deep vacuum utilization. Steam pressure: 135 atm. Temperature: 555 °C. Reheated to 540 °C. Vacuum: 0.035. *TECHNOEXPORT*

02/172

Model of a Packaged Power Plant, 750 kW

A new type of transportable assembly units of 1500 kW and 750 kW capacity, designed to supply remote places with electric power. *TECHNOEXPORT*

02/173

Refrigerating Turbo-Compressor for Propane-Propylene Mixture

for use in the chemical and food-processing industries. Capacity: 3,200,000 kcal/hour. Drive by means of a 2200 kW synchronous motor. *TECHNOEXPORT*

02/174

Air Turbo-Blower

suitable for the largest blast furnaces with a capacity of 1500 cu. metres. Out-

put: 240,000 cu. metres per hour, 3.8 atm. The turbo-blower is operated by means of a condensing steam turbine of a maximum capacity of 17,000 kW. *TECHNOEXPORT*

02/175

Separator, 315 mm. in dia.

(Multidyne Type)
designed for the separation of all organic and inorganic dusts, with basalt lining. *CERAMICS*

02/176

Various Basalt Hollow Blocks

with metal coating.
Arch, combined arch, pipes, Y and T pieces for various systems of pneumatic or hydraulic transport of hard materials with sharp edges, various castings, hollow blocks and floor-tiles, a straight pipe, 80 in dia. with welded plate coating, a basalt pipe with steel plate coating. *CERAMICS*

02/177

Steel Arch,

blasted for 2160 hours.

Basalt Arch,

coated, after 20,400 hours in operation showing only a minimum of wear. *CERAMICS*

02/178

Redler Conveyor

for handling heavy materials, such as coke, ores, etc.

Y-piece of a Trough *CERAMICS*

02/179

Model of a Double-Drum Steam Boiler, 20 T/hr., 40 atm., 450 °C of Superheating, with Conveyor Type Stoker

The boiler meets even the heaviest operating requirements. The boiler is plated and provided with a light brick lining, carried in tubes in various sections of the boiler. Rated boiler capacity: 20 tons per hour. Maximum working overpressure: 39 atm. g. Maximum working temperature: 450 °C. Feed-water: 105 °C. *TECHNOEXPORT*

03 INDUSTRIAL VALVES

03/040-042

Globe Valves,

Nominal Pressure

400 kg/sq. cm (5600 lb/sq. in.), welded or flanged type, nominal sizes 8 mm, 10 mm, 15 mm, 25 mm, 40 mm, 50 mm (3/8", 1/2", 1", 1 1/2"2"). Inserted disk (cone), rising spindle, stationary. Used for high-pressure pumps. Up to the nominal sizes 40 but with nominal pressure of 540 they serve as equipment of hydraulic presses. STROJEXPORT

03/043-047

Globe Valve, Angle Type,

Nominal Pressure 325 kg/sq.cm (4875 lb/sq. in.). Flange type, nominal sizes from 3 to 120 mm (4.5"), up to a temperature of 200 °C - valves made of carbon steel - and 510 °C (950 °F) - valves made of alloy steel. Used for chemicals, such as N, H, NH₃ STROJEXPORT

03/048

"Y" Valve,

made of 99,8 pure aluminium; used for strong nitric acid, concentrated, up to a pressure of 5 kg/sq. cm (71 lb/sq. in.) and a maximum temperature of 90 °C (194 °F). The rising spindle is controlled by a handwheel. Yoke type. STROJEXPORT

03/049

High-Speed Valve,

mounted to the main steam pipe of 12 MW turbines, and above. By means of this valve, turbines are safeguarded against failure of the starting valve. Nominal size 150 mm (6"), 200 mm (8") or 250 mm (10"). STROJEXPORT

03/050

Gate Valve for Gases,

Nominal pressure 64 kg/sq. cm (900 lb/sq.in.), yoke type or with stem (spindle) with inside screw. Used for pipe lines and the distribution of coke gas, natural or coal gases. Parallel, cylindrical flange type, handwheel controlled. STROJEXPORT

03/051

Gate Valve for Hydraulic Deslagging,

Nominal Pressure 10 kg/sq.cm (150 lb/sq. in.), flange type. The sealing surfaces of the closure which are welded on by hard metal, and the basalt wedge resist excessive wear during transport of pulverised slag from boiler furnaces by means of pressure water. STROJEXPORT

03/052

Gate Valve with Electric Drive

used in the metallurgical industry, for smelting gas, generator gas, coke or mixed gas pipe lines, at a maximum overpressure of 1,5 kg/sq. cm (21 lb/sq. in.) and maximum temperature of 400 °C (752 °F). STROJEXPORT

03/053

Steam Trap, Valve Type,

welded. The valve closure is controlled by means of a bell type plunger. Used for the automatic draining of the condensate from horizontal pipes. Manufactured for nominal pressure of 40, 64 and 100. STROJEXPORT

03/054

Main Closure of Boring Bar Probes,

designed to avoid eruptions. Welded. For pressures up to 70 kg/sq.cm (995 lb/in.). The sealing creates two jaws around the boring bar which are compressed by means of spindles and handwheels. STROJEXPORT

03/055

Reducing Valve with Direct Regulation,

Nominal Pressure 25 kg/sq. cm (350 lb/sq. in), welded, provided with a spring load. The amount of reduced pressure is determined for various pressure ranges. It is used for reducing steam pressure down to 20 kg/cq.cm (300 lb/sq.in.) and a temperature of 400 °C (752 °F). STROJEXPORT

03/056

Feed Valve, Regulation Type,

Nominal Pressure 64 kg/sq. cm (900 lb/sq. in.), provided with two pistons with

cylindrical disks (cones) and regulating holes. It is controlled by means of a thermostat, and serves for the regulation of water, fed into the steam boilers, up to a pressure of 64 kg/sq. cm (900 lb/sq. in.) and a temperature of 300 °C (572 °F). *STROJEXPORT*

03/057
Water Level Gauge with Coloured
up to a pressure of 120 kg/sq. cm (1700 lb/sq. in.). The design of the holder enables the inclined glasses to create

a prismatic space, trapezoidal in cross-section. With the aid of an illuminating equipment and a filter the water column appears green, the steam column red. *STROJEXPORT*

03/058
High-Pressure Water Level Gauge,
illuminated, with coloured indication. The glass rollers are arranged against each other in two rows, one of them being offset by half a pitch. Suitable for the highest pressures. *STROJEXPORT*

VALVES FOR POWER PLANTS

03/059
Globe Valve, Yoke Type,
Nominal Pressure 40 kg/sq. cm (600 lb/sq. in.), straight, flanged, with screwed, rising stem (spindle) and handwheel. Suitable for cold or hot water, steam and gases up to 40 kg/sq. cm (600 lb/sq. in.) and a temperature of 450 °C (841 °F). Supplied also with foot as well as regul. cone. *STROJEXPORT*

03/060
Globe Valve,
Nominal Pressure 64 and 100 kg/sq. cm (900 and 1400 lb/sq. in.). Straight, flanged, yoke and angle type valve with outside screw, controlled by means of a handwheel. Available for nominal pressures of 64 and 100 kg/sq. cm (900 and 1400 lb/sq. in.) and various sizes up to 40 mm (1½") included. They are of metal. Suitable for water, steam and gases up to a maximum of 500 °C (932 °F). *STROJEXPORT*

03/061
Globe Valve, Yoke Type,
Nominal Pressure 200 kg/sq. cm (2800 lb/sq. in.). Welded, special design with spring mounted stem. Suitable for liquids, steam and gases up to a temperature of 400 °C (752 °F). *STROJEXPORT*

03/062-063
Globe Valve,
Nominal Pressure 250 kg/sq. cm (3500 lb/sq. in.). Flanged and welded-on type, up to a maximum temperature of 525 °C (976 °F) with rising stem, controlled by

a handwheel. Nominal sizes of 15 to 50 mm (½ to 2"). *STROJEXPORT*

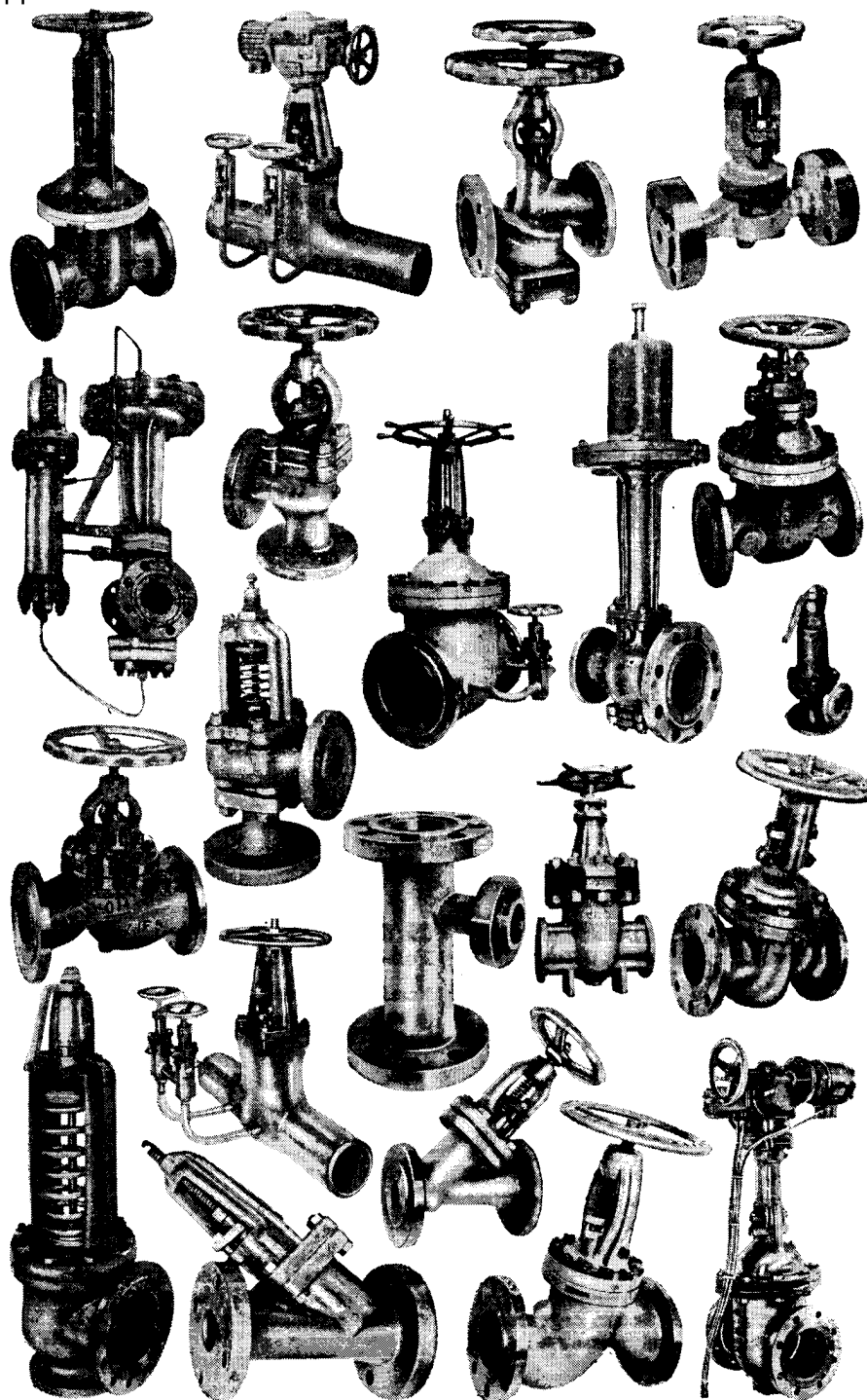
03/064
Globe Valve,
Nominal Pressure 250 kg/sq. cm (3500 lb/sq. in.). Nominal Size 8 mm. Flanged and welded-on type, suitable for a maximum temperature of 525 °C (976 °F) as an accessory for measuring instruments (pressure gauges, etc.). *STROJEXPORT*

03/065
Globe Valve,
Nominal Pressure 250 kg/sq. cm (3500 lb/sq. in.), for superheated steam and measuring diaphragms of steam boilers. *STROJEXPORT*

03/066
Non-Return Valve, Nominal Pressure
160 kg/sq. cm (2300 lb/sq. in.), with airtight bonnet. The seating surfaces of the closure are welded with hard alloy. Available in flange and welded-on types. Suitable for water and steam up to a working pressure of 525 °C (976 °F). *STROJEXPORT*

03/067
Vertical Non-Return Valve with Automatic By-Pass
suitable for pressures of 6 to 250 kg/sq. cm (85 to 3500 lb/sq. in.) and nominal sizes of 70 to 200 mm (2¾ to 8"), flanged type. The welded sealing surfaces of the seats in the body and disk are made of stainless steel. The movement of the automatic by-pass closure is connected to the disk. *STROJEXPORT*

Approved For Release 2007/08/22 : CIA-RDP80T00246A002500390002-0



Approved For Release 2007/08/22 : CIA-RDP80T00246A002500390002-0

03/068

Cast-steel Gate Valve, Yoke Type,

Nominal Pressure 16 kg/sq.cm (230 lb/sq.in), flange type, oval, with solid wedge. Long distance control by means of handwheel or electric drive. Also available for nominal pressures of 6 and 10 kg/sq. cm (85 and 150 lb/sq. in.).
STROJEXPORT

03/069

Yoke Type Gate Valve,

Nominal Pressure 25 kg/sq. cm (350 lb/sq. in.), cylindrical, flanged, with spring wedge. Steel. Sizes above 150 mm (6") manufactured with split wedge. The stem (spindle) is carried in a ball bearing. Suitable for water steam, water, nonaggressive gases and nominal pressures of 40, 64 and 100 kg/sq. cm (600, 900 and 1400 lb/sq. in.). Sizes of 40 to 500 kg/sq. cm (1¹/₂ to 20 lb/sq. in.). Maximum working temperature 550 °C (1022 °F).
STROJEXPORT

03/070-071

High-Pressure Gate Valve,

Nominal Pressures 160 and 250 kg/sq.-cm (2300 and 3500 lb/sq.in.), yoke type with pressure seal bonnet and spring mounted wedge. Flange and welded type connection. Handwheel with shock mechanism. Also available with long distance control. Suitable for water steam up to a working temperature of 525 °C (976 °F).
STROJEXPORT

03/072

Steam Trap -

96 atm., 525° C (976° F), made of forged T section, nominal size 200 mm (8"), nominal pressure 160 kg/sq. cm (2300 lb/sq. in.) at a temperature of 525 °C (976 °F) , with 3 gate valves, 200 mm (8") in size and 160 kg/sq.cm (2300 lb/sq. in) nominal pressure et a temperature of 525 °C (976 °F) and by-pass 25 mm (1") in size and 250 kg/sq. cm (3500 lb/sq. in.) nominal pressure at a temperature of 525 °C (976 °F). The gate valves are provided with 25 kgm long distance control, or can be push-button or manually operated. *STROJEXPORT*

03/073

Mix Gate Valve

designed for mixing steam or vapours. Available for nominal pressures of 64,

100, 160 and 250 kg/sq. cm (900, 1400, 2300 and 3500 lb/sq. in.). Three-way, flanged, right-hand or left-hand type; the third flange is designed to carry the steam cooler. *STROJEXPORT*

03/074

Low-Load Weight Relief (Safety) Valve,

Nominal Pressure 40 kg/sq. cm (600 lb/sq. in.), flange angle type. The valve automatically opens as soon as the given pressure is exceeded. Suitable for water, liquids, steam and gases and pressures up to 16 kg/sq. cm (230 lb/sq. in.) at a temperature of 400 °C (752 °F).
STROJEXPORT

03/075

Low-Load Weight Relief (Safety) Valve,

Nominal Pressure 100 kg/sq. cm (1400 lb/sq. in.), same type as above. For pressures up to 42 kg/sq.cm (628 lb/sq. in.) and a maximum temperature of 400 °C (752 °F). *STROJEXPORT*

03/076

Full-Weight Relief (Safety) Valve,

Nominal Pressure 100 kg/sq. cm (1400 lb/sq. in), double with cover, suitable for draining larger quantities of liquids. Designed for steam boilers and pressures up to 42 kg/sq.cm (628 lb/sq.in.) at a maximum temperature of 400 °C (752 °F).
STROJEXPORT

03/077

Full-Weight Relief (Safety) Valve,

Nominal Pressure 250 kg/sq. cm (3500 lb/sq. in.), same as above. Up to 110 kg/sq. cm (1550 lb/sq. in. and a temperature of 400 °C (752 °F).
STROJEXPORT

03/078

Low-Weight Relief (Safety) Valve, Spring Type,

Nominal Pressure 100 kg/sq. cm (1400 lb/sq. in.), flange, angle-type, with cooling cover. Suitable for higher temperatures for steam, air and gases up to 100 kg/sq. cm (1400 lb/sq. in.) and a maximum temperature of 400 °C (753 °F).
STROJEXPORT

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TECHNOEXPORT
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The advertisement features a vertical column of five circular icons on the left side: a hand holding a tool, a gear with 'HC' inside, a triangle with '18' and '28' and a hammer/saw icon, a gear with 'KRALOVOPOLSKA BRNO' around it, and a circle with 'B' inside. A large white arrow points upwards from the bottom right towards the text.

03/079

Full-Weight Relief (Safety) Valve, Spring Type,

Nominal Pressure 40 kg/sq. cm (600 lb/sq. in.), angle-type, flanged, double; two self-acting relief valves with common inlet and outlet. For steam, air and gases and pressures of 40 kg/sq. cm (600 lb/sq. in.) at a maximum temperature of 300 °C (572 °F).

STROJEXPORT

03/080

High-Speed Relief (Safety) Valve with Cooling Cover,

Nominal Pressure 250 kg/sq. cm (3500 lb/sq. in.), spring- and angle-type. The cooling extension protects the spring against excessive heat. The design enables rapid opening and draining of an adequate quantity of liquid. Suitable for higher temperatures of steam boilers and pressures up to 125 kg/sq. cm (1750 lb/sq. in.) at a maximum temperature of 500 °C (932 °F).

STROJEXPORT

03/081

Reducing Valve, Steam Loaded,

Nominal Pressure 25 kg/sq. cm (350 lb/sq. in.), with straight regulation, directly with diaphragm steam load. Suitable for reducing the pressure of steam and non-aggressive gases, for 25 kg/sq. cm (350 lb/sq. in.) at a maximum temperature of 400 °C (752 °F).

STROJEXPORT

03/082

Reducing Valve, Spring Loaded,

direct regulation, straight, with two seats and metal diaphragms. Designed for reducing steam and gas pressures to 125 kg/sq. cm (1750 lb/sq. in.) and a maximum temperature of 400 °C (752 °F). Typified valve for blowing boilers at a reduced pressure of 15 to 25. kg/sq. cm (220 to 350 lb./sq. in.).

STROJEXPORT

03/083

Relief Valve, Diaphragm Type,

Nominal Pressure 16 kg/sq. cm (230 lb/sq. in.), with direct regulation and spring load. Suitable for reducing steam and gas pressures to 16 kg/sq. cm (230 lb/sq. in.) at a maximum temperature of 200 °C (392 °F).

STROJEXPORT

03/084

Reducing Valve,

Nominal Pressure 64 kg/sq. cm (900

lb/sq. in.), with direct regulation, straight pistontype, two seats with adjustable weight. Suitable for reducing steam or gas pressure to 64 kg/sq. cm (900 lb/sq. in.) at a temperature of 400 °C (752 °F).

STROJEXPORT

03/085

Lever Loaded Safety Valve,

with indirect regulation, straight, one seat. Operated by an automatic, hydraulic, lever type pressure cylinder, controlled by a pressure regulator, or handwheel. Suitable for reducing steam or gas pressures to 100 kg/sq. cm (1400 lb/sq. in.) at a temperature of 400 °C (752 °F).

STROJEXPORT

03/086

Lever Loaded Safety Valve, Double Seat Type,

straight, with indirect regulation and two seats. Operated by an automatic, hydraulic, lever type pressure cylinder, controlled by a pressure regulator, or handwheel. Suitable for reducing steam and gas pressures to 100 kg/sq. cm (1400 lb/sq. in.) at a temperature of 400 °C (752 °F).

STROJEXPORT

03/087

Reducing Station

for reducing steam at a rate of Q = 6.5 tons/hr. at a pressure of 16 kg/sq. cm (230 lb/sq. in.) to 12 kg/sq. cm (178 lb/sq.) and from a temperature of 380 °C (716 °F) to 200 °C (932 °F). A complete functional mechanism including automatic oil regulation.

STROJEXPORT

03/088

Blow-Off Valve,

Nominal Pressure 100 kg/sq. cm (1400 lb/sq. in.), flanged, angle-type with renewable seat and disk. Used for interrupted blow-off of steam boilers at various working pressures.

STROJEXPORT

03/089

Blow-Off Valve

Nominal Pressure 160 kg/sq. cm (2300 lb/sq. in.), nominal sizes 15, 25 and 40 mm ($\frac{1}{2}$, 1 and $1\frac{1}{2}$ "); flanged and welded-on type. The valve is opened and closed by means of a large handwheel. By applying a small handwheel, impurities from the seating surfaces are eliminated.

STROJEXPORT

03/090

Blow-Down Valve,

straight, flanged type, with renewable seat. It serves for permanent blow-down of steam boilers. The lift can be adjusted on the dial. *STROJEXPORT*

03/091

Blow-Down Valve,

Nominal Pressure 250 kg/sq. cm (3500 lb/sq. in.), flanged or welded-on type. The maximum drained quantity is determined by means of the pointer, fitted to the stem in accordance with the indicated lift. *STROJEXPORT*

03/092

Steam Valve,

Nominal Pressure 250 kg/sq. cm (3500 lb/sq. in.), flanged, designed for steam condensation. *STROJEXPORT*

03/093

Steam Valve - Gate Valve Type

The gate valve closure is controlled by a ball plunger. It is used for automatic draining of condensate from horizontal piping. Manufactured for nominal pressures of 16, 25, 40 and 100. *STROJEXPORT*

03/094

High-Pressure Steam Valve

provided with pressure sealing cover. The valve closure is controlled by means of a bell type plunger. The valve is used for draining condensate from horizontal piping at nominal pressures of 160 and 250 kg/sq. cm (2300 and 3500 lb/sq. in.) and a temperature of 550 °C (1022 °F). It is fitted with a deaerating valve. *STROJEXPORT*

03/095

Swing Check-Valve

avoids return movement of steam in the piping. Flanged, larger nominal sizes supplied with by-pass. Available for nominal pressures of 10, 16, 25, 40, 64, 100 kg/sq. cm (150, 230, 350, 600, 900, 1400 lb/sq. in.). Made of cast-iron, cast-steel or stainless steel. *STROJEXPORT*

03/096

Sealing Compensator

designed for adjusting mechanical or thermal pipe dilation. Available for nominal pressures of 10, 16, 25 and 40

kg/sq. cm (150, 230, 350 and 600 lb/sq. in.) in sizes of 40 to 700 mm (1½ to 28 in.) of cast-iron (nom. pressures of 10, 16 kg/sq. cm - 150, 230 lb/sq. in.) and sizes of 40 to 500 mm (1½ to 20 in.) of cast-steel (nom. pressures of 16, 25, 40 kg/sq. cm - 230, 350, 600 lb/sq. in.). *STROJEXPORT*

03/097

**High-Pressure Water Gauge
"Glas-Mica"**

for steam generators up to an overpressure of 90 kg/sq. cm (1350 lb/sq. in.). Relief glass. *STROJEXPORT*

03/098

**High-Pressure Water Gauge
"Glas-Mica" - Relieved**

for steam generators up to an overpressure of 125 kg/sq. cm (1750 lb/sq. in.). By means of a holder of special design, absolutely uniform stress on glass during operation is ensured. Relief glass. *STROJEXPORT*

03/099

Long Distance Liquid Level Gauge

Auxiliary gauge, remote controlled from the boiler drum. Maximum working overpressure 125 kg/sq. cm (1750 lb/sq. in.). Mounted between the direct water gauge and connecting flanges. *STROJEXPORT*

03/100

Reflexion Water Level Indicator

Nominal Pressure 40 kg/sq. cm (600 lb/sq. in.), for steam boilers, inclinable, provided with high-speed valves and deslagging valve. *STROJEXPORT*

03/101

Feed Valve,

Nominal Pressure 64 kg/sq. cm (900 lb/sq. in.) and a maximum temperature of 300 °C (572 °F). Automatic regulation. *STROJEXPORT*

03/102

Feed Valve,

Nominal Pressure 160 kg/sq. cm (2300 lb/sq. in.), with two seats and regulation holes. The valve controls the supply of boiler feed-water up to a pressure of 160 kg/sq. cm (2300 lb/sq. in.) and a maximum temperature of 300 °C (572 °F). Automatic regulation. *STROJEXPORT*

MECHANIZED CONTROL OF VALVES

03/103 Globe Valve

Nominal Pressure 40 kg/sq. cm (600 lb/sq. in.), straight, flanged type. It is provided with P 500 (P 2000) straight-lined electric drive and standard accessories. Suitable for water, steam and gases in inaccessible places, or for remote control. STROJEXPORT

03/104 Gate Valve with Electric Drive

designed for inaccessible places where mechanized control from one point is required. Available for pressures of 6, 10, 16, 25, 40, 64 and 100 kg/sq. cm (85, 150, 230, 350, 600, 900 and 1400 lb/sq. in.) in all nominal sizes. Including standard accessories for a. c. STROJEXPORT

03/105 Gate Valve with Electric Drive

Nominal Pressure 6 kg/sq. cm (85 lb/sq. in.), for cold or hot water, low-pressure steam and gases. Supplied with electrical equipment for a. c. STROJEXPORT

03/106 Gate Valve - Yoke Type with Electric Drive

and Cleaning Cover, Nominal Pressure 10 kg/sq. cm (150 lb/sq. in.) designed for impure water, liquids and gases with sedimenting compounds. Available with handwheel, for remote control, manual or mechanized electric drive. STROJEXPORT

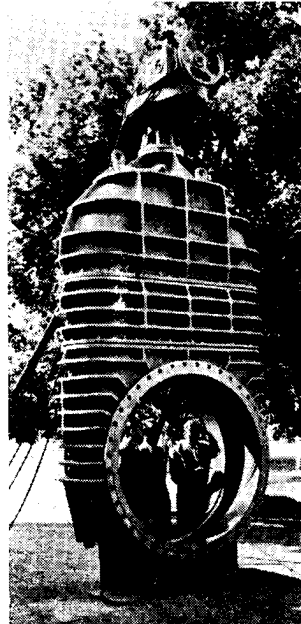
03/107 Hydraulic Gate Valve

designed, above all, for water-works, for mechanized or remote control. Available for 6, 10, 16 kg/sq. cm (85, 150, 230 lb/sq. in.) in sizes of 80 to 1200 (3 to 48 in.). The valve is held in position by means of a locking lever. STROJEXPORT

03/108 Stand for Remote Control of Valves

Supplied with 25 kgm or 50 kgm electric drive for a. c. voltages of 3×220/

380 V, 3×500 V, for valves with hand-wheel or electric by-pass control or without by-pass. STROJEXPORT



03/104

03/109 Straight Globe Valve of Stainless Steel

flanged, yoke type with rising stem. Suitable for aggressive liquid and gases up to pressures of 16 and 40 kg/sq. cm (230 and 350 lb/sq. in.) and a maximum temperature of 300 °C (572 °F). STROJEXPORT

03/110 Straight Globe Valve of Stainless Steel

Nominal Pressure 16 kg/sq. cm (230 lb/sq. in.), flanged, yoke type, for chemically active chemicals, especially used in the food industry. STROJEXPORT

VALVES FOR CHEMICALS

03/111

Straight Globe Valve of Non-Ferrous Metals

flanged, yoke type with rising stem (spindle) and handwheel. Suitable for slightly aggressive liquid up to a pressure of 16 kg/sq. cm (230 lb/sq. in.) and a temperature of 200 °C (392 °F).

STROJEXPORT.

03/112

Straight Globe Valve for Ammonia

Nominal Pressure 25 kg/sq. cm (350 lb/sq. in.), flange type, with rising stem (spindle) and inside screw, handwheel controlled. Suitable for liquid ammonia and ammonia gas. Up to nominal size 50 they are produced forged.

STROJEXPORT

03/113

Angle-Type Globe Valve for Ammonia

Nominal Pressure 25 kg/sq. cm (350 lb/sq. in.), flanged, with rising stem (spindle) and inside screw. Suitable for liquid ammonia and ammonia gas. Up to a size of 50 mm (2") forged, larger nominal sizes are made of cast-steel.

STROJEXPORT

03/114

Straight Non-Return Valve for Ammonia

Nominal Pressure 25 kg/sq. cm (350 lb/sq. in.), flanged with cover. It eliminates automatically return-flow. Cast-steel, suitable for liquid ammonia and ammonia gas.

STROJEXPORT

03/115

Angle-Type Non-Return Valve for Ammonia

Nominal Pressure 25 kg/sq. cm (350 lb/sq. in.), flanged with cover. Return-flow is automatically eliminated. Cast-steel. Suitable for liquid ammonia and ammonia gas.

STROJEXPORT

03/116

Straight Regulation Valve for Ammonia

Nominal Pressure 25 kg/sq. cm (350 lb/sq. in.), flanged, with rising stem (spindle) and inside screw, handwheel

controlled. Suitable for liquid ammonia and ammonia gas. *STROJEXPORT*

03/117

Sample Valve

Nominal Pressure 40 kg/sq. cm (600 lb/sq. in.), angle-type, welded, rising stem, moving cone. It is intended for the flux of aggressive materials.

STROJEXPORT

03/118

"Y" Valve of Stainless Steel

straight, flanged type with rising stem and handwheel. Suitable for aggressive liquids and gases up to a pressure of 16 kg/sq. cm (230 lb/sq. in.) and a temperature of 300 °C (572 °F).

STROJEXPORT

03/119

"Y" Valve, Rubber-Lined

flanged, yoke type with rising stationary stem (spindle) and handwheel. All surfaces which are in contact with the liquid, are rubber-lined to meet the properties of the liquid. Suitable for chemicals, such as concentrated acids and lyes.

STROJEXPORT

03/120

Straight Non-Return Valve of Stainless Steel

flanged. Return-flow is automatically avoided. The valve is designed for aggressive liquids and gases up to 16 or 40 kg/sq. cm (230 or 350 lb/sq. cm) and a temperature of 300 °C (572 °F). Straight or angle-type. *STROJEXPORT*

03/121

Head Gate Valve

Nominal Size 15 up to 50 mm (1/2 to 2"), screw or flange type, for nominal pressures of 6, 10, 16 and 25 kg/sq. cm (85, 150, 230 and 350 lb/sq. in.). The valve is made of cast-iron or non-ferrous metals. It is suitable for hot or cold water, liquids and gases.

STROJEXPORT

03/122

Welded Gate Valve, Yoke Type

Nominal Pressure 16 kg/sq. cm (230 lb/sq. in.). The valve is a prototype of

economic design. The split wedge on the ball ensures the reliability of the closure. *STROJEXPORT*

03/123

Gate Valve for Thick Liquids

Nominal Pressure 2.5 kg/sq. cm (35 lb/sq. in.), double, flat, yoke type with knife cover plate. The valve is entirely made of non-ferrous metals. It is suitable for viscous and thick liquids with small particles of impurities or dissolved materials up to a working over-pressure of 2.5 kg/sq. cm (35 lb/sq. in.) and a temperature of 150 °C (302 °F). *STROJEXPORT*

03/124

Gate Valve for Thick Liquids

Nominal Pressure 6 kg/sq. cm (85 lb/sq. in.), flanged, plate type, with one side sealing only. Nominal sizes 80 to 250 kg/sq.cm (1200 to 3500 lb/sq. in.), with rising stem, handwheel operated. Suitable for thick materials up to a working over-pressure of 6 kg/sq. cm (85 lb/sq. in.) and a temperature of 120 °C (217 °F). *STROJEXPORT*

03/125

Rubber-Lined Gate Valve

Nominal Pressure 6 kg/sq.cm (85 lb/sq. in.), designed for chemicals, i.e. acids and lyes. All surfaces which are in contact with the liquids, are rubberlined. *STROJEXPORT*

03/126

Rubber-Lined Gate Valve

Nominal Pressure 10 kg/sq. cm (150 lb/sq. in.), see above. *STROJEXPORT*

03/127

Relief (Safety) Valve of Stainless Steel

Nominal Pressure 16 kg/sq. cm (230 lb/sq. in.), low-weight, spring, angle-type with relief lever. Suitable for aggressive liquids, vapours and gases up to pressure of 13 kg/sq. cm (192 lb/sq. in.) and maximum temperature of 200 °C (392 °F). *STROJEXPORT*

03/128

Stuffing Cock

Nominal Pressure 16 kg/sq. cm (230 lb/sq. in.), flanged, straight or tree-way type (T or L section) in sizes of 15 to 150 mm (1/2 to 6 in.) for nominal pressures

of 6, 10 and 16 kg/sq. cm (85, 150, 230 lb/sq. in.). Suitable for liquids, vapours and gases. Designed to improve the sealing. Executed of cast iron as well as non-ferrous metals. *STROJEXPORT*

03/129

Stuffing Cock

Nominal Pressure 10 kg/sq. cm (150 lb/sq. in.), made of stainless steels. Flanged, straight or three-way type (T or L sections) in sizes of 15 to 150 mm (1/2 to 6 in.). Suitable for aggressive chemicals. *STROJEXPORT*

03/130

Cock with Heating Jacket

Nominal Pressure 10 kg/sq. cm (150 lb/sq. in.), flanged, straight or three-way type with T section. Steam or oil of a maximum temperature of 150 °C (302 °F) and 2.5 kg/sq.cm (35 lb/sq.in.) pressure, passes through the heating jacket. Suitable for solidifying materials up to a pressure of 10 kg/sq. cm (150 lb/sq. in.) and a maximum temperature of 200 °C (392 °F). *STROJEXPORT*

03/131

Cock with Relief Disk (Cone)

Nominal Pressure 25 kg/sq. cm (350 lb/sq. in.). Before adjusting the disk, it is lifted by means of the lever. After setting the desired opening position, the disk is pressed again into the body. Available in straight, or flange type, for aggressive liquids of various concentration. *STROJEXPORT*

03/132

Horizontal Sight-Window

Nominal Pressure 16 kg/sq. cm (230 lb/sq. in.), made of non-ferrous metals. By means of the sight-window, the condition or flow of less aggressive liquids are ascertained. Maximum pressure 16 kg/sq.cm (230 lb/sq.in.). Flanged, with two sight-glasses. *STROJEXPORT*

03/133

Horizontal Sight-Window

Nominal Pressure 16 kg/sq. cm (85 lb/sq. in.), made of aluminium. By means of this sight-window, the condition or flow of less aggressive liquids is ascertained to a maximum pressure of 6 kg/sq.cm (85 lb/sq.in.). *STROJEXPORT*

03/134

Horizontal Sight-Window

Nominal Pressure 16 kg/sq. cm (230 lb/sq. in.), made of stainless steel. By means of this sight-window, the condition or flow of aggressive liquids up to a maximum pressure of 16 kg/sq. cm (230 lb/sq. in.) are ascertained.

STROJEXPORT

03/135

Vertical Sight-Window

Nominal Pressure 16 kg/sq. cm (230 lb/sq. in.), made of cast-iron. The inner surfaces are rubber-lined to resist concentrated acids and lyes.

STROJEXPORT

03/136

Level Gauge with Valve Heads

Nominal Pressure 16 kg/sq. cm (230 lb/sq. in.), made of stainless steel, with protective tube. Suitable for chemicals.

STROJEXPORT

03/137

Level Gauge with Cock-Stuffing Heads

Nominal Pressure 16 kg/sq. cm (230 lb/sq. in.), made of bronze, with protective tube. Suitable for liquids, chemically active.

STROJEXPORT

MISCELLANEOUS VALVES

03/138

Globe Valve

Yoke Type, Nominal Pressure 16 kg/sq. cm (230 lb/sq. in.), straight, flanged with rotating stem and handwheel. Suitable for cold or hot water, steam and gases up to 16 kg/sq. cm (230 lb/sq. in.) and a maximum temperature of 200 °C (392 °F). Angle-type valves and with regulation disk are also supplied.

STROJEXPORT

03/139

Straight Non-Return Valve

Nominal Pressure 16 kg/sq. cm (230 lb/sq. in.), flange type. Return-flow is automatically avoided. Suitable for water, liquids, steam and gases up to a temperature of 200 °C (392 °F). Also available for higher nominal pressures.

STROJEXPORT

03/140

Non-Return Valve, Angle-Type

Nominal Pressure 16 kg/sq. cm (230 lb/sq. in.), flange type. Return-flow is automatically avoided. Suitable for water, liquids, steam and gases up to a temperature of 200 °C (392 °F).

STROJEXPORT

03/141

Globe Valve, Cross-Type

Nominal Pressure 40 kg/sq. cm (600 lb/sq. in.), flanged, yoke- and three-way-type, with handwheel. When opened, the liquid is divided into the two outlets. Suitable for water, liquids, steam and gases.

STROJEXPORT

03/142

Gate Valve, Yoke Type, for Hot Crude Oil

Nominal Pressure 16 kg/sq. cm (230 lb/sq. in.). The valve finds use in oil refineries. Carbon steel, alloy- or stainless-steel.

STROJEXPORT

03/143

Gate Valve for Hot Crude Oil

Nominal Pressure 40 kg/sq. cm (600 lb/sq. in.), cylindrical, flanged, with fixed wedge, yoke type with handwheel. Manufactured in carbon, alloy or stainless steel.

STROJEXPORT

03/144

Gate Valve for Hot Crude Oil

Nominal Pressure 160 kg/sq. cm (2300 lb/sq. in.), cylindrical, flanged, with fixed wedge, yoke type with handwheel. Up to 450 °C (842 °F), the wedges and seats are not welded-on. Manufactured in carbon, alloy or stainless steel.

STROJEXPORT

03/145

Crude Oil Gate Valve, Flanged

Especially robust design, cast-steel. Designed for deep bores, oil pipe lines, flushing water and natural gases. Manufactured for the maximum permitted overpressures of 50, 70, 105 and 350 kg/cm².

STROJEXPORT

03/146

Crude Oil Gate Valve, Screwed Type

Especially robust design, cast-steel. Designed for deep bores, oil pipe lines,

flushing water and natural gases. Range of pressures same as in No 03/145.
STROJEXPORT

03/147

Cast-Iron Gate Valve

Nominal Pressure 6 kg/sq. cm (85 lb/sq. in.), flanged, flat, with fixed wedge. Suitable for cold or hot water, low-pressure steam and gases.

STROJEXPORT

03/148

Cast-Iron Gate Valve

Nominal Pressure 10 kg/sq. cm (150 lb/sq. in.), flanged, oval, with fixed wedge. Suitable for cold or hot water, low-pressure steam and gases.

STROJEXPORT

03/149

Relief (Safety) Valve, Low Weight, Spring Type

flange-type, pressure-sealed. Suitable for steam, air and gases up to 16 kg/sq. cm (230 lb/sq. in.) and a maximum temperature of 350 °C (630 °F).

STROJEXPORT

03/150

Relief (Safety) Valve, Low Weight, Spring Type

Nominal Pressure 40 kg/sq. cm (600 lb/sq. in.), angle-type, flanged, with covered spring and relieving lever. Suitable for water, steam, air and gases up to 40 kg/sq. cm (600 lb/sq. in.) and a temperature of 300 °C (572 °F).

STROJEXPORT

03/151

High-Speed Relief (Safety) Valve

Nominal Pressure 40 kg/sq. cm (600 lb/sq. in.), spring-, angle-type, flanged. The design of this valve enables its rapid opening and the draining of an adequate quantity of the liquid. Suitable for steam boilers up to a pressure of 40 kg/sq. cm (600 lb/sq. in.) and a temperature of 300 °C (572 °F).

STROJEXPORT

03/152

Reducing Valve with Direct Regulation

Nominal Pressure 16 kg/sq. cm (230 lb/sq. in.), straight, with diaphragm and spring load. Designed for reducing water pressure to 16 kg/sq. cm (230 lb/sq. in.) and temperature to 50 °C (122 °F).

STROJEXPORT

03/153

By-Pass Valve, Diaphragm Type

Nominal Pressure 16 kg/sq. cm (250 lb. sq. in.), straight, spring loaded with double relieved disk. The rubber diaphragm is protected by a water column against higher temperatures of liquids. Suitable for liquids, steam and gases from the lowest opening pressures up to 6 kg/sq. cm (85 lb/sq. in.) and a temperature of 300 °C (572 °F).

STROJEXPORT

03/154

Two-Stage Relief Valve

The valve closes the pipe in case of breakdown. It is actuated by impulses from the pipe where the pressure has been increased or reduced.

It finds use with pipes for all kinds of gases and air up to maximum permissible working overpressure of 13 kg per sq. cm and a temperature of 30 °C.

STROJEXPORT

03/155

Non-Return Butterfly Valve, 800 in dia.

The valve is used with pumps and various installations for a maximum working overpressure of 2,5 kg per sq. cm. and a temperature of 100 °C.

STROJEXPORT

03/156

Reflex Valve Water Gauge, 25 in dia.

The valve finds use with fuel tanks, 1200 mm long. It is also produced with a double holder for a length of 4500 mm.

STROJEXPORT

03/157

Oil Economy for ÖKD Transformers

serves for cleaning or regeneration of transformer oil. It is installed in BAI express train carriages, and contains:

- a) 1 vacuum filter
- b) 1 double regenerating plant
- c) 1 control panel
- d) Pumps
- e) 2 manipulating tanks
- f) Auxiliary equipment

STROJEXPORT

03/158

Precision Reduction Valve

for wet and overheated steam, mercury regulated, for any pressure or temperature, used for gasses and air.

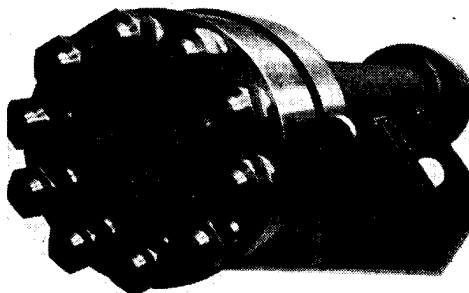
04 MACHINES FOR THE CHEMICAL INDUSTRY

04/001

Spiral Heat Exchanger, Type K-K

The machine is used for gases and liquids in the chemical industry. It is suitable for undertakings where small size and relatively highly efficient exchangers are required. Heat exchanger surfaces: 30 sq.metres. The liquid is in both sections of the exchanger. Working pressure: 3 atm. g.

TECHNOEXPORT



04/002

High-Pressure Exchanger, 110 sq.m.

The exchanger is a part of the equipment for the production of ethanol. It is of tubular type with a floating head. The shell, 870 mm. in outer diameter, is electrically welded of two parts, and has one inlet and one outlet neck. The channel cover is on the other end of the shell. The tube sheet of the exchanger tube bundle is fitted between the flanges of the shell and the channel cover. The tube bundle is rolled in two tube sheets.

TECHNOEXPORT

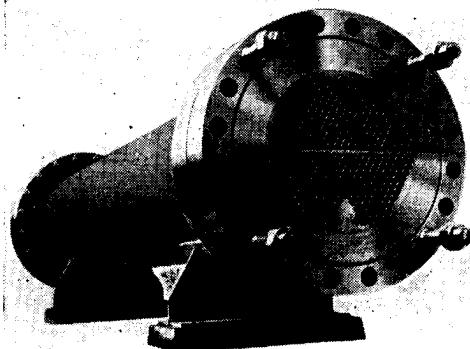
04/002

04/003

Concentric Cylinder Heat Exchanger

The surface of the exchanger consists of a system of vertical cylinders which are inserted concentrically into one another. Since their diameters are graded, an intercircular space is formed between the cylinders. The exchanger finds a wide field of application, especially in the chemical industry for "liquid-liquid", "vapour-liquid", "gas-liquid" or "gas-gas"; it can also be used as an evaporator heating element or vapour condenser. Surface: 16 sq. metres. Overpressure: 6 atm. Weight: 670 kg.

TECHNOEXPORT



04/002

04/004

Combined Heater and Exchanger, 100,000 kca l/hr.

A water heater with sludge exchanger. Advantages: Easy essembly, safety in operation, higher output per unit of weight.

TECHNOEXPORT

04/005-009

Dry Rotary Low-Pressure Gas Meter

The gas meter measures the quantity of gas manufactured in gasworks as well as the demand of gas in all fields of industry. Sizes: 2000 cu. metres per hour, 700 cu. metres per hour, 130 cu. metres per hour, 450 cu. metres per hour or 300 cu. metres per hour.

TECHNOEXPORT

04/010

Autoclave

The autoclave is used for chemical reactions under pressure in various protective surroundings. Capacity: 3000 litres. Working pressure: 25 atm. g.

TECHNOEXPORT

04/011
Drum Type Chamber Filter

The drum type chamber filter is used chiefly for the densification, dehydration and washing of cellulose. It is a rotary, drum type chamber filter for continuous operation. Capacity: 140 tons/24 hours. *TECHNOEXPORT*

04/012
Electrostatic Separator

The electrostatic separator is used for the condensation of fine particles of tar in coal gas, coke gas, etc. Capacity: 1000 cu. metres per hour. Efficiency: up to 99.9 p. c. *TECHNOEXPORT*

04/013
Stream Gas Washer

The washer consists of a jet, diffusor, stream filter, injector and auxiliary attachments (pump, fan). It cleans producer gas. It is made of steel plate, 4 mm. thick. Quantity of gas: 5000 cu. metres per hour. Gas temperature: 55 °C. Concentration of gas contamination: 0.4 to 0.7 gr./cu. metre. *TECHNOEXPORT*

04/016
Catalytic Purifier

The purifier is a high-pressure forged body from a cylindrical shell. *TECHNOEXPORT*

04/017
Wound Scrubber

The apparatus serves for separating some elements of the gas mixture by means of a liquid absorbent of instance for the elimination of carbon dioxide in syn-gas by means of ammonia water. *TECHNOEXPORT*

04/018
Water Treating Unit

Capacity: 2 litres per sec. The unit which is of compact design, ensures continuous supply of drinking water at a rate of 2 litres per sec. It consists of a flunker, sandfilter, diluting tanks, a measuring pump and two centrifugal pumps for priming and repumping water. *TECHNOEXPORT*

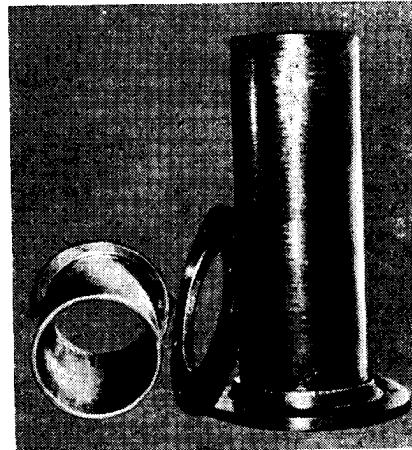
04/019
Hydrocyclons for sorting fine and coarse solid fractions in liquids
CERAMICS

04/020
Various Basalt Hollow Blocks

Arch, combined arch, sewage pipes, Y and T pieces, used for hydraulic or pneumatic conveyance of hard and sharp materials and in acid environment. *CERAMICS*

04/021
Various Castings, Hollow Blocks and Floor-Tiles

A part of the lining of a rotary tube mill for grinding cement, ceramic raw materials, etc. *CERAMICS*



04/022

04/022
Laminated Pipes

Sections of pipes of various diameters and wall-thicknesses, including fittings, designed to meet the pressure and operating requirements. *CERAMICS*

04/023
Pressure Filter

suitable for filtering arsenic acid, boric acid and ethyl alcohol. Working pressure in the filter: up to 5 atm. Approximate working temperature:

200 °C. The welded filter is provided with a removable cover, to which the mixing equipment is attached. Weight: 4250 kg. *TECHNOEXPORT*

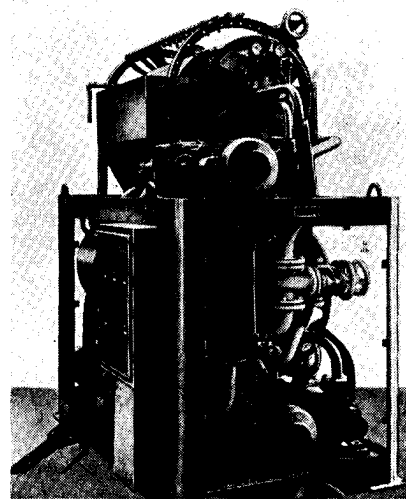
where the solid phase has to be separated from the liquid phase. Filtering area: 0.1 sq. metre. Weight: 36.5 kg. *TECHNOEXPORT*

04/025
Extraction Column

The extraction column 1000 is a vertical cylindrical vessel with a deep arched bottom. Inside the column are 15 trays on welded angular rings. The trays are divided into sections which can be extracted through four manholes, 500 mm. in dia., welded to the shell. It finds use in the selective refining process of mineral oils. *TECHNOEXPORT*

04/026
Laboratory Filter 3 KT 1

The laboratory filter is used in the chemical, food, cellulose or pharmaceutical industries. Continuous filtration finds a wide field of application, to-day, in industries



05 FOUNDRIES AND FOUNDRY EQUIPMENT

05/001
Die-Casting Machine CLP 8515-2

The machine is suitable for working up zinc, aluminium, copper, magnesium and other alloys of non-ferrous metals up to 0.60 kg. (aluminium alloys), 1.60 kg (zinc alloys) and 1.25 kg. copper alloys) in weight. Fully hydraulic control. Average output: 100—200 operations per hour. Maximum die-closing force: 85,000 kg. Weight: 3,000 kg. *STROJEXPORT*

05/002
Pressure Die-Casting Machine CLP 500.70

The machine is suitable for working up aluminium, magnesium, zinc, copper and other alloys of metals with a casting temperature below 1000 °C and about 12 kg. in weight. Fully hydraulic control. The machine is provided with RP 30 pump with a capacity of 100 litres per min. at a pressure of 120 atm., and AK 7.5 hydropneumatic accumulator of 750 litre capacity. Output: 10 to 50 operations per hour. Weight: 22,500 kg. *STROJEXPORT*

STROJEXPORT

05/003
Semi-Automatic Pressure Die-Casting Machine CLP 180.30

The machine is suitable for working up aluminium, zinc, copper, magnesium and other alloys of nonferrous metals. Die-closing force: 180 tons. Pressure: 30 tons.

Semi-automatic control, i. e. the working cycle is automatic until the die is opened. *STROJEXPORT*

05/004
Mobile Foundry Screen SSP 60

used for screening smaller quantities of sand. The machine can be transported. The vibrating movement is obtained by means of weights, eccentrically mounted on a disc which is carried at the end of the driving shaft. Height:

1630 mm. Electric motor: 1.1 kW, 900 r. p. m. Approximate output: 1.5 cu. metre per hour. Approximate weight: 90 kg. *TECHNOEXPORT*

	P1	P2	P3	P4	P5
	240	460	700	1300	900 mm.
Weight	2.5	5	5.5	6	8 kg.

TECHNOEXPORT

05/005
Oscillating Grinder KB 40

The machine serves for surface machining of steel castings. It is especially suitable for removing seams in the joints of castings, slag on billets as well as for grinding the flaws of castings. Two electric motors: 2 kW, 2810 r. p. m. Grinding wheel dia.: 400/50×153 mm. Maximum peripheral speed of grinding wheel: 45 metres per sec. Approximate weight: 280 kg. *TECHNOEXPORT*

05/006
Grinder SB 75

The machine is intended for grinding medium heavy castings. Easy renewal of Vee-belts. Improved exhaust. Two grinding wheels, 750/305×80 mm. in. dia. 2 electr. motors, 7.5 kW, 1440 r. p. m. Maximum peripheral speed of grinding wheels: 45 metres per sec. Approximate weight: 1650 kg. *TECHNOEXPORT*

05/007
Jarring Machine ISS 1-P

with moulding box lifting mechanism for the manufacture of sand moulds. The jar ram moulding mechanism ensures perfect thickening of the sand in the box and dampens the impacts on the base. Clamping pressure: 4000 kg. Weight: 1300 kg. *TECHNOEXPORT*

05/008
Jet Sand Blasting Machine
TS 2000.1

with work table. This machine is designed for cleaning castings and suitable forgings up to 35 kg. in weight. The machine does not require a special foundation with assembly holes. Diameter of rotary table: 2000 mm. Weight: 3250 kg. *TECHNOEXPORT*

05/009
Pneumatic Upsetting Machine

designed to speed up the foundry forming operations. Five types are available.

05/010
Revolving Furnace

for all types of heat treatment. Output: 1000 kg. per hour. Useful working space: 2700 in dia. Width of furnace hearth: 850. Maximum height: 475. Output: 500 kg./hr. Useful working space: 2150 in dia. Width of furnace hearth: 650. Maximum height: 400. Maximum temperature: 1000 °C. Speed of the machine: 1 to 4/hr. Output of electric motor: 2.2 kW. Weight of furnace: 23,000 kg. *STROJEXPORT*

05/011
Model of a Steel Foundry

Capacity: 9000 tons of castings per a. at 2.2 shifts. Maximum weight of casting: 1500 kg. 90 p. c. of castings are machine-made, 60 p. c. are made in the raw state. Two electric melting cupola furnace, one induction furnace. *TECHNOEXPORT*

05/012
Forge and Pressing Shop Model

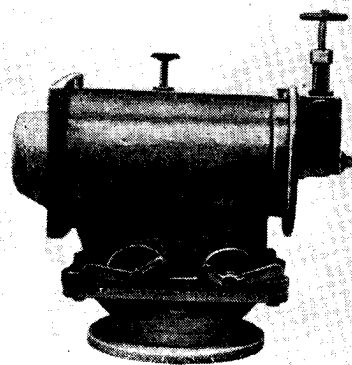
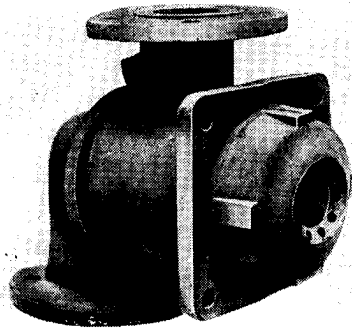
Capacity: 38,000 tons of forgings and pressings per a. at 2.3 shifts, i. e. forgings up to 700 kg. in weight die forgings up to 80 in weight hot or cold treated pressings of sheets and wide steels. *TECHNOEXPORT*

05/014
Injection Burners

By means of these burners the kinetic energy of pressure gas is utilized and a perfect mix for all kinds of clean gases is obtained. *STROJEXPORT*

05/015
Universal Turbulence Gas Burner

for the combustion of all low-pressure gases, cleaned or not cleaned. *STROJEXPORT*



05/016
Heating Oil Burner

for thin liquid types of heating oils, for use with heating plants operating under higher temperatures. STROJEXPORT

05/017
Advanced Casting Methods
Refined 06 Silicon Cast-Iron

Rational Production of Precision Castings into chemically treated moulds

The setting of the moulding machine ensures the manufacture of perfect moulds from chemically treated sands which are suitable for the production of light precision castings.

Core Blasting from Chemically Treated Sands

The chemically treated sands are especially suitable for core blasting.

Casting of a Dredger Swing Superstructure

made by means of CT sand. The casting is 5200 kg. in weight. By means of the chemically treated mixture economies of 20 p. c. have been obtained.

Exothermic Linings of Risers

are designed to increase the temperature of the metal so that steel can be utilized by 75 to 85 p. c. or even more. The recommended mixtures react slowly, with a delay of about 10, 60 or 100 seconds.

Chill Moulding Mixtures

are superior to pulverized resin mixtures.

Czechoslovak Moulding Sands

their qualities, geological origin and geographical position of the beds. The applicability of the various kinds of these sands to the individual metals is demonstrated. STROJEXPORT

CZECHOSLOVAK
HEAVY INDUSTRY

*scientific and technical monthly
for engineering and heavy industry*

06 FORMING MACHINES

06/001

Straight-Sided Deep Throated Press especially designed for blanking operations in multiple part production

Rated pressure	10 tons
Stroke	8 to 60 mm.
Throat	140 mm.
Distance between columns	180 mm.
Dimensions of table	280×400 mm.
Output of electric motor	1.1 kW
Weight	860 kg.

STROJEXPORT

06/002

Gap Frame Eccentric Press LE 100

is intended for blanking, cutting bending as well as shallow drawing work in multiple part production.

Rated pressure	100 tons
Throat	320 mm.
Maximum distance ram to table	400 mm.
Stroke of ram	20 to 120 mm.
Dimensions of table	900×640 mm.
Output of electric motor	7 kW
Weight	5500 kg.

STROJEXPORT

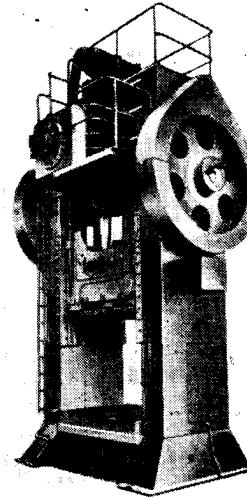
06/003

Gap Frame Eccentric Press with fixed table LE 250

for heavy blanking, cutting, bending as well as shallow drawing work.

Rated pressure	250 tons
Stroke of ram	30 to 140 mm.
Throat	400 mm.
Dimensions of table	1120×800 mm.
Output of electric motor	20 kW
Weight	12,110 kg.

STROJEXPORT



06/004

06/005

Straight-Sided Crank Press

LTL 160/1100

this machine is suitable for drawing guards, doors and other parts of motor car bodies, as well as fuel tanks, brake drums of disc wheels and kitchenware.

Rated pressure of ram 25 mm. before the lower dead point	160 tons
Clear width below guideways	1100 mm.
Maximum drawing depth	260 mm.
Stroke of ram	560 mm.
Dimensions of table	1100×1100 mm.
Output of electric motor	30 kW
Weight	33,600 kg.

STROJEXPORT

06/004

Straight-Sided Crank Press

LKT 250/160

intended for shallow drawing and blanking work in single or multiple part production, such as drawing bonnets, doors and other parts of motor car bodies, refrigerators, ranges, etc.

Rated pressure	250 t
Stroke	250 mm.
Width of frame below guideways	1600 mm.
Dimensions of table	1580×1150 mm.
Output of electric motor	28 kW
Weight	25 tons

STROJEXPORT

06/006
Power Driven Curve Cutting
Shears NOT 100/4

intended for cutting the irregular edges of parts produced by large drawing presses, such as mudguards, motor vehicle radiator parts, various motor vehicle body parts, such as window frames, doors, etc. It is also suitable for cutting curves and various shapes from metal sheets.

Radius	1000 mm.
Maximum thickness of steel cut of a tensile strength of 40 kg./sq. mm.	4 mm.
Output of electric motor	2550 kg.

STROJEXPORT

06/007
Bending Machine XO 100/1

hand operated, suitable for use in tin-smith's shops and factories for the production of metalware, for simple bending of sheets up to a length of 1000 mm. and 1 mm. thickness. Various radii of bend are obtained by changing the bending bar of the upper bending cheek.

Length of bend	1030 mm.
Maximum thickness of sheet of a tensile strength of 40 kg./sp. mm.	1 mm.
Clear width between side frames	1070 mm.
Maximum stroke of upper bending cheek	80 mm.
Weight	115 kg.

STROJEXPORT

06/008
Three Roller Rounding Machine
X Z M 200/2, power operated

intended for rounding cylindrical or tapered shapes and partial straightening of sheets. Especially suitable for the production of barrels, shells of boilers, flues, pipes, etc.

Working length	2020 mm.
Maximum thickness of rounded, sheet 40 kg./sp. mm. in tensile strength	2 mm.
Minimum diameter of rounded cylinder	112 mm.
Maximum working speed	8.25 metres per min.
Weight	2000 kg.

STROJEXPORT

06/010
Friction Screw Forming Press
LFK 400/700

intended for accurate work in forging dies as well as for calibrating, stamping, straightening and bending operations. The force of blow is controlled by means of the program control equipment by adjusting the height of stroke according to the type of the forging.

ping, straightening and bending operations. The force of blow is controlled by means of the program control equipment by adjusting the height of stroke according to the type of the forging.

Rated pressure	400,000 kg.
Maximum stroke	450 mm.
Clear width below guideways	700 mm.
Output of electric motor	30 kW
Weight	22,000 kg.

STROJEXPORT



06/010

06/011
Swaging Machine KRT 63

suitable for gauging and stepping solid or tubular material of large dimensions. The operation is fast without wastage in material.

Maximum diameter of solid material handled by hot swaging	125 mm.
Maximum diameter of solid material handled by cold swaging	63 mm.
Maximum diameter of tubular material handled by cold or hot swaging	125 mm.
Maximum length of work swaged in one operation	295 mm.
Output of the electric motor of swaging mechanism	45 kW

STROJEXPORT

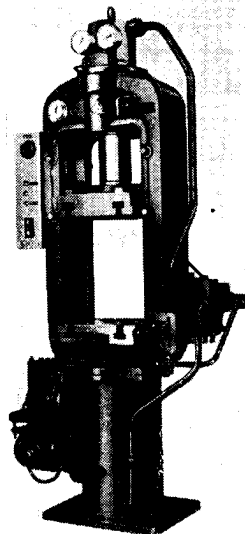
06/012

Rotary Swaging Machine KRA 8

This fully automatic machine has been designed as an automatic production machine with a view to uninterrupted operation. It is intended for rotary swaging of various materials in forging die.

Maximum diameter of solid material handled by cold swaging	8 mm.
Maximum diameter of solid material handled by hot swaging	12 mm.
Maximum diameter of tubular material handled by cold or hot swaging	16 mm.
Diameter of bore of spindle	22 mm.
Number of blows of die per sec.	48
Output of electric motor	2.2 kW
Weight	1750 kg.

STROJEXPORT



06/014

06/013

Spring Hammer AJAX 2 A

suitable for various hot forging operations, for use with standard or forming anvil blocks and dies.

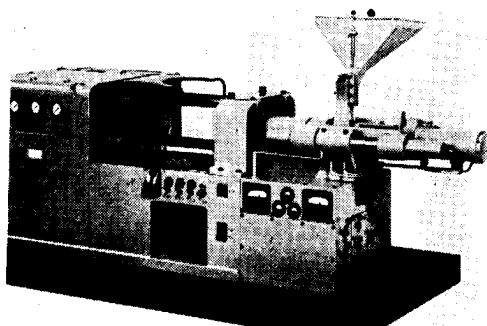
Number of blows per min.	250
Maximum stroke	220 mm.
Output of electric motor	2.7 kW
Weight	1900 kg.

STROJEXPORT

vertical into the parting line of the pressmould (joint). The function of the press is automatic, semi-automatic or each operation is controlled by a hand lever.

Maximum weight of material for one injection	100 grammes
Maximum closing force	85 tons
Maximum withdrawing force	8 tons
Maximum opening force	8 tons
Maximum injection force	21 tons
Working pressure	160 atm.
Maximum distance of platens	810 mm.
Weight	3500 kg.

STROJEXPORT



06/015

06/014

Fully Automatic Thermoplastic Moulding Press

intended for the injection of thermoplastics from the melting chamber into the closed mould. According to the position of the injection cylinder, the injection is either square to the mould closing line (into the center-line) or

06/015

Hydraulic Injection Moulding Press CBA 160-1 for the treatment of thermosets

The press has a vertical frame. The clamping platens are guided by adjustable prismatic guides. The injection cylinder piston the maximum stroke of which is in line with the plane of the table, is located in the bottom of the frame. The distribution of the closing part is controlled by three push-buttons. By depressing the push-button of the closing piston the closing piston is set in operation and the other

movements of the press are automatically started. The operator has only to remove the moulding, clean the mould and pour in the material.

Adjustable closing force from	80 to 160 tons
Adjustable opening force from	32 to 75 tons
Maximum distance between platens	1000 mm.
Adjustable injection (opening) force	from 0.5 to 75 tons
Adjustable withdrawing injection force	from 0.2 to 28 tons
Dimensions	229×128× ×341 cm.
Weight	3400 kg.

STROJEXPORT

06/016
Hydraulic Injection Moulding Press CBS 45-1 for the treatment of thermosets

The press has a vertical frame. Its base is formed by a low-pressure accumulator which carries a pump with electric motor. The press is controlled by a two lever distributor while the pump is operated by push-buttons. The moulding and injection force can be adjusted by means of relief valves.

Maximum closing force	45 tons
Maximum withdrawing force	6 tons
Maximum injection force	12 tons
Stroke of closing piston	250 mm.
Stroke of injection piston	175 mm.
Maximum distance of platens	750 mm.
Dimensions of moulds	400×360 mm.
Output of electric motor	1.1 kW
Working pressure	315 atm.
Dimensions	106×75× ×210 cm.
Weight	1120 kg.

STROJEXPORT

06/017
Thermoplast Hydraulic Press CSB 12.4.5-1

The smallest angle type press for semi-automatic injection of thermoplastics into the parting line - the mould. It is provided with a safety cell and automatic attachment.

Closing force	12 tons
Moulding force	4.5 tons
Maximum distance between platens	230 mm.
Dimensions of mould	140×220 mm.
Working pressure	150 atm.
Dimensions	55×82× ×165 mm.
Weight	490 kg.

STROJEXPORT

06/018
PB 1600 Hammer

is a steam or air-pressure operated double-acting hammer for vertical forging. Its cast-steel anvil block is independently spring mounted and consists of two sections.

Rated weight of vertically travelling parts	1600 kg.
Rated stroke	1120 mm.
Maximum working stroke	1060 mm.
Maximum permissible power of blow	7500 kgm.
Number of blows per min.	50
Throat	1200 mm.
Weight	58,300 kg.

STROJEXPORT

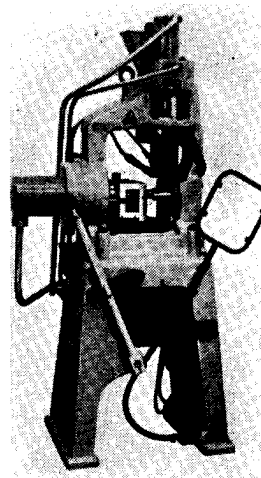
06/019-020
Pneumatic Hammers B 150 and B 630

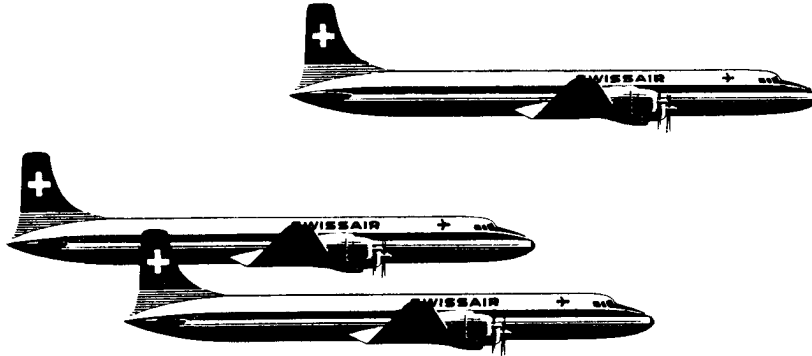
are suitable for the most varied forging work, such as punching, cutting, upsetting, drawing and forging of sections. The pneumatic hammers are double acting two-cylinder machines with two rotary slide valves for the distribution of air above and below the ram.

Type	B 150	B 630
Weight of ram	150	630 kg.
Number of blows per min.	150	110
Ram stroke	500	800 mm.
Power of blow at maximum pressure in cylinder	716	2930 kgm./sec.
Output of electric motor	9.95	55 kW
Weight	7500	27,150 kg.

STROJEXPORT

06/017





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AND IN THE

A-II AND A-III

HALLS

06/021
Hydraulic Forging Press CKV 1000

is a four-column, press with longitudinal feed to both sides and one cross feed, suitable for forging shafts and various parts of ingots up to 6 tons in weight as well as upsetting and punching ingots up to 1.7 ton in weight. The new special design of the press permits a high forging eccentricity.

Working force	980 tons
Working force of water	250 atm.
Stroke	1250 mm.
Clear height	2500 mm.

STROJEXPORT

06/022
Straightening Press CDK 630

intended for straightening long forgings, bars and rolled stock. The long table of the former design has been substituted by a thrust plate in the base of the mobile press frame. The workpiece is carried in two stands (mobile and stationary) provided with pulleys, and can be rotated by means of electric motors.

Working force	600 tons
Maximum oil pressure	350 atm.
Stroke	400 mm.
Maximum travel of frame	6500 mm.
Radial pump drive	6.5 kW

STROJEXPORT

06/023
Hand Operated Hydraulic Press LTH

intended for the pressing of arbors, mandrels, bushings, pins, bolts, etc., and for various stamping and forming operations in the manufacture of smaller parts. It replaces the LTR hand lever operated presses the operation of which has resulted in considerable physical strain.

Maximum hydraulic pressure of piston	5000 kg.
Direct piston pressure by hand lever	1250 kg.
Hand controlled piston stroke	245 mm.
Hydraulic piston stroke	80 mm.
Throat of piston	245 mm.
Maximum distance of platens	370 mm.
Minimum distance of platens	45 mm.
Weight (welded frame)	180 kg.
(cast frame)	270 kg.

STROJEXPORT

06/024
Automatic Coil Spring Machine Au 1

intended for the manufacture of steel coil springs, right-hand and left-hand, including pressure springs, pressure springs with ends pressed into a plane, pressure tension springs, single or double bevel springs, concave and convex springs and springs of other shapes, bowden cables and rings.

Maximum output: 180 springs per min.
 240 rings per min.
 Output of electric motor: 0.5 kW.

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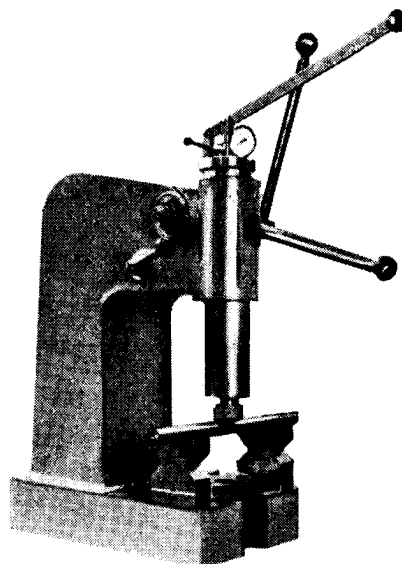
06/025
Automatic Coil Spring Machine Au 3

intended for the manufacture of steel coil springs, right-hand and left-hand, including pressure springs, pressure springs with ends pressed into a plane, pressure tension springs, single or double bevel springs, concave and convex springs and springs of other shapes, bowden cables and rings.

Maximum output: 98 springs per min.
 130 rings per min.
 Output of electric motor: 2.2 kW.

STROJEXPORT

06/023

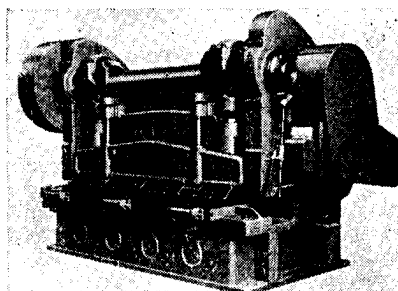


06/026
Automatic Coil Spring Machine
Au 8

intended for the manufacture of coil springs, right-hand and left-hand, including pressure springs, pressure springs with ends pressed into a plane, pressure tension springs, single or double bevel springs, concave and convex springs and springs of the other shapes.

Maximum output per min. 60 pcs.
 Output of electric motor 6 kW

STROJEXPORT



06/028

06/028
Guillotine Shears NTH 200/20

for cutting sheets into small sizes for further treatment. When cutting strips, 650 mm. wide, stops can be used. With the stands disengaged, longer sheets or strips can be cut as compared with the length of cut, but only to a width of strip of 600 mm.

Maximum length of cut 2000 mm.
 Maximum sheet thickness
 (50 kg./sq. mm. in tensile strength):
 Cutting angle of 5° 20 mm.
 Cutting angle of 4° 18 mm.
 Cutting angle of 3° 16 mm.
 Output of electric motor 24 kW.

STROJEXPORT

06/029
Press Brake OL 200

intended for simple as well as complex bending operations. The machine can also be used as a multi-operation press or shears.

Maximum working pressure 200 tons
 Maximum working length 4250 mm.
 Maximum thickness of bent sheet 12 mm.
 Throat 305 mm.
 Output of electric motor 15 kW
 Weight 21,000 kg.

STROJEXPORT

06/030
Forging Line

The forging line consists of: KU 250 roller, LKM 1600 and LKO 315 forging presses.

STROJEXPORT

The periodical

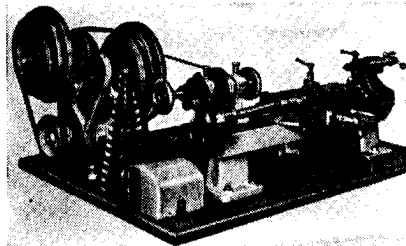
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07 MACHINE TOOLS

07/001 Watchmakers' Fine Engineering Lathe "LAMA II"

designed for various fine engineering jobs in collet-chucks up to 8 mm. in dia.
STROJEXPORT



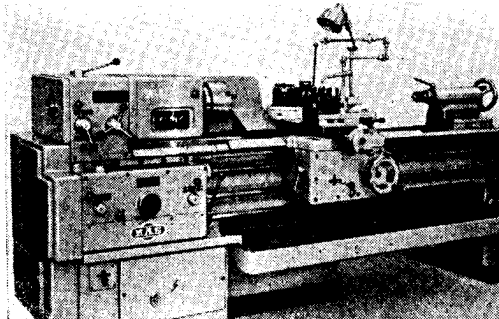
07/001

07/002 Universal Centre Lathe SN 40

for single part and multiple part production. The end of the spindle has a short taper with bayonet-joint. The lathe cuts all usual metric and Whitworth threads without change gears. After changing gears, module and diametral pitch threads are also obtained.

Swing over bed:	400 mm.
Distance between centres:	750, 1000, 1500 mm.
Number of spindle speeds:	16
Output of electric motor:	4.4 kW
Weight:	1650 kg.

STROJEXPORT



07/002

07/003 Universal Lathe SV 18 R

with KZ 15 hydraulic copying attachment, suitable for highly accurate finishing operations in single part and small series production.

Swing over bed:	380 mm.
Swing over carriage:	60 mm.
Speed range:	14 to
Spindle range	14 — 2800 r. p. m.
Distance between centres:	1600 mm.
Input:	6 kW

STROJEXPORT

07/004 Lathe SS 35

with IZS 200 thread cutting attachment. The gears are changed from the operator's post. The thread cutting attachment forms an independent unit.

Turning length:	1000 mm.
Speed range:	112 to 2240 r. p. m.
Output of the motor for spindle drive:	14 kW
Pitch of external threads:	M6×0.75— — M240×6;
Pitch of internal threads:	M30×1— — M250×6.

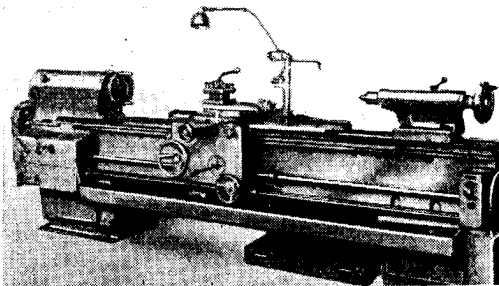
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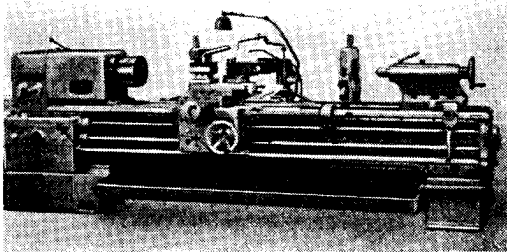
07/005 Centre Lathe SS 50 K

Automatic working cycle. The machine is designed for the quantity production of medium sized parts. It is provided with IKS 2 hydraulic copying attachment and hydraulic tailstock.

Swing over bed:	500 mm.
Swing over carriage:	250 mm.
Distance between centres:	750 to 2000 mm.
Spindle speed range:	22.4 to 2240 r. p. m.
Output of electric motors:	22 kW

STROJEXPORT





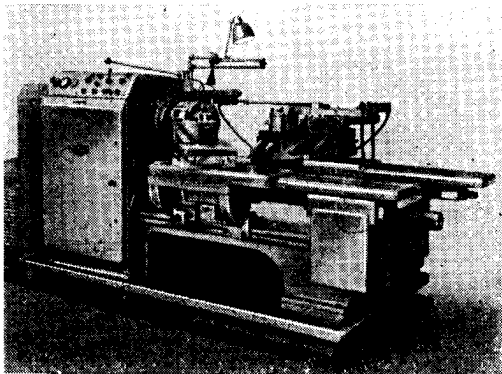
07/006

07/006
Universal Centre Lathes
SN 55 to SN 71

suitable for single part and small series production. The machine is designed for medium outputs and for cutting metric, Whitworth, module and diametral pitch threads.

	SN 55 SN 63
	SN 71
Swing over bed:	550 630
	710 mm.
Swing in bed gap:	800 880
	960 mm.
Speed range:	10 to
	1000 r.p.m.

STROJEXPORT



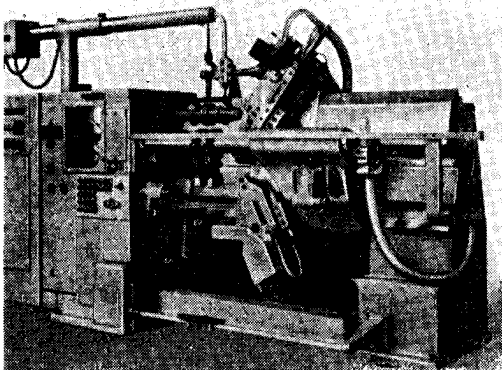
07/008

07/007
Centre Lathe SU63A

intended for single part or multiple part production up to 6000 kg. in weight. It can be provided with IKS 3 longitudinal or cross feed hydraulic copying attachment for the production of formed parts. The guide surfaces of the bed are protected by hardened gibs.

Swing over bed:	630 mm.
Distance between centres:	2750 mm.
Swing over carriage:	360 mm.
Number of longitudinal and cross feeds:	40
Output of electric motor:	17/10 kw

STROJEXPORT



07/009

07/009
Automatic Repetition Lathe
SP 31

The machine serves for machining of parts of intricate shape according to pattern by means of the hydraulic attachment and indexing card.

07/008
Semi-Automatic Lathe SPE 50

The machine is intended for machining medium sized parts in quantity and multiple part production. Both external and internal surfaces of the chucked workpiece can be simultaneously machined by means of the two carriages. The machine can also be adapted to hydraulic copying attachment.

Swing over bed:	500 mm.
Turning length:	300 mm.
Number of spindle speeds:	12
Speed range:	54, 67, 83, 100, 133, 166, 207, 238, 272 332, 408, 512.

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Maximum swing over bed:	315 mm.
Maximum turning length:	1000 mm.
Speed:	71 to
	1800 r. p. m.
Maximum input of spindle:	30 kW

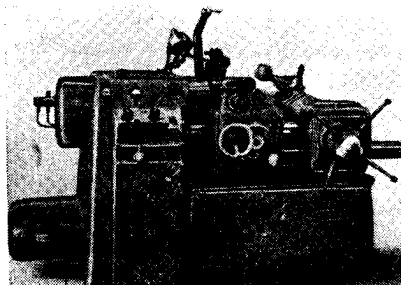
STROJEXPORT

07/010
Capstan Lathe R 25

The machine is intended for the production of parts from bar stock or chucked. Preselection of spindle speeds.

Swing over bed:	315 cm.
Swing over cross slide rest:	160 mm.
Spindle bore:	36 mm.
Spindle speed range:	18 to 3150 r. p. m.
Output of electric motor:	5.5 kW

STROJEXPORT



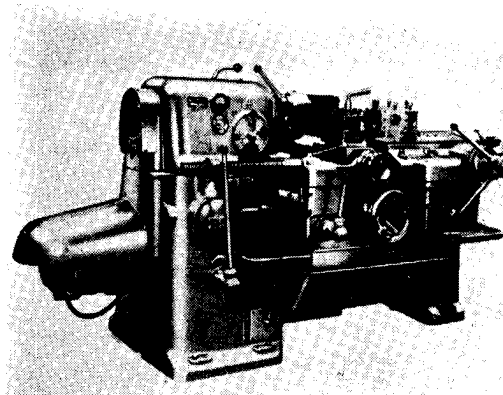
07/010

07/011
Capstan Lathe R 5

The machine is suitable for the quantity production of parts from bar stock as well as for medium sized chucked workpieces. It has a wide range and number of speeds and feeds.

Swing over bed:	510 mm.
Swing over bed slide:	450 mm.
Swing over cross slide rest:	255 mm.
Bar capacity:	50 mm.
Spindle speed range:	28 to 1400 r. p. m.
Output of electric motor:	7.5/10.2 kW

STROJEXPORT



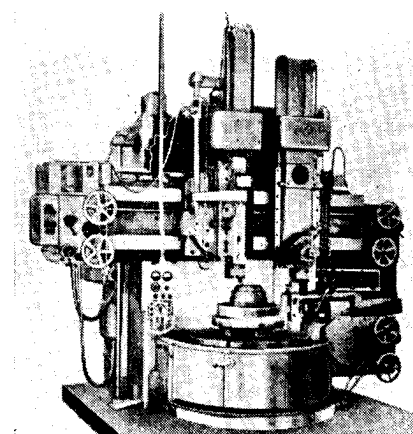
07/011

07/012
Double Column Vertical Turning and Boring Mill SK 12

intended for the machining of short and heavy workpieces up to 4 tons in weight.

Maximum swing over bed:	1350 mm.
Maximum height of workpiece:	1000 mm.
Speed ranges:	
P1	3.55 to 150 r. p. m.
P2	5.3 to 225 r. p. m.
P3	7.45 to 314 r. p. m.
Maximum output of electric motor:	37 kW

STROJEXPORT



07/012

07/013
Automatic Die-Sinking Machine Fk08c with Electric Tracer Control

The machine produces complicated and irregular shapes of dies, moulds, metal patterns, templates and cams by three-dimensional copying from patterns.

Working surface of table:	2×700 mm.
Number of spindle speeds in each range, in either direction of rotation:	8
Input of electric motor:	7 kW

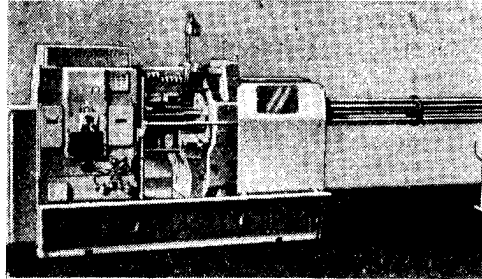
STROJEXPORT

07/014
Automatic Five-Spindle Lathe
AN 35

designed for quantity production of parts from bar stock, such as pins, bushings, etc. It is also suitable for hole drilling and thread cutting if equipped with respective attachments.

Maximum diameter of bar stock: 35 mm.
 Maximum length of machining: 100 mm.
 Speed of electric motor: 1460 r. p. m.
 Output of electric motor: 9 kW

STROJEXPORT



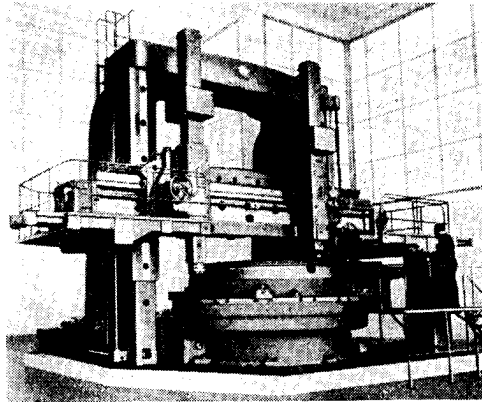
07/014

07/015
Double Column Vertical Turning
and Boring Mill SK 40

The machine is intended for machining heavy workpieces up to 40 tons in weight, turning inner and outer tapers as well as for screwcutting operations. Electromagnetic copying attachment is supplied as special accessory.

Maximum diameter of turning by means of side arm: 4000 mm.
 Maximum diameter of turning by means of tool arm: 4200 mm.
 Maximum turning height: 2500 mm.
 Spindle speed range: 0.44 to 22.5 r. p. m.
 Input: 145 kW

STROJEXPORT



07/015

07/017
Single Spindle Automatic Lathe
AD 25

with equipment, designed for the automatic quantity and series production of simple and intricate parts from bar stock, circular, hexagonal or square in cross-section, up to a maximum size of 25 mm. and turning length of 180 mm.

Maximum/minimum spindle speed: 3950/568 r. p. m.
 Input: 4.5 kW
 Approximate weight: 1500 kg

STROJEXPORT

Diameter of bar stock: 80 mm.
 Maximum turning diameter (flanges): 240 mm.
 Spindle speed range: 45 to 2000 r. p. m.
 Output of electric motor: 12 kW.
 Weight of the machine: 4500 kg.

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07/018
Camless Automatic Lathe AB 80

The machine is intended for curveless turning from bar stock, and flanging operations. The easy setting of the machine without the use of cam discs enables parts to be made even in small series. Electro-hydraulic control of the working cycle.

07/019
Vertical Miller FVS 16

intended for machining small workpieces, 75 kg. in weight. The wide range of spindle speeds and table feeds enable carbide tipped tools to be used at high cutting speeds. Automatic cycle of the longitudinal table feed.

Clamping surface of table: 160x630 mm.
 Longitudinal travel of table: 340 mm.
 Vertical spindle feed: 150 mm.
 Cross travel of headstock: 200 mm.
 Spindle speed range: 125 to 2000 r. p. m.
 Output of electric motor for spindle drive: 1.5 kW.

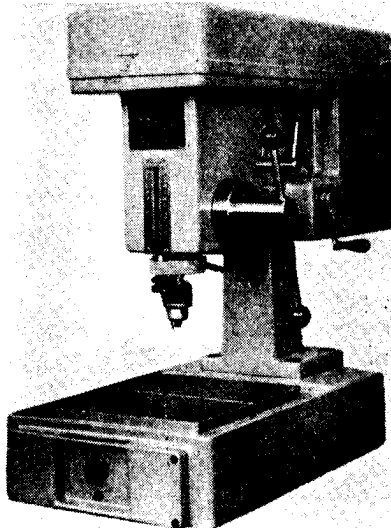
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07/020
Knee Type Milling Machine
FB 50 V

This vertical milling machine which is intended for very accurate and fine machining of intricate surfaces, enables carbide tipped tools to be used to the best advantage. The control of all gears is concentrated on a suspended pushbutton panel.

Working table:	500×2000 mm.
Speed range:	28 to 1400 r. p. m.
Feed range:	12 to 1200 mm./min.
Output of motor for electric drive:	27 to 41 H. P.
Weight:	9000 kg.

STROJEXPORT



07/021
Knee Type Milling Machine
FA 5 u

The machine is intended for economic milling of all kinds of material by means of high speed or carbide tipped cutting tools. Equipment for uniform milling and automatic working cycle of the longitudinal table.

Dimensions of table:	400×2000 mm.
Speed range:	18 to 1400 r. p. m.

STROJEXPORT

07/022
Milling Machine FRE 03

This unit head milling machine is intended for the machining of plane surfaces, with a high accuracy in both single part and multiple part production. The operation of the machine is concentrated in one place. The feed of the table is infinitely variable.

Working area of table:	800×2000 mm.
Feed of table:	2000 mm.
Spindle speed range:	28 to 900 r. p. m.
Distance between spindles:	250-850 mm.
Output:	28 kW.

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07/023
Vertical Milling Machine FV 1000

intended for the machining of heavy and complex workpieces in single part and multiple part production.

07/025
Bench Drill V 10 A

Width and length of table:	1000×3150 mm.
Maximum height of workpiece:	1000 mm.
Longitudinal travel of table:	2800 mm.
Vertical travel of headstock:	600 mm.
Cross feed of slide:	1100 mm.
Weight:	22,000 kg.

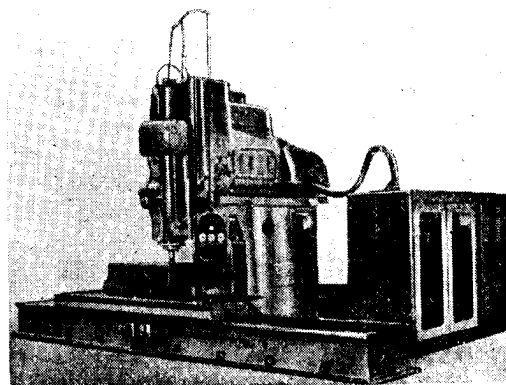
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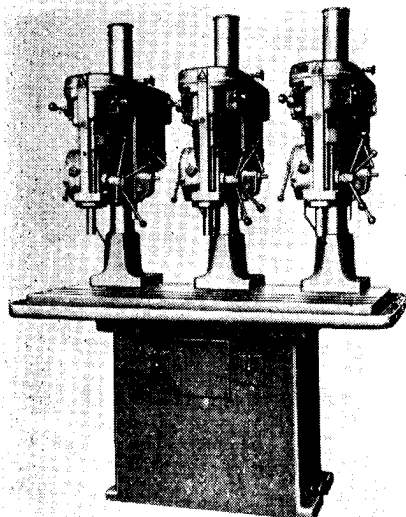
07/025
Bench Drill V 10 A

A medium type drill of a complete line of drilling machines. Wide speed range. Vertically adjustable headstock. Own cooling pump. Own illumination.

STROJEXPORT

07/023





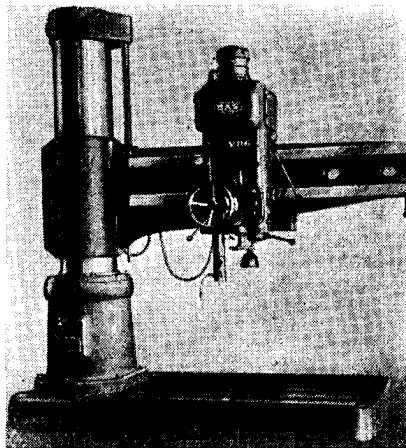
07/026

**07/026
Upright Drill V20/3**

Three spindles.

Drilling diameter: 20 mm.
Working surface of base plate: 1400×450/3 mm.

STROJEXPORT



07/027

**07/027
Radial Drill VR 6**

Used for drilling holes and screw cutting in large workpieces of intricate shapes. Suitable for both single and multiple part production.

Maximum diameter in drilling holes in steel of 60 kg/sq. mm. tensile strength
Spindle stroke: 380 mm.
Spindle speed: 14
Number speed range: 16 to 1400 r.p.m.
Higher speed range: 20 to 1800 r.p.m.
Floor space required: 5900×3750 mm.
Weight: 6400 kg.

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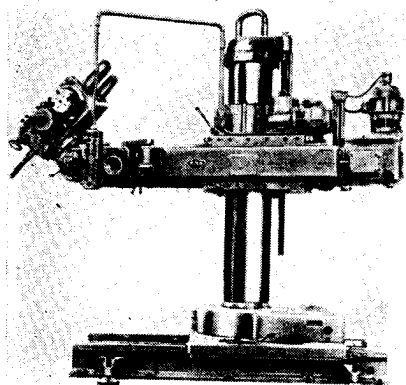
07/028

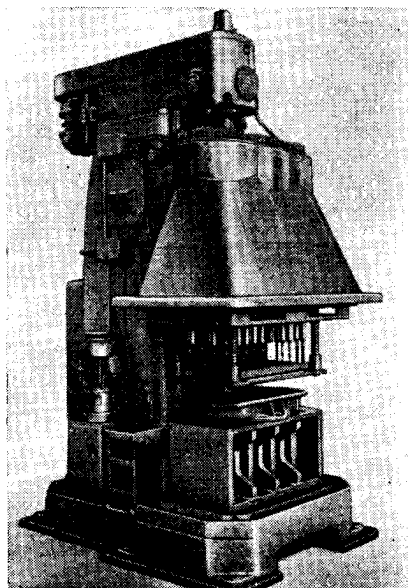
**07/028
Rotary Drill VRM 50**

Intended for drilling, turning and trueing holes and cutting threads in large workpieces in all directions. Especially suitable for use in mechanical workshops and assembling shops for the manufacture of bridges, boilers as well as in shipyards.

Drilling depth: 350 mm.
18 spindle speeds.
Spindle speed range in either direction: 16 to 800 r.p.m.
Spindle feeds: 6
Range: 0.035 to 2.2 mm/rev.
Weight: 7200 kg.

STROJEXPORT





07/031
Universal Grinder BUA 31

intended for grinding external cylindrical and tapered surfaces as well as holes and planes with swivelled wheel head by 90°. Suitable for longitudinal and recess grinding with automatic wheel head travel. The machine is also suitable for use with the contact diameter meter.

Swing over table:	315 mm.
Distance between centres:	1000 mm.
Longitudinal travel of table:	1250 mm.
Cross travel of wheel head:	170 mm.
Wheel head motor:	7.5 kW.

STROJEXPORT

07/033
Horizontal Surface Grinder BRH 25

The machine is suitable for grinding of plane surfaces in both single part and multiple part production. The drive of the machine is hydraulic, and all movements of the machine are hand or automatically controlled. The grinding wheel is of rigid design.

Clamping surface of table:	250×800 mm.
Maximum grinding width:	250 mm.
Maximum grinding length:	800 mm.
Longitudinal travel of table:	1000 mm.
Cross travel of wheel head:	310 mm.
Output of wheel head motor:	2.4 kW.

STROJEXPORT

07/030

07/029
Multi-spindle Drilling Machine VM 8

Intended for drilling, counterboring, reaming and cutting threads in single as well as in multiple part production.

Number of spindles:	36
Maximum diameter of drill:	20 mm.
Spindle speed range:	63 to 500 (125 to 1000) r.p.m.

Size of drilled surface: 1200×630 mm.

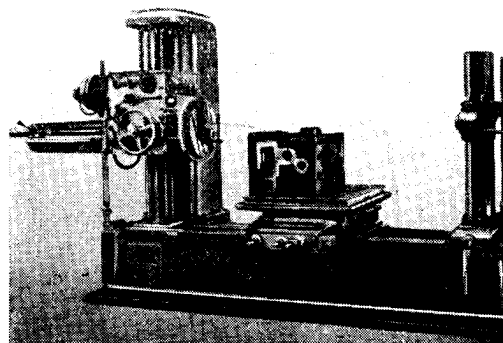
STROJEXPORT

07/030
Horizontal Boring Machine H 63A

Used for precision drilling, boring, milling, thread cutting, reaming and facing of various parts.

Diameter of work spindle:	63 mm.
Maximum diameter in boring with work spindle:	355 mm.
in turning with tool slide:	560 mm.
Maximum drilling depth with one feed:	800×1000 mm.
Clamping surface of table:	8 to 1400
Spindle speed range:	r.p.m.
Output of electric motor:	4 kW.

STROJEXPORT



07/035
Lathe Tool Grinder BBT 350

intended for cutting the cutting surfaces of cemented carbide tipped tools. Dimensions of grinding wheels:

External diameter:	350 mm.
Internal diameter:	270 mm.
Width:	100 or 70 mm.
Speed of grinding wheel:	1560 r. p. m.
Size of tables:	210×560 mm.
Hand adjustment of tables:	95 mm.
Maximum angle of tilt of tables:	± 15.
Electric motor:	
Speed:	1420 r. p. m.
Output:	2 H.P.
Weight:	820 kg.

STROJEXPORT

07/038
Crankshaft Grinder BKU 63

intended for grinding main and big end journals of crankshafts. Also suitable for grinding crankshafts. This machine finds use especially in repair shops.

Grinding diameter:	630 mm.
Distance between chucks:	2000 mm.
Distance between centres:	2330 mm.
Maximum eccentricity of pins:	140 mm.
Output of electric motor of grinding wheel head:	8 kW

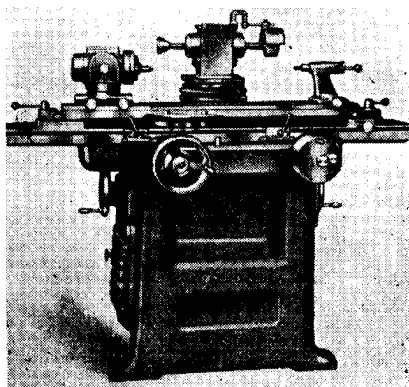
STROJEXPORT

07/036
Universal Tool Grinder BN 102

The machine is intended for sharpening cutting tools, such as cylindrical and tapered reamers, end side milling cutters with straight or helical cutting edges, recessed milling cutters, taps and countersinks. It is also suitable for grinding internal and external cylindrical and horizontal surfaces.

Grinding diameter:	280 mm.
Distance between centres of wheel head and tailstock:	500 mm.
Vertical travel of wheel head:	230 mm.
Longitudinal travel of table by hand:	440 mm.
Cross travel of table:	240 mm.

STROJEXPORT



07/036

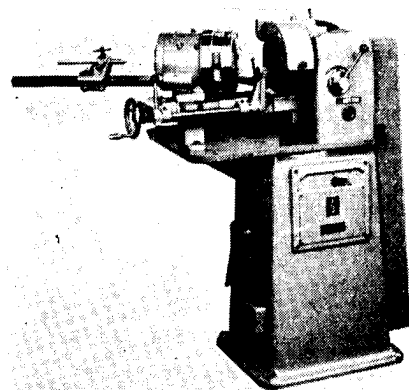
07/037

07/037
Twist Drill Grinding Machine BNV 75

for cutting the cutting edges of twist drills.

Minimum diameter of twist drill:	6 mm.
Maximum diameter:	75 mm.
Minimum apex of drill:	800
Maximum apex:	160°
Swing in rest:	90 mm.
Output of electric motor:	0.75 kW.

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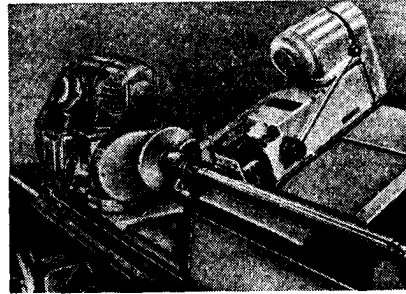


07/039
Machine for Superfinishing
Cylindrical Surfaces IDSV 3

The machine is designed for single part production or in small series. It finds use especially in the machine tool industry and is also suitable for the production of rolling mill rollers and the machining of functional surfaces of slide bearings and accurate and highly stressed shafts. The attachment can be mounted on the carriage of a lathe or on the plain grinding machine.

Working pressure: 10 to 80 kg.
 Cross feed of quill: 20 mm.
 Clamping surface: 120×360 mm.
 Output of electric motor: 0.3 kW

STROJEXPORT



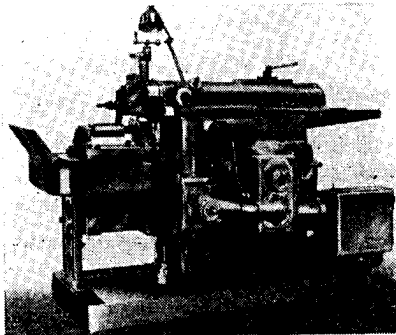
07/039

07/042
Shaping Machine HO 40

The machine is intended for shaping workpieces up to 300 kg. in weight in single part and small series production. It is also available with hydraulic copying attachment.

Maximum shaping length: 400 mm.
 Clamping surface of table: 400×360 mm.
 Maximum pulling power: 650 kg.
 Output of electric motor: 3 kW

STROJEXPORT



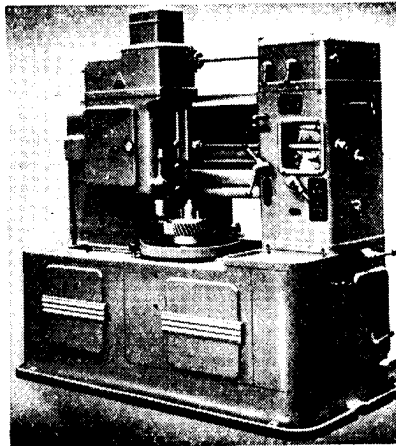
07/042

07/044
Gear Shaper OH 6

The machine is suitable for the production of internal and external spur, helical and herringbone gears, gear segments, gear tooth type clutches, ratchets, cams, polygon and other shaped holes, etc. The working cycle of the machine is semi-automatic.

	Internal	External
	Gears	
Maximum diameter of spur gears	500	500 mm.
Minimum diameter of spur gears	50	50 mm.
Maximum diameter of gears	90	90 mm.
Maximum module	6 mm.	
Number of strokes per min.	50 to 315	
Bore of table	75	
Output of main electric motor	3 kW	

STROJEXPORT



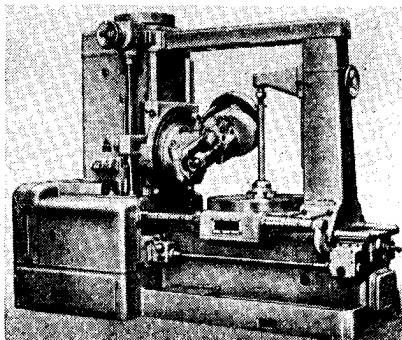
07/044

07/045
Gear Hobbing Machine OF 10

The machine is intended for the production of spur, helical and worm gears. Special attachments enable the worm gears to be cut by the individual indexing method by means of a side milling cutter, or by the tangential method by means of a hobbing cutter.

Maximum module:	10 mm.
Diameter of work table:	850 mm.
	20 to
Hob spindle speed range:	125 r. p. m.
Number of longitudinal feeds of work table:	36
Longitudinal feeds per one table revolution:	0.05 to 1.5 mm.
Number of vertical feeds of hob slide:	36
Vertical feeds per one table revolution:	0.2 to 6 mm.
Output of main electric motor:	7.5 kW

STROJEXPORT



07/045

gearbox cover. The machine is four-sided. The vertical drilling unit carries a six-spindle drilling bar head. The clamping of workpieces is pneumatic.

Output: 40 pieces per hour.

STROJEXPORT

07/047
Automatic Lathe ANK 90

for squaring the ends and machining the holes of conveyor bearing tubes. The working cycle is automatic, and the operator merely inserts the tubes into the magazine. The working cycle is controlled by electric relays and electromagnetic valves. The tubes are fed and clamped pneumatically.

Maximum diameter of tube:	90 mm.
Minimum diameter of tube:	60 mm.
Maximum length of tube:	850 mm.
Minimum length of tube:	240 mm.
Speed of work spindle:	315 r.p.m.
Output of motor of the drilling unit:	3 kW
Weight:	2100 kg.

STROJEXPORT

07/048
Unit Head Machine 77073

for the machining of front wheel hubs. It drills, roughens, chamfers and cuts threads. The clamps for hand clamping are on a revolving drum. The positioning and revolving of the drum is hydraulic, the working cycle is automatic.

Output: 85 pieces per hour.

STROJEXPORT

07/049
Unit Head Machine 77077

used for the machining of the rear

07/050
Fine Boring Machine B 2

The machine is designed for machining the engine body and exhaust cover. Hydraulic clamping.

Number of headstocks:	2
Number of clamps:	2
Output:	30 pieces per hour.

STROJEXPORT

07/051
Automatic Production Line LX 1 for the machining of connecting rods

The feeds of plates with clamps, the feed of work units and the accurate adjustment and clamping of plates are hydraulic. These movements are hydraulically interconnected so that no movement can be started before the preceding one has been completed. The electric controls are concentrated on the control desk. By means of push-buttons, located on this desk, the various functions of the machine can be switched on or off during operation. By means of a safety switch the whole line can be promptly disengaged. The motors are provided with a signalling equipment. Two operators are required for the control of this line.

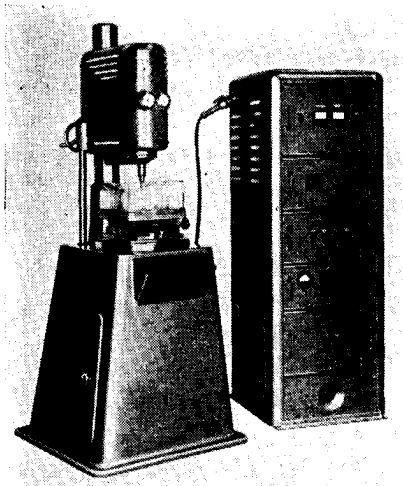
STROJEXPORT

07/053
Ultrasonic Drilling Machine
UzV 1-20

The machine is intended for the manufacture of small dies, drawing dies, irregular holes and recesses and punching holes in hard and brittle materials (metals or other materials), such as glass, germanium, ceramic materials, sapphire or diamonds.

Approximate input:	2100 W.
Accuracy:	10-3 mm.
Operating speed:	350 cu.mm. (glass), 20 cu.mm. (SK metal).

STROJEXPORT



07/055
Electric Spark Micro-Perforator
VJ 03

intended for making holes, 0.05 to 0.8 mm. in diameter, in hard and tough materials and cemented carbides.

Diameter of table:	100 mm.
Maximum input:	0.4 kVA.

STROJEXPORT

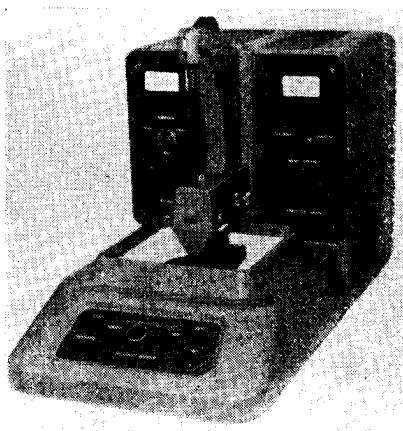
07/053

07/057
Electric Spark Erosion Die Cutter
VJK 2

used for the manufacture of medium and large size moulding tools of cemented carbides and tool steels.

Maximum machined surface:	10,000 sq.mm.
Automatic spindle stroke:	250 mm.
Maximum dimensions of workpiece:	350×300×250 mm.

STROJEXPORT



07/055

07/058
Electric Spark Thread Cutter ZJ 1

used for making threads in holes of cemented carbides and hardened steel tools.

Working range:	M2 to M14.
Five machining steps with automatic process regulation.	

STROJEXPORT

07/059
Small Ultrasonic Perforator VU 3

used for machining of hard and tough materials, such as ceramics, precious and semi-precious stones, cemented carbides and the manufacture of fine tools, various shaped tools and cavities of the hardest conductive or non-conductive materials. *STROJEXPORT*

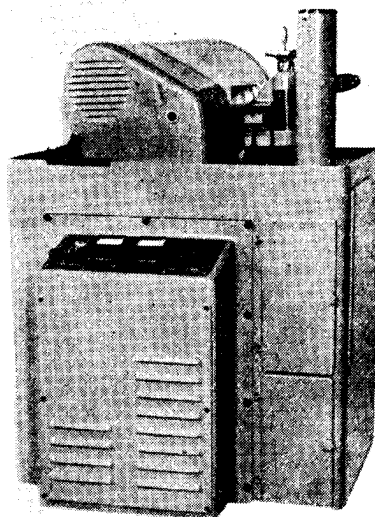
07/060

**Anode-Mechanical Electric Spark
Erosion Saw for Small Sections
PA 30**

The machine is used for cutting of hard and tough materials, cemented carbides and special alloys, about 30 mm. in diameter.

Maximum diameter of cutting disc: 300 mm.
Output: 2 kW

STROJEXPORT



07/061

**Electric Spark Inscribing Needle
IJV 3**

used for making inscriptions in metal objects. The needle leaves a permanent mark. Approximate output: 0.5 metre per min.

STROJEXPORT

07/060

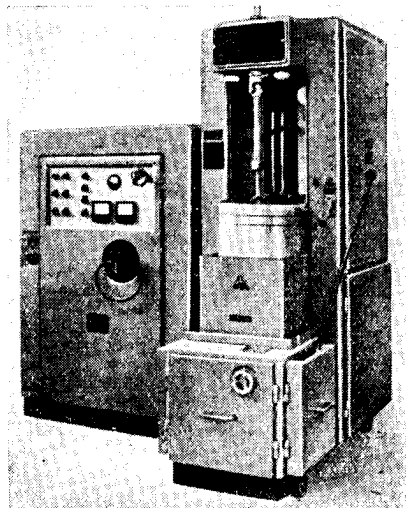
07/063

Hardening Machine EKS 30

The machine is a universal semi-automatic machine for the surface hardening of small parts up to 20 kg. in weight, used both in single part and multiple part production.

Maximum diameter of hardened part: 300 mm.
Length: 600 mm.
Input: 0.75 kW

STROJEXPORT



07/063

07/064

H. F. Induction Generator GV 21

The machine serves for direct heating or it finds use with other appliances, such as hardening machines, etc.

Maximum permanent H. F. output: 15 kW
Input at a full load: 75 kW
Frequency: 450 kc/s
Output voltage: 5 kVef.

STROJEXPORT

07/068

Abrasives:

Corundum, CARBORUNDUM, ELECTRITE A, ELECTRITE 99, ELCARBO grinding wheels. Porous cutting and dressed wheels. Grinding stones and files,

segments, abrasive cloths and papers. Dental grinding wheels. Ceramic plates for machining metals. *CERAMICS*

08 FINISHING EQUIPMENT

08/001

Magnetic Thickness-Gauge

Intended for measuring the thickness of surface coatings on ferromagnetic bases. Measuring ranges: MT 1: 100 to 500 microns with a mean quadratic deviation of ± 10 p. c. MT 2: to 100 microns with a mean quadratic deviation of ± 10 p. c. Novelty: Limit magnetic thickness-gauge for rapid measuring in quantity production. Measuring range: adjustable from 10 to 500 microns.

08/002

Automatic Viscosity Regulator and Recorder for Paints and Similar Liquids

It measures, registers and maintains viscosity at the required value. Viscosity is determined by remote measuring the length of the ball in a tube. Measuring range: 10 to 2000 est or above, according to the diameter of the ball.

08/003

Pilot Plant Station for the Neutralization of Acid Waste from Pickling and Electroplating Plants

The method consists in adding continuously lime milk to the acid waste and filtering the acid waste after neutralization and coagulation of metal salts. Output: 8 cu. metres per hour.

08/004

Automatic Dipping Plant for Electrical Resistors, Type LAO 153

used for coating resistors by dipping (values 1 W, $\frac{1}{2}$ W, $\frac{1}{4}$ W). The resistors are inserted into the machine in a magazine. Dimensions of the box: 4500 \times 1100 \times 2300 mm. Capacity: 12,500,000 resistors in 200 working shifts.

08/005

Sherardizing Process Using Zinc Ashes

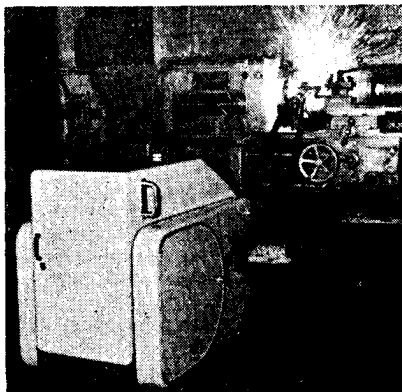
The process consists in coating steel or cast-iron parts with zinc. The ferro-



08/001

zinc alloy, produced on the surface, protects the parts against corrosion and water. It is especially suitable for screws, nuts and small parts. The service life of the coating is 10 to 15 years without maintenance being required. Output per 24 hours: 3 tons of small parts (such as M 12 nuts). 1 sq. metre of coating = 20 kg of M 12 nuts. Costs of 1 sq. metre of coating: 7.— Cz. Cr.

08/006



08/006

Electrometallizing Semi-Automatic Gun, Type EMP/2/57

with electrode arc melting, designed for spraying steel, aluminium, brass, bronze and other alloys. Diameter of metallizing wire (electrode): 2.5 to 3 mm. Output of steel: about 40 kg per hour. Weight: 150 kg.

08/007

Metallizing Gun, Type AD1

intended for spraying worn parts with all metals.

08/008

Airless Spraying Equipment for Electrostatic Fields

By means of this equipment, workpieces, suspended on the conveyor, are sprayed with paints. As compared with handspraying, an economy of about 50 p. c. is obtained. Several spraying units can be located in the booth. Minimum speed of conveyor: 1.5 metre per min. Input 5 kW, voltage 70 to 150 kV. Quantity of sprayed paint through one nozzle: 0.03 to 0.06 litre per min.

08/009

Chromium Diffusion Plant for the Treatment of Steel Components Designed to Substitute Brass

The chromium plated surface resists corrosion and heat up to 1000 °C. Low-carbon steels are used to replace brass. Output of the VUOM plant: 500 kg of small parts (M12 nuts) per 24 hours.

08/010

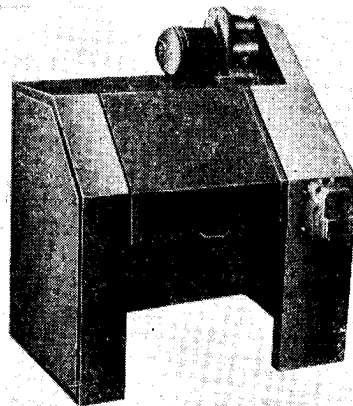
Bright Galvanizing Plant with Automatic Control of Current Density

After cathode-anode degreasing follows acid copper- and nickel-plating with bright decorative chromium plating. Novel are bright acid copper-plating and automatic control of current density by means of d. c. sets with new regulators. The output is 200 up to 400 p. c. higher as compared with that of the old baths.

08/011

Cement Hand Grinder

The grinder has three planetary ceramic tools (e. g. grinding, polishing and cleaning wheels). It is easy to control, light and suitable for grinding cements, polishing paints and cleaning plane or slightly curved surfaces. Output: 3.0 cu. metres per min. Weight: 1.50 kg.



08/012

08/012

Barrel Finishing Equipment

designed for polishing and finishing large quantities of various small parts. It consists of four barrels (barrel working space of 400×400 to 500×600 mm in dia.), a few magazines for finishing preparations, a separator for the separation of finished goods, and the finishing preparation.

08/010





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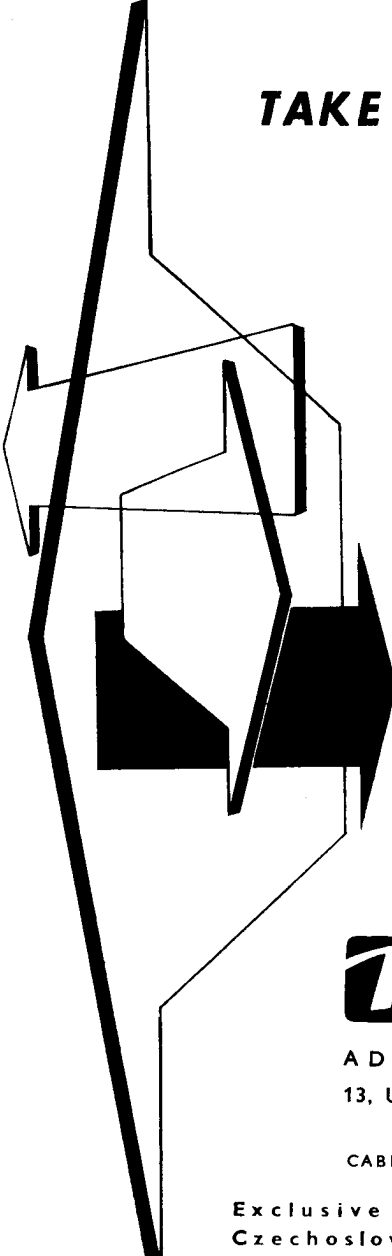
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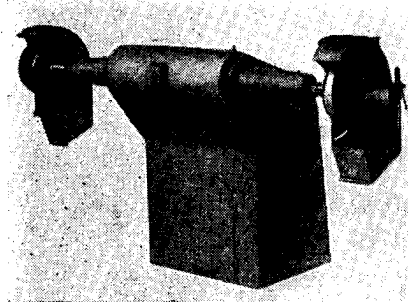
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08/013

08/013
Universal Belt Polishing Machine,
Type ULS

suitable for grinding or polishing operations for all workshops where the speed has to be changed. The machine has two spindles. Ranges: 1580, 1780, 2000 or 2300 r. p. m.

Belt Polishing and Grinding
Machine, Type LSP 630 D

The machine has two spindles for manual grinding and polishing or belt grinding. Each spindle is provided with its own electric motor. Ranges: 1380, 1560, 1705 or 2000 r. p. m.

08/014
Bell Plating Machine, Type ZAP

The machine is used for plating small metal parts. Bell plating capacity: 25 or 50 litres. By replacing the bell and immersion cathode, the ZAP 25 type can be easily converted into the ZAP 50 type and vice-versa. As compared with machines of older type, half the time is required.

08/015
Barrel Plating Machine

The machine which is suitable for the plating of a large quantity of small metal parts, consists of two tanks. One tank contains the plating bath while the parts are rinsed with water in the other tank. The perforated plating barrel moves from one tank to the other by means of a rotary arm which derives its movement from the hydraulic cylinders between the tanks.

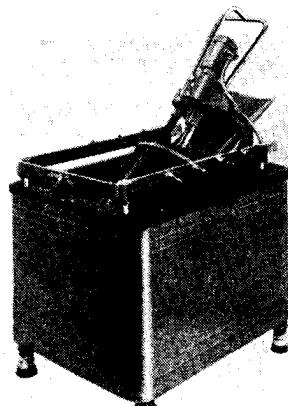
08/016
Hot-Dip Plastic Coating

The pulverised plastic material (polyamide, polyethylene) is whirled up by compressed air in the tank into which the sprayed and preheated part is dipped. The fused powder forms a non-porous firm coating which resists corrosion, wear and breakdown voltage. The part is coated within 6 to 10 seconds; thickness of the coating: 0.4 to 1 mm.

08/021
Air-Cooled Polishing Wheels

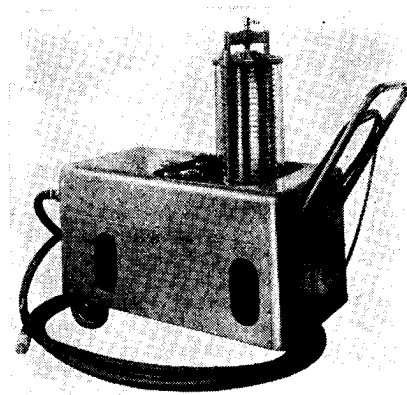
used for polishing parts made of metal or plastics which must not be excessively heated. The wheels can be wound of any fabric.

08/014



08/022
Liquid Abrasive Honing Plant

The part is honed and sprayed with a mixture of the abrasive, water, wetting agents and inhibitor by means of compressed air. The parts are fed mechanically under the nozzle. Output: 8 sq. metres per hour.



08/023
Filtering Apparatus

used for filtering all galvanising baths, the chromium bath excepted. It is especially suitable for filtering bright galvanizing baths.

08/024
Anode Holders

08/026
Vapour Degreasing Machine,
Type 20/6

The machine degreases various parts in chlorated hydro-carbon vapours (perchloroethylene, trichloroethylene). All kinds of grease, oil, resin, pitch, tar, paraffin, sulphur, etc. are easily dissolved in the vapours.

08/027
Tank Degreasing Machine, Type
VOS - 0,2 - E

The machine which degreases parts of various dimensions, is especially suit-

able for repairs of machines and vehicles.

08/029
Pressure Tanks

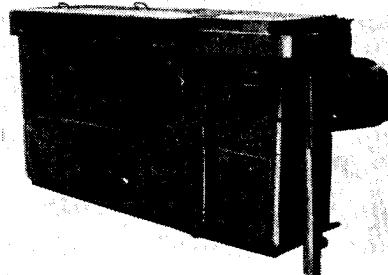
08/030
Spray Guns

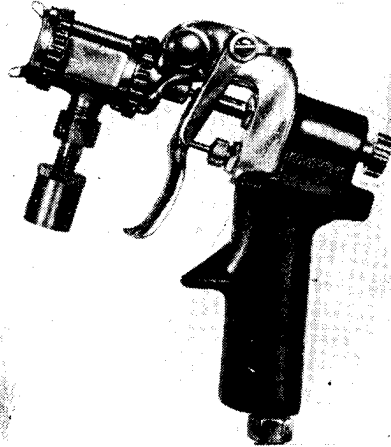
designed for spraying parts of all shapes with paints and cements; KF 1 litre with bottom tank. KF 1/2 litre with bottom tank. KN 1/4 litre with upper tank. KN 1/2 litre with upper tank. KFT, connected to a 30 or 60 litre pressure tank. LT1 in five designs with tanks of various dimensions and connections (for spraying inaccessible parts or cavities, extensions are used which enable direct or side spraying). KFO spray guns for hot spraying, with air and paint heater (the paint is supplied from the pressure tank). DS 1 for spraying smaller surfaces (decorative spraying of porcelain, glass, earthenware, for stencil work, publicity and advertising purposes). VH 1 - exhaust guns, designed to remove small particles of impurities, dust, etc.

08/031
Hardness Pendulum Tester

The hardness or progress of drying of the film of paint is ascertained by means of a 500 kg pendulum of a special shape.

08/026





08/030

08/032

Dynamic Corrosion Testing Device

The device enables to follow up the corrosion of materials in flowing liquids or strongly aggressive media at temperatures up to 300 °C and a maximum pressure of 4 atm. Rate of flow: 70 litres per min.

08/033

Pneumatic Roughness Hammer

The hammer prepares surfaces prior to metallizing or coating, in places where they cannot be sprayed. It is also suitable for sectional surfaces, such as corners, rivet heads, etc. Output: 1 sq. metre per hour at an air consumption of 15 cu. metres per hour.

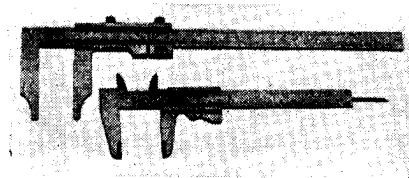
09 PRECISION TOOLS AND MEASURING INSTRUMENTS

09/001

Precision measuring instruments

Optical dividing head

for manufacturing of gears by means of the dividing method, and, in addition, for checking the accuracy of division.



Slide calipers

in various lengths for measuring ranges of from 140 up to 2000 mm, with an accuracy of 1/10, 1/20 and 1/50 mm.

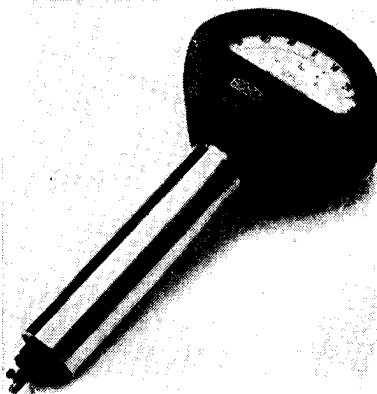
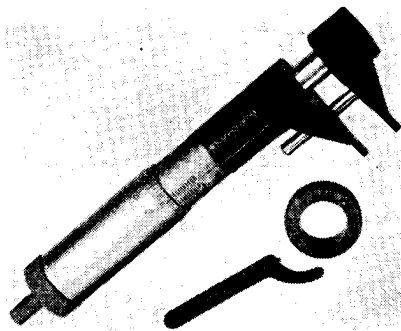
Micrometers

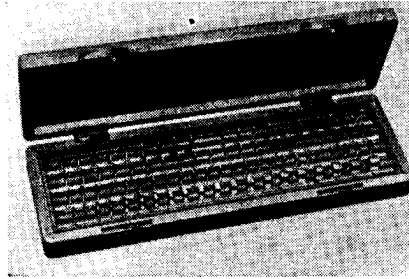
in many types and ranges including those for special purposes (for sheets, threads, etc.).

Gauge blocks

in three degrees of accuracy; used as basic elements for testing measurements.

KOVO





"Microcator" measuring head

a high-sensitivity dial gauge for checking of extremely small differences.

KOVO

Air gauge instrument

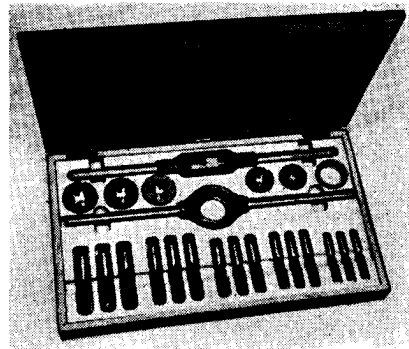
for checking of differences in the dimension to be measured in a considerably increased ratio; up to five secondary gauges can be connected to the principle instrument, thus enabling a number of various dimensions to be measured simultaneously.

KOVO

"Micropassameter"

a micrometer with a built-in dial gauge; connects the advantages of a micrometer and a snap gauge with those of a dial gauge.

KOVO



09/051

Cutting tools

spiral drills, reamers, roughing reamers, counterbores, cutters, metal slitting saws, lathe cutting tools, thread cutting tools.

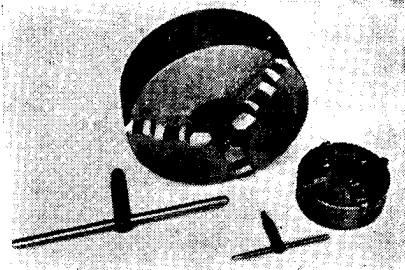
09/051

KOVO

M 4 Scraping gear

for machining of gear teeth as a substitute for costly finishing of gears by grinding.

KOVO



09/071

Clamping tools

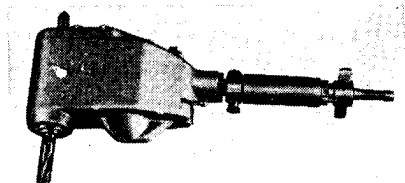
universal lathe and drill chucks, vices, etc.

KOVO

"Perfector" electro-magnetic fixing apparatus

for drawing and checking workshop work.

KOVO



09/081

09/081

Air-operated tools

metal grinding machines, metal drilling machines, drilling hammers.

KOVO

09/091

Industrial stones

from natural agate and synthetic sapphire. *KOVO*

Hardness Testers

for rapid hardness testing of metallic materials. *KOVO*

09/101

Tapping attachment

in five sizes according to the thread to be cut; the magnitude of the cutting resistance is controlled by depressing the springs of the ball-coupling by means of a pressure ring which is fixed in the set position by means of a screw. For the operation of these attachments no special-type taps are required.

KOVO

09/111

Broaches with inserted tools
(for key-profile)

(for key-profile). The fundamental part is formed by the broach body made from case hardening steel to which the drawing, guiding and working teeth are attached; a worm-out or damaged component can be exchanged by a spare one. *KOVO*

09/121

Continuous rolling of trapezoidal threads

A half of the screw is fitted with a thread by rolling between two discs which show the same profile of thread, however, with an angle of pitch different from that of the rolled thread; the discs are provided with cutting cones enabling the thread to be formed gradually. *KOVO*

CZECHOSLOVAK ECONOMIC BULLETIN

informs commercial circles and persons interested in this line on the trade relations of the Czechoslovak Republic with all countries of the world and its building up. Published monthly by the Chamber of Commerce of Czechoslovakia.

10/001

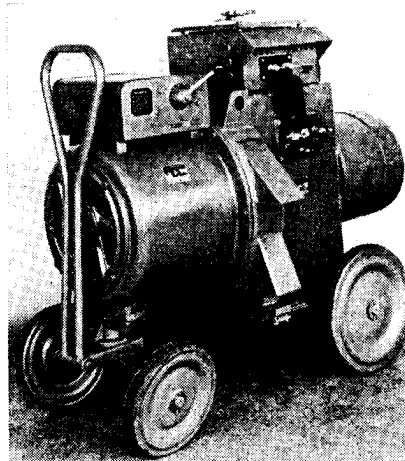
**10 WELDING
TECHNIQUE**

10/001

Triodyn K 320 Mobile Arc Welder

for welding of steel, cast iron and weldable non-ferrous metals from 0.8 mm thickness up to the thickest plates. It is provided with automatic switching off and is, therefore, particularly suitable for the building trade and assembly work. Rated motor output 14 kW, connection to mains 220, 380, 440 and 500 V, welding dynamo current range 30—320 Amp. Weight 320 kg.

STROJEXPORT



10/002

K - 200 Mobile Arc Welder

for manual welding of steel, cast iron and weldable non-ferrous metals. Especially suitable for lighter duty. Mains connection 220, 380 or 500 V. Rated motor output approx. 9 kW.

STROJEXPORT

10/003

TR - 150 Portable Arc Welding Transformer

single-phase, without a fan, suitable for lighter duty. Connection to mains 380 V, on request can also be supplied for 190, 220, 440 or 500 V; rated input 9.4 kW, range of welding current 15 to 155 Amp, constant output 125 Amp. Weight 96 kg.

STROJEXPORT

10/004

TR - 350 Mobile Arc Welding Transformer

with a fan, suitable for medium and heavy welding duty. Connection to mains 380 V; on request also for 190, 220, 440 and 500 V, rated input 29.2 kW, range of welding current 50—430 Amp., rated welding current 350 Amp. Weight 196 kg.

STROJEXPORT

10/005

BS - 320 Petrol-Engine driven Arc Welder

with a petrol engine, suitable for welding of steel, cast iron and weldable non-ferrous metals from 0.8 mm thickness to the thickest plates. Provided with a Škoda 1201 engine, output 30 H. P., 3000 r. p. m., fuel consumption 225 g/H. P./h, water cooled, with a fan. Range of the welding current from 30—320 Amp. Weight 700 kg (compared to the existing Diesel set it weights 1000 kg. less).

STROJEXPORT

10/006

T - 012 Argon - Arc Welder

portable, suitable for lighter indoor work, for welding of aluminium, conductors of smaller diameters. Connection to mains 220 V, range of the welding current 2.4—12.5 Amp. Weight 33 kg.

STROJEXPORT

10/007

T - 032 Argon - Arc Welder

for welding of aluminium conductors, aluminium alloys, copper, brass, stainless steel, nickeline, manganese, etc. It welds wires up to a diameter of 7 mm, conductors up to approx. 35 mm, sheets of 1 mm thickness or thinner. Connection to mains 220 V, input 7 kW, range of the welding current 4—32 Amp. Weight 93 kg.

STROJEXPORT

10/008

KA - 320 Triodyn Mobile Arc Welder

with auxiliary equipment for welding of aluminium and other hard weldable non-ferrous metals in a zone shielded by a covering of argon gas. Output 14 kW, range of welding current 30 to 320 Amp.

STROJEXPORT

10/009

T - 001 Portable Ionisator

for stabilization of the welding arc for welding of all kinds of material even for heavy duty. Connection to mains 220 V, max. welding current 500 Amp. Weight 20 kg.

STROJEXPORT

10/010

TR - 260 Mobile Welding Transformer

one phase, equipped with a fan suitable for medium heavy welding work. Connection to mains: 380 V, on request also for 190, 220, 440 and 500 V; input 16.7 kW, range of welding current 30 to 260 Amp., rated welding current 210 Amp. Weight 135 kg.

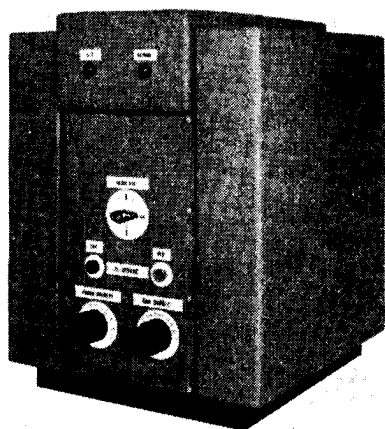
STROJEXPORT

10/011

Electronic Regulation Control for Miniature Spot Welder

enables synchronous switching on and off of the welding transformer and the regulation of welding output. Weight of the equipment including thyratrons approx. 40 kg.

STROJEXPORT



10/011

10/012
Electronic Regulation Control for Miniature Seam Welder

enables synchronous switching on and off of the welding transformer and the regulation of the welding output. Weight of the equipment including thyratrons approx. 40 kg.

STROJEXPORT

10/013
KSI - 200 Output Stage

of high capacity, one phase a. c. electric regulator. It is necessary to connect to the KSI-200 Output Stage the controlling part which must be adjusted according to the type and characteristics of the relevant machine. Weight of the apparatus including ignitrons is approx. 50 kg.

STROJEXPORT

10/014
Electronic Regulation of EROS - S 200 Seam Welder

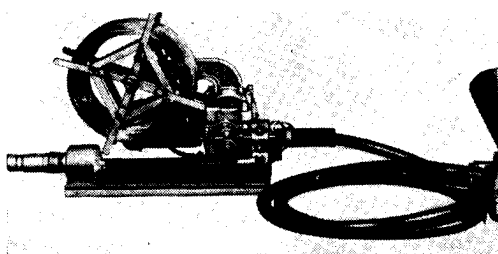
enables to control alternating current of the welding transformer by means of two electronic valve-ignitrons in cross connection.

STROJEXPORT

10/015
Electronic Regulation of EROS - U 200 Resistance Welder

enables to control the alternating current of the welding transformer by means of two electronic valve-ignitrons in cross connection. These valves are controlled according to the method of welding or type of the welder by means of an electronic relay. The method of control can be chosen by means of a switch.

STROJEXPORT



10/016

10/016
SPK - 600 Semi-automatic Welder

for submerged arc welding with automatic wire feed; the nozzle is moved in the direction of the weld manually. This welder is designed for welding of short or curved welds which could not be welded automatically. The diameter of the electrode wire is 1.6 and 2 mm, a. c. or d. c. welding current up to 650 A, contactor box supply voltage $3 \times 380 \text{ V} + 0.50 \text{ c/s}$ input of contactor's box without welding power source 500 VA.

STROJEXPORT

10/017
VUSCA - 266 Universal Submerged Arc Welder

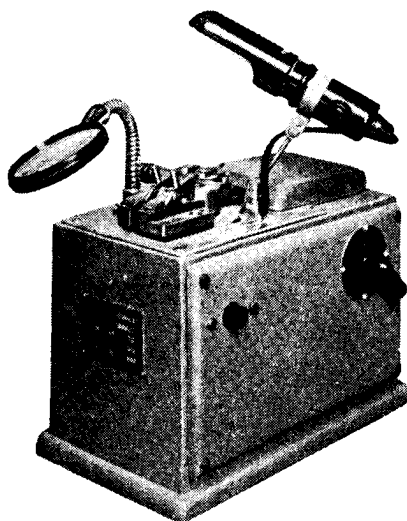
for welding of all types and positions of the weld. Diameter of the electrode wire 1.5, 3, 4 and 5 mm, a. c. or d. c. welding current, supply voltage $3 \times 380 \text{ V}$. Weight without contactor box approx. 25 kg.

STROJEXPORT

10/018
BP Pneumatic Automatic Spot Welder

is supplanting several former types and is suitable for light work. Input 10 kVA, output 2×3.5 mm (steel sheet).

STROJEXPORT



10/022

10/019
BK 60 Motor car Body High-speed Spot Welder

for body construction made of sheets of standard quality 0.8—1.2 mm. Electrode depth can be adjusted according to the size of the welded part by moving the upper arm and the extension of the lower arm. Throat depth 600 to 1200 mm, throat width 200—680 mm, primary voltage 380 V. Weight 1200 kg.

STROJEXPORT

10/020
KP - 60 Portable Gyroscopic Spot Welding

for mass production from clean sheets up to a thickness of 1.5 mm. Air pressure 5 atm., primary voltage 380 V.

STROJEXPORT

10/021
KP - 25 Suspended Spot Welding Gun

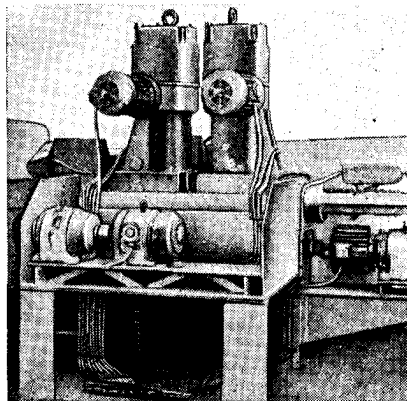
for welding of mass produced parts made of clean sheets up to thickness of 1.25 mm, air pressure 4 atm., primary voltage 380 V.

STROJEXPORT

10/022
TAK - 1 Thin Wire Butt Welder

for welding of steel wires of a diameter from 0.5—1.5 mm. Opening of clamping jaws 3 mm, primary voltage 220 V, four step control of welding current. Weight 15 kg.

STROJEXPORT



10/023

10/023
TAU - 80 Automatic Butt Welder

butt welding of cross sections up to 2500 sq. mm. Primary voltage 380 V. Weight 5200 kg.

STROJEXPORT

10/024
KPH - 20 Suspended Spot Welding Gun

for the manufacture of motorcar bodies, railway wagons and for the building industry. It welds clean sheet of 1.25 mm single thickness, air pressure 5 atm., primary voltage 380 V.

STROJEXPORT

10/025
TAK 8 P Mobile Automatic Butt Welder

for upset welding of steel, copper and aluminium wires. The welder is pneumatically controlled, the upsetting force is supplied by a spring which is tensioned automatically. Welding output steel wire 2—4 mm, primary voltage 220/380 V. Weight with the stand 96 kg. *STROJEXPORT*

10/026
RSO Micron Portable Oxygen Cutting Apparatus

for manual straight, circular and variously shaped cuts in material of a thickness from 3 to 80 mm. Electromotor 220 V, output 0.040 kW, 8000 r. p. m. Weight of the machine without accessories 6.5 kg. *STROJEXPORT*

10/027
L 54 Miniature Uniform Pressure Oxy-acetylene Cylinder Welding Set

for jewellers, dentists and for welding of paper mill sieves or sheets up to 1 mm thickness; the set has 5 welding nozzles. Weight of the torch with handle 200 g. *STROJEXPORT*

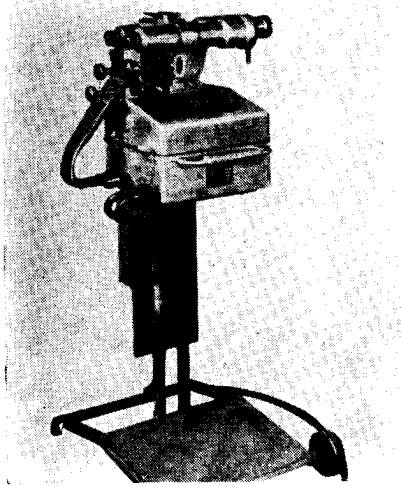
T 2 Welding Torches

for preheating for heat welding, for flame straightening, local annealing, welding of steel from 30 to 100 mm thickness and for other similar shaping of metal by means of flame. *STROJEXPORT*

PB Welding Torches

for manual welding of non-ferrous metals, brazing, annealing, etc., by means of propane-butane-oxygen burning mixture. *STROJEXPORT*

10/028
ROV Underwater Cutting Set
cuts by means of petrol oxygen flame steel parts and structures from 4 to 80



10/025

80 mm thickness under water up to a depth of 20 metres. *STROJEXPORT*

10/029
PSA Dissous Gas and PSPB Propane Soldering Set

The set is designed for soldering or brazing by means of dissous gas and air or by propane butane air mixture. All torches operate with a pressure of the burning gas of 0.2 to 1.5 atm. g. *STROJEXPORT*

10/030
Stop Valves

for opening and closing the flow of gas from steel cylinders.

K 8 Reduction Valve

is a single stage valve for reduction of oxygen pressure from steel cylinders or from high pressure pipe line to a working pressure of 0—8 kg/sq. cm. *STROJEXPORT*

VPK 250 Reduction Valve

for reduction of oxygen high pressure cylinder batteries to working pressure of the pipe lines of the industrial works central distribution system. *STROJEXPORT*

VPK 630 Reduction Valve

for reduction of oxygen cylinder batteries or oxygen tank cars to pipe lines of the oxygen central distribution system. *STROJEXPORT*

10/030

RN 3 Cutting Extension

for manual oxygen cutting with the use of oxy-acetylene or oxy-propane-butane mixtures. *STROJEXPORT*

RNK Circular Aperture Cutting Extension

for oxygen cutting of circular apertures of a diameter from 20 to 100 mm into steel parts. *STROJEXPORT*

RNN Cutting Extension for Rivet Heads

for manual cutting of rivet heads with a diameter of the shank from 10-50 mm. *STROJEXPORT*

10/030

R3 Cutting Torch

for manual oxygen cutting with oxy-acetylene or oxy-propane-butane mixture. *STROJEXPORT*

RT 1 Manual Oxy-acetylene Injector Cutter

for heavy duty in foundries and for cutting scrap iron. *STROJEXPORT*

KK I - II Torches for Hardening

with a copper nozzle made of one piece. *STROJEXPORT*

10/030

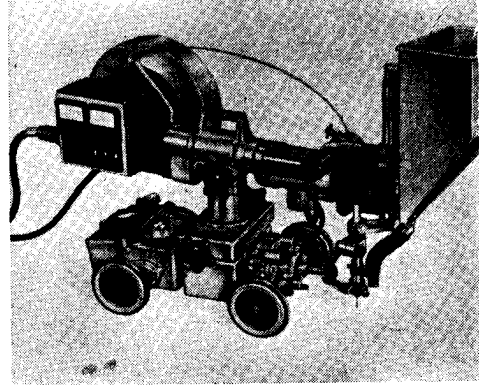
Multishaped Cutting Nozzles

are made in one piece of pure copper by a special cold shaping process. *STROJEXPORT*

10/031

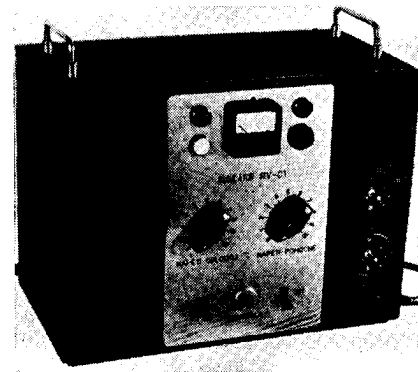
SUM 1000 Welding Tractor

single arc welding tractor for submerged arc welding is of small weight with a simple control and a possibility



10/031

of continuous setting of the main welding variables. Diameter of the welding wire: 1.6, 2, 2.5, 3.15, 5 mm, a. c. or d. c. welding current up to 1000 A, supply voltage 200 V, 50 c/s, input without welding power sources 0.6 kVA. Weight of the tractor 42 kg. *STROJEXPORT*

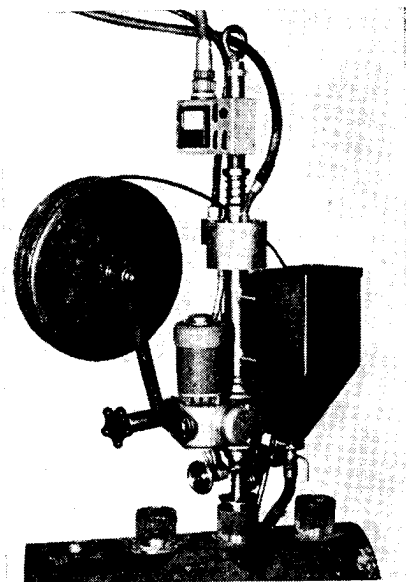


10/032

10/032

RV - 01 Output Regulator

for equalizing of long term and sudden changes in the mains voltage during automatic submerged arc welding which would influence unfavorably the geometrical dimensions of the weld, if the power source of the welding current is a single phase welding transformer. Rated voltage 220 V, 50 c/s, input of the regulator 10 VA. Weight 8 kg. *STROJEXPORT*



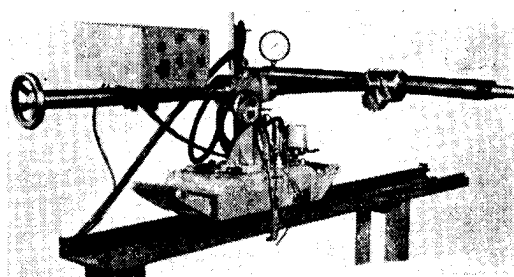
10/033

10/033
SKN - 500 Automatic Welder for Welding of Boiler Chamber Sockets

Can also be used in other cases if the conditions are about the same. Range of diameters of sockets from 30—110 mm, minimum diameter of the cylindrical preheating chambers 150 mm, electrode wire diameter 2 mm or 1.6 mm, d. c. or a. c. welding current up to 500 A. Weight of the welding head about 25 kg. *STROJEXPORT*

10/034
SAP 400 Semi-automatic Aluminium and Stainless Steel Welder

for welding in an argon shield. The consumable electrode is fed automatically, the welding head is moved manually in the direction of the weld. Electrode diameter: 1.2, 1.6 and 2.5 mm, d. c. welding current up to 400 A, the speed of feed of the electrode is from 2—12 m/min., argon consumption of 14—18 litres/min. *STROJEXPORT*



10/035

10/035
RNS 1000 Oxygen Cutting Machine

for oxy-acetylene cutting of low carbon steels, particularly in steel mills for cutting of risers, ingot heads and for cutting of large blocks for steel furnaces. Pressure of the cutting oxygen from 0.5 to 3 atm. g, speed of the carriage is continuously adjustable in the range of 1 to 18 m/h.

STROJEXPORT

10/036
MB 2 Miniature Spot Welder

is an automatic welder of the table type for welding of thin sheets and wires. Primary voltage is 380—220 V if subjected to electronic synchronized control and 380—200—120 V when controlled by time relay. Weight 40 kg. *STROJEXPORT*

10/037
Samples and Specimens of Welding Parts and Aids

(including smaller welding equipment). *STROJEXPORT*

10/038
A Model of BK 60 High-speed Spot Welder

STROJEXPORT

10/039
A Model of Pneumatic Welding Gun with a built-in KP 2 Transformer

STROJEXPORT

10/041

T 150 Argon Arc Welding Set

for manual arc welding of aluminium, magnesium and their alloys, non-ferrous metals, stainless steel, silicon steel, etc. Output 18 kVA. Weight 600 kg.

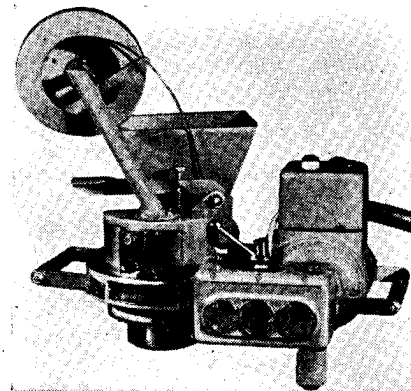
STROJEXPORT

10/042

T 350 Argon Arc Welding Set

for manual arc welding of aluminium, magnesium and their alloys, non-ferrous metals, stainless steel, silicon steel, etc. Output 42 kVA. Weight approx. 800 kg.

STROJEXPORT



10/043

SRK 300 Automatic Summerged Arc Welder of Boiler Staybolts

facilitates mechanical welding of boiler staybolts in the manufacture or repairs of fireboxes (for instance of locomotives). This automatic welder can also be used for other work if the conditions are about the same as with staybolts. Range of staybolts diameters from 17 to 32 mm, electrode dia. 2 mm, d. c. welding current approx. 280 A. Weight of the welding head 9 kg.

STROJEXPORT

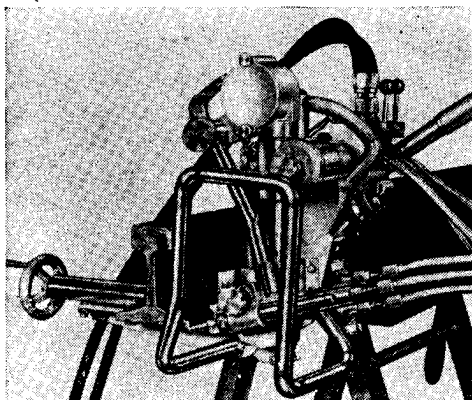
10/044

Automatic Rail Oxygen Cutting Equipment

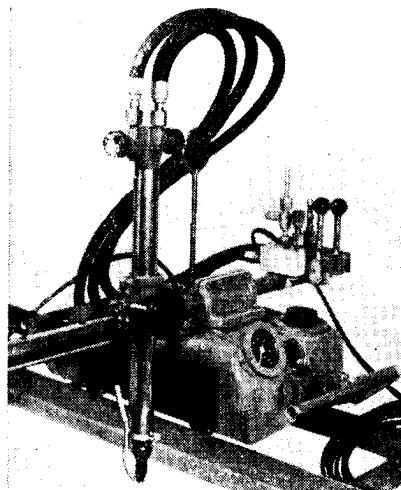
for rails of all known types up to the section height of 180 mm with the exception of grooved of rails. Cuts are suitable for connection of rails. Total cutting time, including clamping, is 2

minutes. Weight of the cutting machine without accessories is 20 kg.

STROJEXPORT



10/044



10/045

10/045

RZR 300 Equipment for Oxygen Metal Powder Cutting

of steel alloys, cast iron, non-ferrous metals and after special adjustment, of low carbon steel sheets in bundles. It operates on the principle of oxygen cutting with the delivery of metal powders to the cutting zone by means of the oxy-acetylene flame. Maximal thickness of the material cut (stainless steel 18/8) by means of a smaller torch 300 mm, by means of a larger torch 500 mm.

STROJEXPORT

10/046
VUS TS 3600 Pressure Flame
Hydraulic Welding Press

welds steel pipes up to 100 mm diameter and 8 mm wall thickness or round, "Roxor" reinforcement steel up to 60×60 mm area, i. e. of 3600 sq./mm total welding diameter. Maximum welding pressure 15,000 kg. Time necessary for one weld 1—2 minutes. Compared to the present methods it increases the output 5 times.

STROJEXPORT

10/047
VUS arg R 25 Aluminium Cutting
Set

for inert gas arc cutting of aluminium. It cuts sheet aluminium of a thickness from 8 mm to 25 mm. Cutting speed from 54 to 300 metres/h.

STROJEXPORT

10/048
VUS PH 30 Welding Gun for
Welding of Pvc and Polyethylene

for manual welding of Pvc and Polyethylene plates of a thickness from 1 to

30 mm. Thickness of the filler material from 2—5 mm. Welding speed 7.5 m/h. Welding current 200—300 W.

STROJEXPORT

10/049
VUS PL 10 Semi-automatic Flame
Flange Welder

Welds steel of a thickness from 0.8 to 1 mm without filler metal, welding speed 16 m/h. This semi-automatic welder increases the speed in comparison with manual welding by approx. 30% and the quality of the weld is much better.

STROJEXPORT

10/050
VUS arg Ms 3 Welder for Inert
Gas Arc Welding of Brass Strips

Welds sheet brass of a thickness from 2—3 mm without filler metal. Welding speed 21—27 m/h. Welding current 160 to 350 A. The output as compared with manual welding increases up to 4 times and the weld is homogeneous.

STROJEXPORT

11 OIL ENGINES

11/001
Two-Stroke Air-Cooled SLAVIA
Oil Engine 1D80

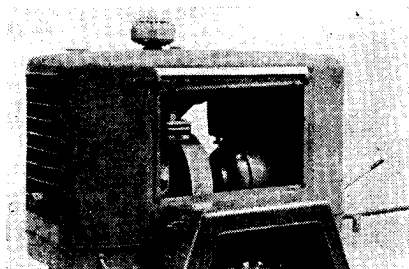
stationary, vertical with crankcase scavenging of 6.5 H. P. output and 2200 r. p. m. The engine can be started by hand or by electric power. Weight: 95 kg. It serves for driving, farming or building machines, generators, compressors, pumps or cable-ways.

STROJEXPORT

11/002
Single-Cylinder Two-Stroke Water-
Cooled SLAVIA Oil Engine 1D110

stationary, vertical with crankcase scavenging, of 16 H. P. output at 1800 r. p. m. The engine can be started by hand or by electric power. Weight: 195 kg. It is used for driving farming and building machines, generators, compressors, pumps, boats, etc.

STROJEXPORT



11/003

11/003
Single-Cylinder Four-Stroke Air-Cooled Oil Engine 1ST120

stationary, vertical of 16 H. P. output at 1800 r. p. m. The engine can be started by hand or by electric power. Weight: 280 kg. It serves for driving farming and building machines, generators, compressors, pumps, etc.

STROJEXPORT

11/004
Four-stroke water-cooled SLAVIA Oil Engine 1S100K

A stationary 9 H. P. engine at 1500 r. p. m., with belt-pulley, clutch and bonnet. The forged shaft is carried in ball bearings. The engine can be started by hand or by electric power.

STROJEXPORT

11/005-008
Low-Speed SLAVIA Oil Engines D5, D8, D12, D15

Stationary vertical four-stroke water-cooled engines.

	D5	D8	D12	D15
Output: H. P.	5	8	12	15
Speed: r. p. m.	900	800	700	650
Weight: kg.	270	360	500	700

They are used in agriculture, building trade and industry. *STROJEXPORT*

11/009
SLAVIA Diesel Generating Set with an Output of 7.5 kW

A stationary four-stroke water-cooled SLAVIA 1 S 100 A engine (mobile type) with pressure lubrication and 9 H. P. output at 1500 r. p. m.

STROJEXPORT

11/010
13.5 kW Diesel Generating Set

A stationary four-stroke water-cooled SLAVIA 2 S 100 A oil engine with pressure lubrication and 18 H. P. output at 1500 r. p. m., transportable type.

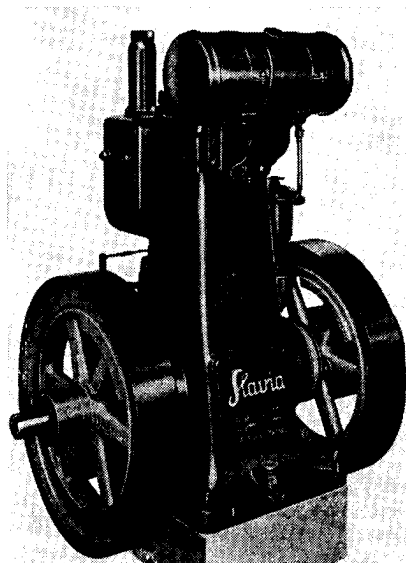
STROJEXPORT

11/011
1 L 100 A SLAVIA Marine Oil Engine

A four-stroke water-cooled oil engine with pressure lubrication and 9 H. P. output at 1500 r. p. m. with adjustable propeller. It is suitable for driving small ships.

STROJEXPORT

11/005—008



11/012
1L 110 ŠKODA Marine Oil Engine

A 15 H. P., 1500 r. p. m. four-stroke water-cooled oil engine with pressure lubrication, reversing and reduction gearbox, shaft guide and propeller, designed for driving small ships.

STROJEXPORT

11/013
Mobile Diesel Generating Set with ŠKODA 2S 110 Engine

The four-stroke twin-cylinder 30 H. P., 1500 r. p. m. engine is provided with a belt-pulley, clutch, radiator on frame and bonnet.

STROJEXPORT

11/014
50 kVA ŠKODA Mobile Diesel Generating Set

The ŠKODA 4S 110 four-stroke twin-cylinder engine with bonnet, has an output of 60 H. P. at 1500 r. p. m.

STROJEXPORT

11/015
Marine Diesel Generating Set with ŠKODA 4L 110 Engine

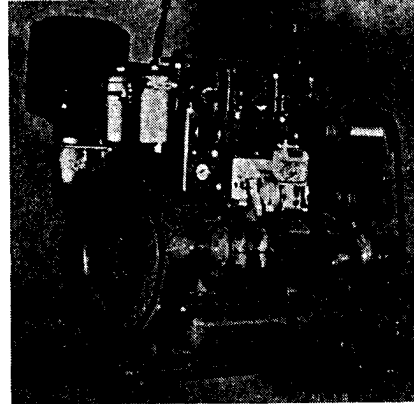
The water-cooled, four-stroke, four-cylinder engine is provided with a double-piston pump, air-starter, reduction and reversing gearbox, shaft guide and propeller. Output: 90 H. P. at 1500 r. p. m. Weight: 1540 kg.

STROJEXPORT

11/016
Marine Diesel Generating Set with ŠKODA 6L 110 Engine

The water-cooled, six-stroke, six-cylinder engine is provided with a double-piston pump, air-starter, reversing and reduction gearbox, shaft guide and propeller. Output: 90 H. P. at 1500 r. p. m.

STROJEXPORT



11/017

11/017
Two-Stroke ŠKODA 3 D 110 Oil Engine

A water-cooled, three-cylinder, two-stroke engine with an output of 65 H. P. at 220 r. p. m. and with electric starting. Weight: 480 kg.

STROJEXPORT

11/018
ŠKODA 4R 140 Oil Engine

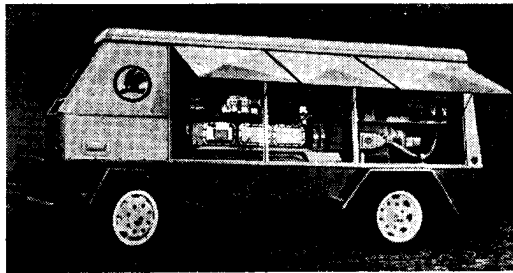
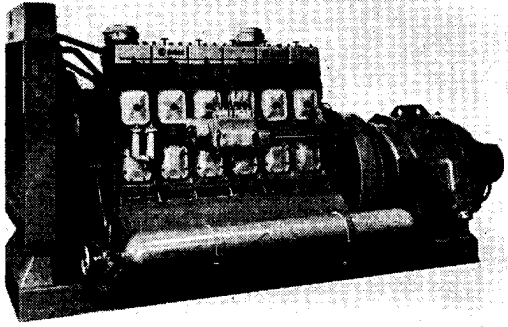
A vertical four-stroke in line oil engine with fuel injection into the pre-combustion chamber. Output: 114 H. P. at 1500 r. p. m. Electric starting. The engine finds use with power generators, compressors, pumps, etc.

STROJEXPORT

11/019
Automatic Emergency 150 kVA Diesel Power Station with ŠKODA 6 S 160 Engine

Pneumatic starter, automatic switching on or off, alarm signalling device. Speed: 1000 r. p. m. Output: 180 H. P. Water cooling. Generator output: 150 kW. The automatic emergency 150 kVA Diesel power station is used in hospitals, stores and banks where it provides an immediate supply of electric current when the power supply from the public net is interrupted.

STROJEXPORT



11/020

11/020
Mobile 125 kVA Diesel Power Station with ŠKODA 6R 140 Engine

suitable for use in open terrain, agriculture and on building sites. Maximum travelling speed (trailed): 60 km. per hour. All wheels are provided with air brakes. The special design ensures rapid transport and enables the set to be promptly set in operation in case of a break-down. Speed: 1500 r. p. m. Output: 170 H. P. *STROJEXPORT*

11/021
ŠKODA 6L 160 Oil Engine

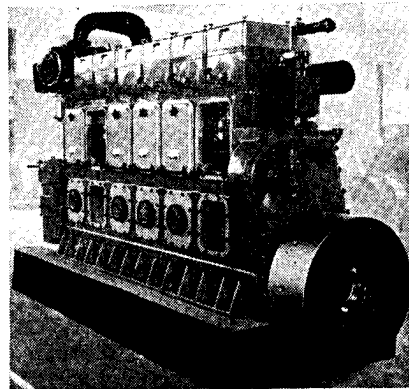
A water-cooled, four-stroke, six-cylinder engine. Speed: 750 r. p. m. Output: 135 H. P. *STROJEXPORT*

11/022
ŠKODA 450 kVA Diesel Generating Set

The set consists of a ŠKODA 6S 275 stationary oil engine with supercharging and 540 H. P., output at 500 r. p. m. The Diesel generating set

can be used for driving machines, compressor stations, pumping stations, as well as for lighting cities and villages.

STROJEXPORT



11/023

11/023
Direct Reversing ŠKODA 6L 275 PN Marine Oil Engine

with double piston pump, compressor, remote control, signalling and supercharging equipment, for use with passenger boats, tugs, etc. Output: 525 H. P. at 50 r. p. m.

STROJEXPORT

11/024
Rail Traction ČKD K 12 V 170 DR Oil Engine with Supercharging

A water-cooled, four-stroke, twelve-cylinder engine of a maximum output of 700 H. P. at 1400 r. p. m., with low-pressure supercharging, of 700 H. P. at 1400 r. p. m. with medium pressure supercharging, and of 800 H. P. at 1400 r. p. m. with medium pressure supercharging and intermediate radiator.

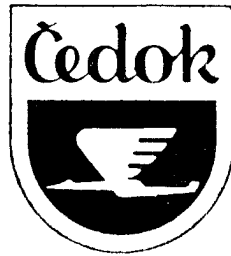
STROJEXPORT

11/025
DB - 1S72 - A Engine

A single-cylinder two-stroke air-cooled petrol engine of 5.3 H. P. rated output at 2300 r. p. m. It is designed for use with small agricultural and building machines, Weight: 68 kg.

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Machine, Waterproofness Testing Machine, Crease
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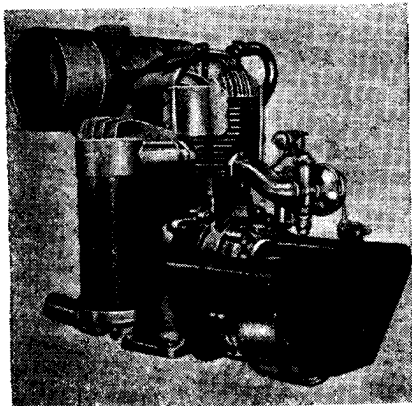
and a number of other instruments which are indispensa-
ble for up-to-date textile laboratories and testing rooms

Inspect our instruments of quality

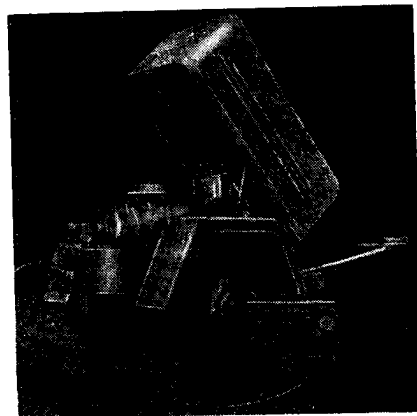
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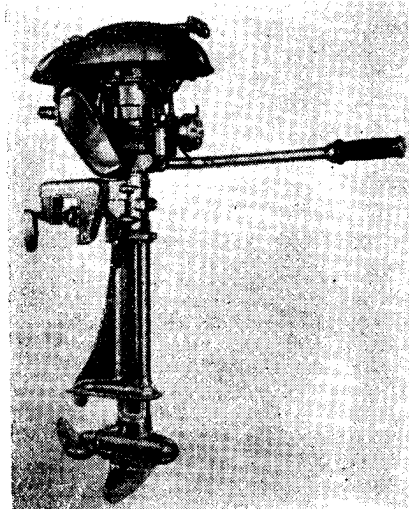
11/025



11/027

11/027
3.1 kVA Generating Set MV 214

Mobile, with petrol engine, designed for use with telecommunication amplifying equipment, communication service equipment, etc. It produces three-phase alternate current of 220/380 voltage and 50 c/s. *STROJEXPORT*



11/026

11/026
Auxiliary BD 1 H 45 L Marine Engine ("Orlik 3")

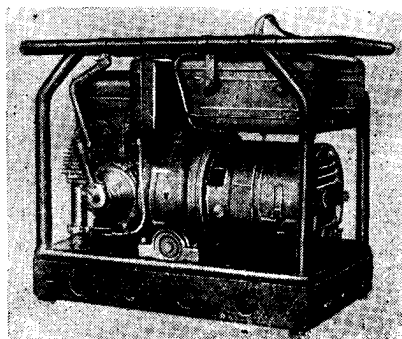
A two-stroke, water-cooled, single-cylinder engine to be attached to small boats, canoes, etc. Output: 2.5 H. P. at 4000 r. p. m. Weight: 14 kg.

STROJEXPORT

11/028
Automatic Emergency 3.1 kVA Power Station, Type MV 216

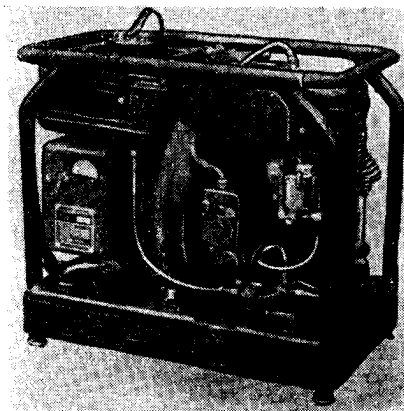
with petrol engine. The power station ensures the supply of electric power in case of break-down of the main power supply. *STROJEXPORT*

11/029



11/029
Mobile Petrol-Electric Generating Set ZB 6 ZG 53

The ZB 6 driving engine is a 1.5 H. P., 3000 r. p. m. two-stroke air-cooled engine. The ZG 53 generator is a two-pole, synchronous, single-phase type generator with own excitation, intended for continuous operation. 220 V, 2.6 A alternate current is generated. Weight: 65 kg. *STROJEXPORT*



11/030

11/030
Mobile Petrol-Electric Generating Set ZB 5 ZG 51

The set is provided with a two-stroke, air-cooled, single-cylinder ZB 5 engine of 3 H. P. output at 3000 r. p. m. The ZG 51 generator serves for charging batteries. *STROJEXPORT*

11/031
BD 15 50 A Engine

A water-cooled two-stroke, single-cylinder engine of 1.6 H. P. at 3000 r. p. m., suitable for driving small agricultural and building machines. *STROJEXPORT*

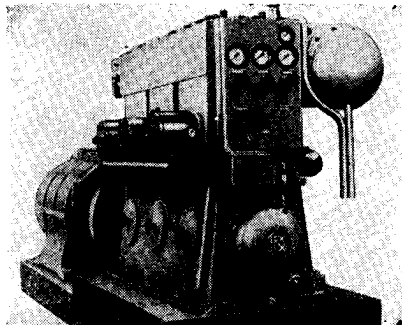
11/032
ČKD Hydraulic Transmission, Type H 350 L

designed for locomotives which are used for shunting service in foundries, steel-works and for railway-track re-

pairs. The transmission consists of two hydraulic circuits. Speed: 1400 r. p. m. Weight: 1740 kg. *STROJEXPORT*

11/033
Vertical Single-Stage Two-Stroke Double-Cylinder Air-Compressor 2 SK 200 B

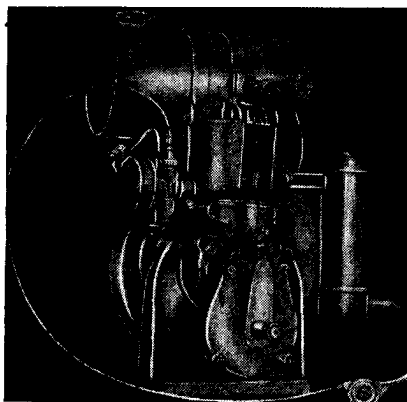
designed especially for use in the food and chemical industries where perfect clean air is required without the slightest trace of oil. Diameter of cylinders 200 mm. Input at 4 atm. 42 H. P. Input at 6 atm. 44 H. P. Speed 590 r. p. m. *STROJEXPORT*



11/034

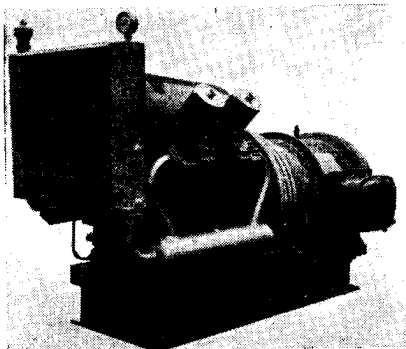
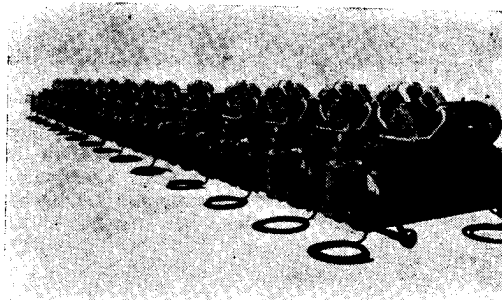
11/034
ČKD Vertical Two-Stage Single-Stroke Three-Cylinder Air Compressor 3 DSK 350-1

for use in mines, steel-works, foundries, chemical works, etc. Diameter of cylinders 350/280 mm. Speed 600 r. p. m. Sucked volume 1600 cu. metres per hour. Working pressure 8 atm. Weight 3000 kg. *STROJEXPORT*



11/037
Automatic Mobile Compressor
Station ATMOS V2S-1000

for spraying with paints and varnishes and for various pneumatic appliances. Delivered volume of air 56 cu. metres per hour. Working pressure 6 atm. Weight 405 kg. STROJEXPORT



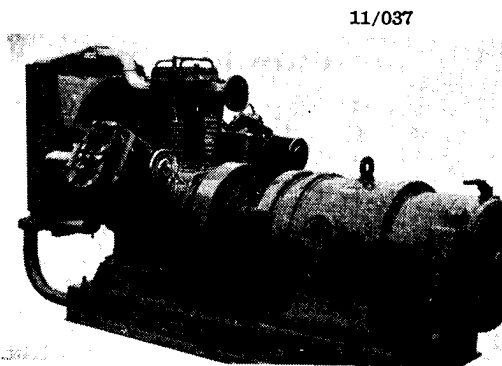
11/038

11/038
High-Pressure Stationary
Compressor ATMOS V4-C-1600

Forced feed circulation lubrication, efficient cooling. The automatic pressure reducing valve reduces the pressure in pipes and coolers to atmospheric pressure so that a lower starting current of the electric motor is obtained when short-circuiting. Delivered volume of air 85 cu. metres per hour. Working pressure 30 atm. Weight 720 kg. STROJEXPORT

11/039
Air-Cooled Rotary Compressor
ATMOS R 200

used as a compressor or air pump if inversely connected to the piping. Suitable for pumping air or chemically clean vapours, for use with refuse removal trucks. Delivered volume of air 220 cu. metres per hour. Working pressure 2.5 atm. Speed 1440 r. p. m. Weight 143 kg. STROJEXPORT



11/037

11/040

11/040
Stationary Air-Compressor
ATMOS WS 3.2 - EKO

used in plants where a large quantity of compressed air is required and with pneumatic tools - in quarries, mines, etc. Since cooling water is not required the danger of overheating or freezing at a normal ambient temperature is eliminated. Circulation pressure lubrication. Delivered volume of air 330 cu. metres per hour. Working pressure 7 atm. Electric motor 42 kW. Weight 1400 kg. STROJEXPORT

11/041
Air-Cooled Rotary Compressor
ATMOS VR-200

substitutes piston compressors of the same output and pressure. Delivered volume of air 200 cu. metres per hour. Working pressure 7 atm. Electric motor 35 kW. Weight 500 kg. STROJEXPORT

11/042
Stationary Air-Compressor ATMOS
WS 6.2 - EKO

used in industrial undertakings where a large quantity of compressed air is required as well as with pneumatic tools in quarries, mines, etc. Delivered volume of air 660 cu.metres per hour. Working pressure 7 atm. Electric motor 75 kW. Weight 1950 kg.

STROJEXPORT

11/043
Mobile Compressor DK 320

A double-stage mobile compressor with a 65 H. P. air-cooled Tatra T 108 engine. End pressure: 7 atm. Output: 5.4 cu.metres per min. Weight of the set: 2400 kg.

STROJEXPORT

11/044
Mobile Compressor ATMOS EK 5

A double-stage compressor of 7 atm. end pressure and 10.2 cu.metre output per min., with electric motor. Weight of the set: 3400 kg.

STROJEXPORT

11/045
Mobile Compressor ATMOS DK 4R

used for the production of compressed air for driving pneumatic riveting machines, hammers, drills and roadmaking machines on building sites, roads, railway tracks, in mines and stone pits. The compressor is arranged as a trailer, and is provided with air brakes and a hand brake. Delivered amount of air: 350 cu.metres per hour. Working pressure: 7 atm. Weight: 3600 kg. Maximum speed (trailed): 60 km. per hour.

STROJEXPORT

11/046
Mobile Compressor ATMOS,
Type DK 600

A double-stage mobile compressor with a 90 H. P. air-cooled Tatra T 111 engine. End pressure: 7 atm. Output: 9.2 cu.metres per min.

STROJEXPORT

11/047
Trailer Compressor ATMOS,
Type K1Z

A single-stage trailer compressor with a three-cylinder, air-cooled engine. Speed: 1200 r. p. m. End pressure: 6 atm. Output: 1.5 cu.metre per min. The compressor drive is effected from the tractor by means of a gearbox.

STROJEXPORT

11/048
Cross-Section through Compressor

The compressor is an air-cooled two-stage ATMOS K2 compressor. Delivered amount of air: 3.5 cu.metres per min. Working pressure: 7 atm.

STROJEXPORT

11/049
Automatic Mobile Compressor
Station ATMOS P1 - S

designed for spray-painting, etc. Delivered volume of air 5.5 cu.metres per hour. Working pressure 6 atm. Weight 125 kg.

STROJEXPORT

11/050
Stationary Air-Compressor
ATMOS PV2 - EKO

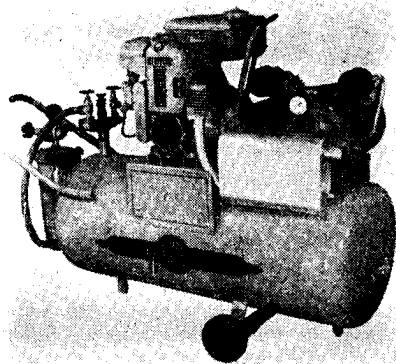
for inflating tyres and various pneumatic appliances. Easy operation. All moving parts are automatically lubricated. The compressor operates for eight hours without interruption. Delivered volume of air 11 cu.metres per hour. Working pressure: 6 atm. Electric motor 1.1 kW. Weight 85 kg.

STROJEXPORT

11/051
Mobile Compressor Station
ATMOS PV2-RZB 2

for inflating tyres, spraying with paints and varnish and for various pneumatic appliances. Two-stroke single-piston vertical air-cooled petrol engine with speed reduction device. The compressed air is supplied from the air chamber or the reducing valve. Delivered volume of air 11 cu.metres per hour. Working pressure 6 atm. Output 3 H. P. Weight 205 kg.

STROJEXPORT



11/051

11/053
Mobile Petrol-Electric Power Plant,
Type T 603 B - ZG 62, Output
15 kVA, and Type T 603 C - ZG 61,
Output 30 kVA

The two power plants are driven by a Tatra 603 petrol engine.

STROJEXPORT

11/054
Supercharging Blower PDH 16 N

low-pressure, water-cooled type for supercharging oil engines, driven by an exhaust gas turbine. Suitable for 225 to 350 H. P. engines. *STROJEXPORT*

11/055
Supercharging Blower PDH 25 S

low-pressure, water-cooled type for supercharging oil engines, driven by an exhaust gas turbine. Suitable for 350 to 600 H. P. engines with supercharging. *STROJEXPORT*

11/056
Supercharging Blower PDH 35 N

medium-pressure, water-cooled type for supercharging oil engines, driven by an exhaust gas turbine. Suitable for engines of 600 to 900 H. P. output with supercharging. *STROJEXPORT*

11/057
Supercharging Blower PDH 16 S

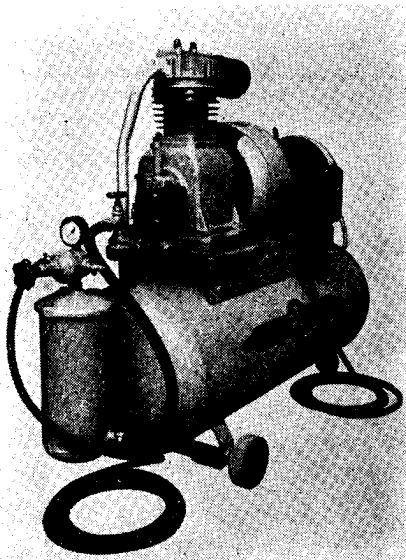
medium-pressure, water-cooled type for supercharging oil engines, driven by an exhaust gas turbine. It is designed for use with 250 to 400 H. P. engines with supercharging. *STROJEXPORT*

11/058
Low-Pressure Supercharging
Blower RN 10

water-cooled, for supercharging oil engines, driven by an exhaust gas radial flow turbine. By means of low-pressure supercharging the continuous engine output is increased by 50 p. c. and the engine thermal efficiency is improved by 6 to 8 p. c. Designed for use with 150 to 180 H. P. engines (supercharged). *STROJEXPORT*

11/052
Automatic Mobile Compressor
Station ATMOS K1S-1000

used for spraying paints and varnishes, inflating tyres as well as for various pneumatic appliances. Economic operation. Minimum of maintenance is required. Delivered volume of air 28 cu.metres per hour. Working pressure 6 atm. Weight 245 kg. *STROJEXPORT*



11/052

12 DEVELOPMENT EXHIBITS OF RESEARCH INSTITUTES

12/001

Ultrasonic Impulse Equipment

for ascertaining internal cracks and flaws of large forgings.

12/002

Gammagraphy used for the production of fittings and for checking welds

The cracks and flaws, detected by gamma-rays, are recorded on a film (gammagram).

12/003

Contactless measuring of sheet thickness by means of radio active isotopes

based on the absorption of β rays of radio active isotopes in the measured materials. A 2 p. c. change in the sheet thickness already results in a legible indicator deviation. A full deviation of the indicator is obtained when the sheet thickness changes by 20 p. c. from its nominal value.

12/004

Recording equipment for automatic ultrasonic testing of bearing pans

Incorrect joints of the bearing pan lining are ascertained by means of the traversing method; the bearing pan is immersed in water.

12/005

Case Hardening in Gas Atmospheres

The exhibit shows a model of a hardening plant where this modern and economical technological process has been adopted, as compared with an old hardening plant.

12/006

Nitriding Cutting and Pressing Tools

By saturating with nitrogen a thin layer of the surface of hardened tools

made of high-speed and ledeburite steels, a very hard, wear resisting layer is obtained.

12/007

Surface Flame Hardening

enables large parts to be hardened which are difficult to harden otherwise.

12/008

Optical and Magnetic Dilatometers

The optical dilatometer with mechanical enlargement of the measured deformation is suitable for static tensile tests of cylindrical and flat bars. Measured length: 100 mm. Measuring range (4 ranges): 0 to 250 microns.

Electromagnetic Recording Dilatometer

for static tensile tests. Range: 500 microns. Measured length: 100 mm.

12/009

Heat and Corrosion Resistant Materials

The new heat resisting pyroferal alloy on aluminium base (30 p. c. of Al) is suitable for casting, and frequently replaces expensive and rare heat resisting materials on Cr and Cr-Ni base.

12/010

Quality and Service Life of High-Pressure Fittings

The reliability of high-pressure fittings in operation is ensured by suitable and hard surface welded seats, wedges or cones and by selenium plating. In this manner, spindles, nuts and connecting bolts are prevented from seizing.

12/011
Vibratory Equipment for Fatigue Tests of Turbine Blades

Alternate stresses are produced on the blade by vibration. The blade is seismically brought into resonance (by vibrating the base in which it is clamped). Weight: 400 kg. Output of amplifier: 1 kW.

12/012
Vibratory Equipment for Measuring the Resonant Frequency of Turbine Blades

The vibrations of the blade are produced by an electromagnet without pre-magnetization. Weight: 70 kg. Accuracy: 2nd/₁₀₀. Output: 100 kW.

12/013
PEVA 4 Balancing Machine

The machine serves for electrical balancing of rotors without limiting their weight. Vibration range: 1 to 500 μ . Sensitivity of recorders: 50 mVs mm. Input: 100 VA. Weight incl. cables: 25 kg.

12/014
Turbine Test Wheels

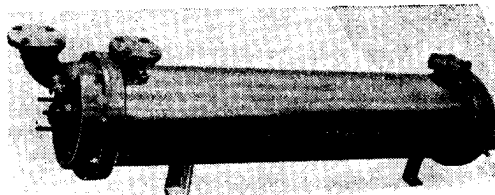
By means of these wheels the influence of the individual construction parameters on the efficiency of steam and gas turbine blades is systematically investigated.

12/015
Axial Test Compressor, 14 to 22,000 r. p. m.

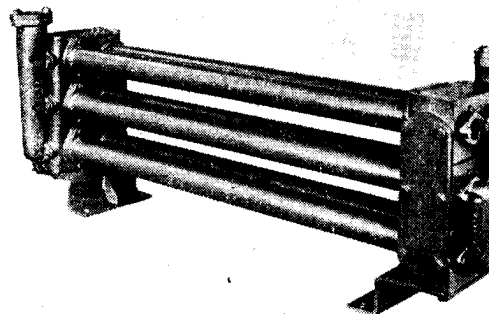
Axial, four-stage type for the research of various types of blades. It is suitable for a speed of 14,000 to 22,000 r. p. m. The runner and guide blades are provided with cylindrical pins so that their angle of adjustment can be varied. Efficiency: 88 to 90 p. c.

12/016
Blade Measuring Diffusor with Semi-Automatic Counter

The apparatus is intended for investigating the aerodynamic properties of blades of steam and gas turbines and axial compressors. Maximum speed of stream of air: 60 metres per sec.



12/017



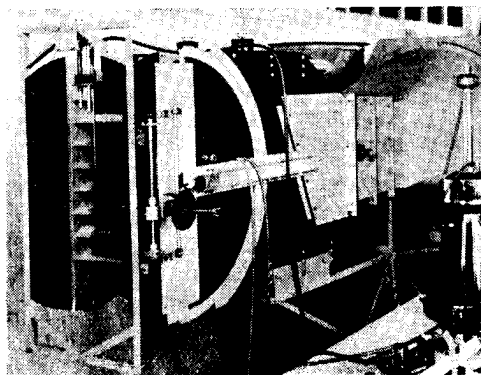
12/017

12/017
Oil-Water Cooler

A cooler for oil or other viscous liquids. The thermal load of the working tube is about 2.5 up to 3-times higher than the load of the customary types of tubular coolers.

Three-Medium Water-Oil-Water Exchanger

suitable for cooling oil and primary water of oil engines with secondary water circulation. It replaces two independent water and oil radiators of oil engines.



12/018
Precision Transducers for High and Higher Temperatures

Resistor transducer for gases from 100 °C below zero to 150 °C above zero with a short time-constant. Resistor transducer for gases from 0 to 850 °C with a short time-constant. Thermocouple transducer for temperatures from 0 to 1400 °C. Thermocouple transducer with a system of steel screening shells.

12/019
Samples of heat changing surfaces, pictures and diagrams of new types of heat exchangers

for intermediate air coolers of piston compressors, heaters and air-water coolers, air and water coolers of viscous liquids (oils) and new asbestos-cement cooling towers.

12/020
A model combustion chamber for the second stage of blast-furnace gas combustion

for research purposes. It stands a maximum tested load of 1800,000 kcal. per hour.

12/021
Ultrasonic Thickness Gauge

for measuring parts or their wall-thickness by means of ultrasonic waves. It is especially suitable for parts with one accessible wall only.

12/022
Micro-Polarograph M 103

used for the qualitative or quantitative analysis of materials contained in the solution of the mercury drip electrode according to the method of Profesor Heyrovský.

12/023
INTERFLEX Galvanometer N4b

suitable for measuring small currents and voltages. It is provided with an in-built shunt for sensitivity variation when currents are measured. Sensitivity regulation range: 1/1 to 1/10, 1/100, 1/1000.

12/024
Two-Circuit Mirror Galvanometer with Suspended Coil, Type Z

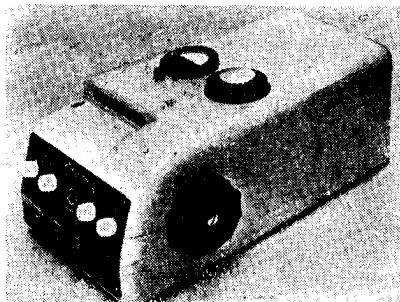
for power, ballistic, compensation and other measurements.

12/025
Galvanometer Zs

The galvanometer serves as a zero indicator for accurate measurements on bridges and other structures by means of direct current. It is used for making photographic records of electrochemical processes (polarography).

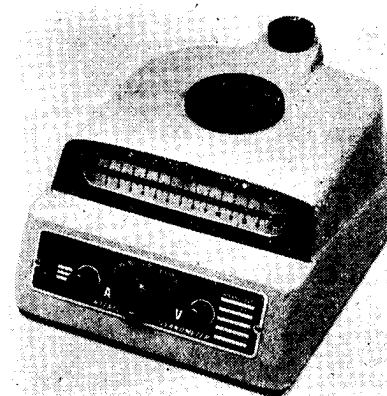
12/026
Universal Shunt R 4

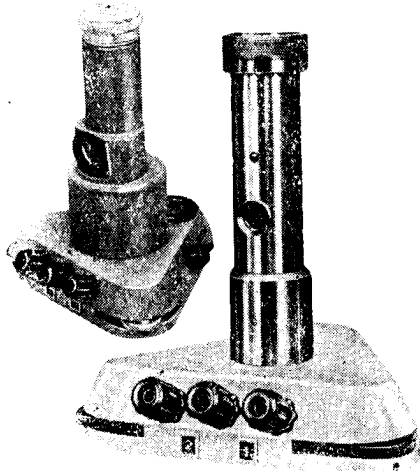
The shunt regulates the sensitivity of the galvanometer.



12/022

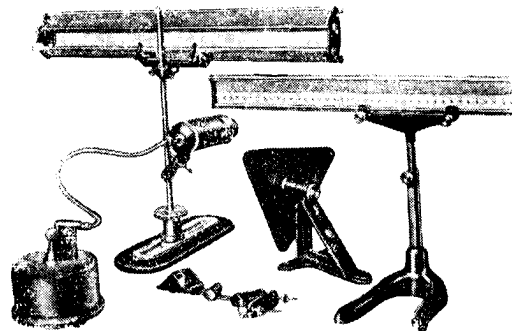
12/023





12/027
Horizontal Reading Device

for objective reading of galvanometer deflections.



12/027—028

12/028
Vertical Reading Device

for objective reading of mirror galvanometer deflections.

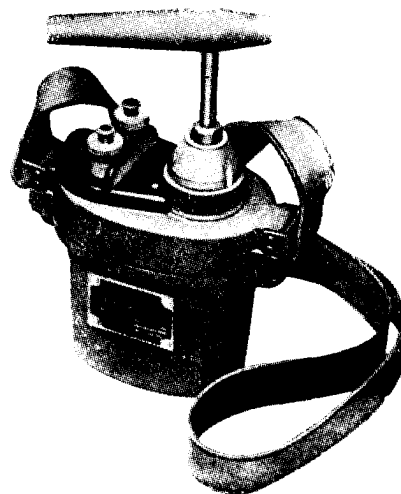
13 MINES AND STEEL-WORKS

13/001
Shortened Car Circulation

intended for unloading mine cars and returning them for further use in mines. Considerably shortened railyard length, lower gradient and faster discharging cycle. Dimensions: 9 metre width, 41 metre length. Weight including 10 mine cars: 42,000 kg. STROJEXPORT

13/002
Dynamoelectric Firing Machine
DEOS 25

with direct, hand-operated (rotatory) priming arrangement of electric glow (bridge) detonators for blasting operations in mines with fire hazard. Maximum number of detonators linked in tandem: 25. Resistance of priming circuit including supply cables must not exceed 110 ohms. STROJEXPORT

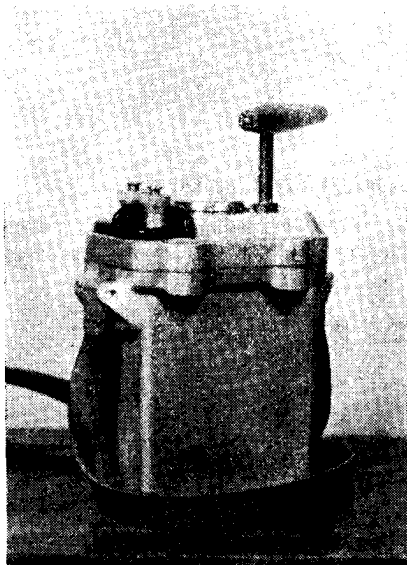


13/002

13/003
Dynamolectric Firing Machine
DEOS 25/I

with direct, hand-operated (rotatory) priming arrangement of electric glow (bridge) detonators for blasting operations in mines; suitable for normal, dusty and humid conditions. Maximum number of detonators linked in tandem: 25. Resistance of priming circuit including supply cables must not exceed 110 ohms. Weight: 2.2 kg.

STROJEXPORT



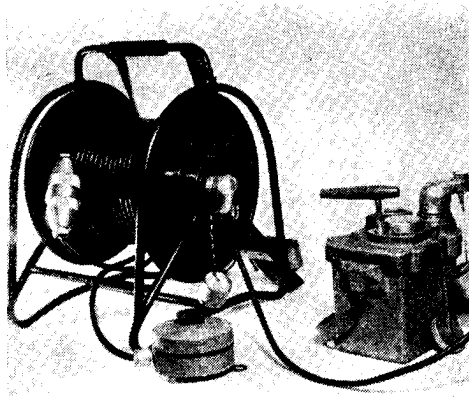
13/004

13/004
Dynamolectric Firing Machine
DEOS 50

spring mounted, used for priming electric glow (bridge) detonators for blasting operations in mines with fire hazard. Maximum number of detonators linked in tandem: 50. Resistance of priming circuit including supply cables must not exceed 300 ohms. Weight: 5.20 kg. *STROJEXPORT*

13/005
Dynamolectric Firing Machine
DEOS 100

spring mounted, used for priming electric glow (bridge) detonators for blasting operations in mines with fire hazard. Maximum number of detonators linked in tandem: 100. Resistance of priming circuit including supply cables must not exceed: 500 ohms. Weight: 5.6 kg. *STROJEXPORT*



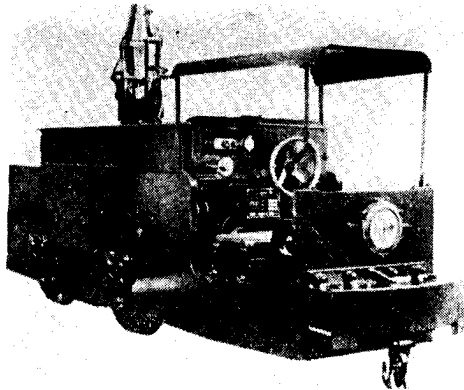
13/006

13/006
Dynamolectric Milli-Second
Firing Machine DMDERS/54

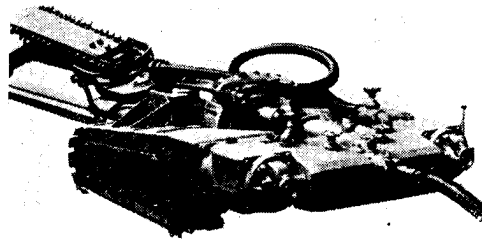
spring mounted, used for electric priming of a set of glow (bridge) detonators at regular short intervals (e. g. 20 ms.) in mines with fire hazard and under normal conditions. Weight: 6.8 kg. *STROJEXPORT*

13/007
Overhead Wire Mine Locomotive
Tld 6.5 II

used for haulage on 520 to 700 mm. narrow gauge tracks in mines without fire hazard. Speed up to about 20 km/hr. Tractive force in starting: 1300 kg. Weight: 6500 kg. *STROJEXPORT*



13/007



13/009
Shearing Coal Cutting Machine
F20 HONM

13/009

mounted on a caterpillar chassis, and used in collieries for drivages of coal seams at least 700 mm. thick and inclines up to 28°. Output of the main motor used for the air-pressure drive of the cutting chain: 18 to 20 H. P. Air-pressure: 4.5 atm. Width of furrow: 90 to 100 mm. Height: 700 mm. Width: 1200 mm. Length: 4500 mm. Weight: 2634 kg. STROJEXPORT

13/010
Shovel Loader NL-12-V

This shovel loader meets the requirement of the confined space encountered in mines. It is used for preparatory work in mines, tunnels, etc. up to a gradient of 8° and a distance of 2.2 metres from the rail head to the floor. Maximum length: 1855 mm. Minimum length: 1150 mm. Minimum width without controls: 800 mm. Minimum height:

1240 mm. Maximum height: 2010 mm. Gauge: 450 mm. Shovel capacity: 0.12 cu. metre. Weight: 2200 kg.

STROJEXPORT

13/011
Boring Set B 120 M-2

for boring wells in soft or medium hard rock, for building, geology and other purposes. It is equipped with tools and accessories for mechanized rotary and drop drilling by free fall into a maximum depth of 120 metres (400 ft.) at a final diameter of the uncased borehole of 210 mm (8 1/4"). The boring set consists of a derrick with a crown, and under-carriage, derrick lifting mechanism, block, rotary table, winch, driving set, drilling tools and accessories. Maximum depth of bore: 120 metres (400 ft.). Maximum depth of uncased borehole: 100 metres (300 ft.). Rotary table - free passage: 450 mm. (17 1/2"). Weight of boring set: 7140 kg. (7 tons). Weight of tools and accessories: 28,380 kg (28 tons).

STROJEXPORT

13/012
Rotary Drilling Bits

for use, especially, in hard and very hard rocks.

- Roller drilling bits with outer attaching thread;
- Drilling bits with inner attaching thread;
- Four-roller drilling bits for core drilling (with inner attaching thread only);
- Six-roller drilling bits.

STROJEXPORT

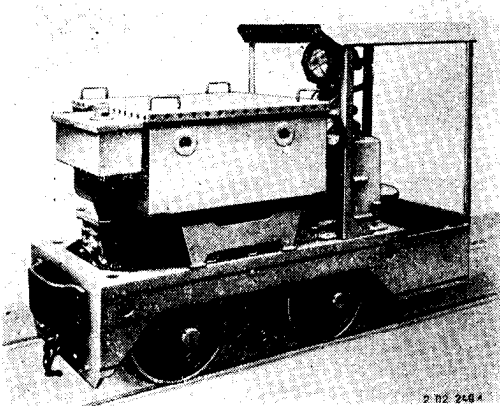
13/013
Skoda Rolling Mill - Baby Model

for smaller plants. Suitable for rolling various sections as well as flat steel; after a change of rollers even small sections of various shapes can be handled. For use with both blanks and scrap iron (for instance, split parts of rails). Rated output of train for steel, 1/2" in dia.: 5.4 tons per hour. For steel, 2,5" x 80" in □. TECHNOEXPORT

13/014
Three Product Coal Separator with Heavy Medium Closed Circuit

for the separation of black or brown coal according to its specific weight. Low electric power consumption. It

consists of the tank itself, channel, washed coal conveyor belt and waste and by-product conveyor belt. Working width of machine: 800 to 2400 mm according to the required output. Width of waste and by-product conveyor belt: 2200 mm. *STROJEXPORT*



13/015

13/015
Explosion-Proof Accumulator Mine Locomotive Ald 2

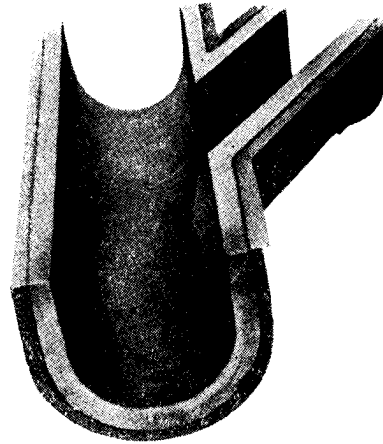
intended for haulage in mines with fire hazard. Adjustable wheel gauge: 450 to 600 mm. The two driving axles are coupled and operated by one traction motor. Output of traction motor per hour: 3 kW. Permissible tractive force: 130 kg. Starting tractive force: 300 kg. Dimensions: Width (roof of cabin excluded): 800 mm. With roof: 1140 mm. Length: 2155 mm. Height: 1500 mm. Weight: 2200 kg. *STROJEXPORT*

13/016
Open Cast Mine Locomotive BND 30

Wheel gauge: 450 to 600 mm. Output: 30 H. P. Weight: 6300 kg. *STROJEXPORT*

13/017
Open Cast Mine Locomotive BND 15

Wheel gauge: 450 to 600 mm. Output: 15 to 20 H. P. Weight: 3800 kg. *STROJEXPORT*



13/018

13/018
Parts of Stowing Pipes including fittings for pneumatic or hydraulic underground conveyance

KERAMIKA - STROJEXPORT

13/019
Model of Steep Angle Conveying Equipment

Discharging device of the Steep Angle Conveying Equipment, underneath the brake box
Part of a system of pipes, 300 mm. in dia. of a high-speed steep angle conveying equipment, basalt, fittings, tiles

KERAMIKA - STROJEXPORT

13/020
Pneumatically Controlled Plate Friction Clutch for Mine Hoists

for engaging or disengaging the loose and fixed drum of the mine hoist when passing from one horizon to another. Weight: 7000 kg. *STROJEXPORT*

13/021
Steel Casting Ladle of 200 ton capacity

The ladle is lined with refractory bricks and the bottom is provided with a discharge hole controlled by discharge mechanism. *TECHNOEXPORT*

13/022

Model of a Blooming Mill Ø 1120

for rolling of blooms and slab blooms of slightly alloyed steels, particularly of chrome-nickel steels of a tensile strength up to 80 kg/sq. mm. Output 255—470 t/h. Rolling cycle 70—115 sec.
TECHNOEXPORT

13/023

Model of SM 400 t Tilting Furnace

for production of commercial quality steel; Talbot process is used. Output 29 t/h.
TECHNOEXPORT

13/024

Mining Steel Equipment

Reinforcing flexible arches for propping up of galleries, headings, etc.
TECHNOEXPORT

13/025

Drilling Pipes, Casings

pipes for pumps, oil pipelines, rib, flange, smooth, precise seamless and precise welded pipes; elbows, studded and shaped pipes and flanges.
STROJEXPORT

13/026

Transport Chutes

for handling of coal, limestone, slag, gravel, stones and other loose materials. The transport chutes can handle up to 160 tons of material per hour.
STROJEXPORT

13/027

Battery of thickening Cyclons

in heavy fluid washing plants for partial dilution of the washing fluid and slimes. Output of a battery of 6 cyclones approx. 400—450 cu. m/h.
STROJEXPORT

13/028

Washing Tank

for heavy fluid washing plant for processing of coal. Width of the tank 1000 mm. Length of the tank 7.826. Output of the tank 80 t/h.
STROJEXPORT

13/029

Draining Screen

used in heavy liquid washing plants for draining of washed products. R. p. m. 540
STROJEXPORT

13/030

Tool Joint

Whole and in cross section.
FERROMET

13/031

Double Slip Point type T

is used in larger railway stations for its building length which makes easy the traversing in four and crossing in two directions. Its great advantage is in delaying the contact from the point of crossing and thus achieving a smoother riding of the vehicles over the frogs. The gauge is 1435 mm and the weight 25,830 kg.
STROJEXPORT

13/032

Crushers and Separators

Jaw and laboratory crushers, grinders, hammer crushers, mobile crushing sets, vibrating separators, manganese winch.
STROJEXPORT

13/033

Products of malleable castings

STROJEXPORT

13/034

Central Heating Boilers and Radiators

Pluto 2 boiler for burning coke of 40 × 60 grain, anthracite, coke breeze, black non bituminous coal or wood. Boiler type E 1 for burning oil. Boiler E IV-7 type for burning brown coal briquettes, brown coal in pieces or black non bituminous coal, coke, wood or peat. Ligno-II-D for burning fuel of inferior quality. Single or double column radiators of various types.
STROJEXPORT

14 THERMAL MEASURING AND CONTROL INSTRUMENTS

14/001

Profile Type Pressure Gauge

for indicating pressures, draughts or differential pressures in technical processes. Drum-type pressure gauges for pressures up to 4000 mm. of w. col., incorporating Bourdon tube operated pressure gauges for pressures of 1 to 100 kg./sq. cm. hydraulic pressure gauges for pressures above 100 kg./sq. cm. and differential pressure gauges for pressures up to 4000 mm. of. w. col. *KOVO*

14/002

Pressure Gauges with Transmitter

(single or double) for electric remote transmission to electric indicators, line recorders or recorders with dotted record. *KOVO*

14/003

Piston-Operated Pressure Gauge

for accurate measurement of pressures, remote transmission of the measured values as well as for signalling purposes within a range of 5 to 160 kg./sq. cm. *KOVO*

14/004

Low Pressure Recording Ring Balance

for pressure, vacuum or differential pressure measurements and recording. *KOVO*

14/005

Draft Change-Over Switch

enables successive changing over of the draft gauge to different measuring points. *KOVO*

14/006

Orifice Plates

intended for flow measurement of neutral liquids, gases and steam. Chamber type orifice plates with interchangeable measuring discs are used to a maximum pressure of 64 kg./sq. cm. Flat orifice plates are suitable for higher pressures or larger internal diameters of the pipe line. *KOVO*

14/007

Indicating Float-Type Pressure Gauge

for measuring the flow of steam, water, air or gases up to a static pressure of 100 kg./sq. cm. *KOVO*

14/008

Recording Float-Type Pressure Gauge

intended for the flow measurement of steam, water, air or gases up to a static pressure of 100 kg./sq. cm. *KOVO*

14/009

Indicating Ring Balance

intended for the flow measurement of air or gases up to a static pressure of 1 kg./sq. cm.

Low Pressure Recording Ring Balance

intended for the flow measurement and recording of air or gas up to a static pressure of 1 kg./sq. cm.

High Pressure Recording Ring Balance

intended for the flow measurement and recording of steam, water, air or gases up to a static pressure of 40 kg./sq. cm. *KOVO*

14/010

Float Liquid Level Gauge

for liquid level measurement in closed tanks under pressure. Suitable for working pressures up to 100 kg./sq. cm. *KOVO*

14/011-013

Resistance Thermometers and Pyrometers

for remote electric telemetering of temperatures of steam, gases and liquid in pipe lines, boilers, combustion chambers, flue gas ducts, kilns, etc. Resistance thermometers are designed for temperatures up to 550 °C. Pyrometers are suitable for temperatures up to 1600 °C. *KOVO*

14/014
Electric Flue Gas Analyser

for measurement of CO₂ and CO + H₂ content in combustion products. KOVO

14/015
Salinometer

for conductivity measurement of steam condensate. Measuring range: 0 to 25 μ S. KOVO

14/016
Salinometer

for conductivity measurement of steam condensate.

Measuring ranges: 0- 15 μ S, 0- 10 μ S,
0- 250 μ S, 0-100 μ S,
0-1000 μ S, 0-500 μ S.

KOVO

14/018
Oxygen Meter

intended for measuring the volume of oxygen in gases. KOVO

14/019
Electric Temperature Indicators

designed to indicate the temperatures measured by pyrometers. They are also used in conjunction with d. c. outlet transmitters for indicating other values of electrically measured variables.

Electric Indicators

with bridge cross-coil measuring system. They are designed to indicate the temperature measured by electric resistance thermometers. KOVO

14/020
Numo Indicators

with null motor measuring system, designed for remote recording of measured values. KOVO

14/021
Point Recorders

Single-, two-, three- and six-point recorders with dotted record of 1 to 6 values. KOVO

14/022
Line Recorders

with null motor measuring system, designed for remote transmission of values measured by pressure gauges, flow meters, etc. KOVO

14/023
Potentiometer Recorders

with compensating measuring system for temperature and other measurements. KOVO

14/024
Capillary Tube Thermostat

intended for two-position temperature control or signalling in pipe lines, ducts and tanks. KOVO

14/025
Room Thermostat

intended for two-position temperature control or signalling in refrigerating plants. KOVO

14/026
Chopper-Bar Controller

for two-step control (on - off) or for temperature signalling. KOVO

14/027
Magnetic Controller

for two-position temperature control, for use with resistance thermometers. KOVO

14/028
Self-Operated Temperature Controller

for the control of the heating liquid flow. KOVO

14/029
Manostat

for pressure control or signalling the pressure of air, gases, steam or liquids. KOVO

14/030
Float-Type Controller

for the control and signalling of the liquid level in closed tanks. KOVO

14/031

Electromagnetic Valves

for the remote control of air, gas and oil flow. Also suitable for various liquids. KOVO

14/032

Resistance Transmitters

for electric remote transmission of values measured by various instruments. KOVO

14/033

Change-Over Switches

for switching on and over various a. c. appliances in limit positions. KOVO

14/034

Jet Pipe Oil-Operated Controllers

of pressure, underpressure, differential pressure, ratio of pressures, underpressures and differential pressure temperatures with diaphragm operated, bellows operated and Bourdon tube operated transforming mechanism. KOVO

14/035

Hydraulic Power Unit

lever type, straight lined. KOVO

14/036

Air-Operated Control Instruments

Control pressure range: 0.7 to 3.5 kg./sq. cm. These instruments are designed for remote manual operation and automatic control of heavy industrial processes, especially of steam boilers. Pressure controllers, differential pressure and temperature controllers, piston power cylinders and accessories. KOVO

14/037

Pneumatic Pressure Controller

measures the pressure deviations from the set point and converts them into control signals of the control air pressure. KOVO

14/038

Pneumatic Controller for Great Differential Pressures

measures the differential pressure in the order of kg./sq. cm. and converts it into control signals of the control air pressure. KOVO

14/039

Pneumatic Controller for Pressure, Vacuum and Small Differential Pressures

for pressure, vacuum or differential pressure control in combustion chambers, air-ducts, coal pulverizing mills, etc. KOVO

14/040

Pneumatic Temperature Controller

for air temperature control especially in the mill systems of steam boilers. KOVO

14/041

Piston-Operated Power Cylinder

for remote manual operation and automatic control. KOVO

14/042

Integrating Relay

It emits a signal corresponding to the total or difference of several incoming signals. KOVO

14/043

Ratio Relay

design to automatically maintain the set ratio of two pressures. KOVO

Air-Operated Control Instruments

with control air pressure gauge of 0.2 to 1.1 kg./sq. cm. A unit head line of instruments for remote measuring, recording, manual remote control and automatic control: Air-operated transmitters, remote indicating, recording and control instruments, diaphragm operated valves, piston operated power cylinders and supplementary instruments. KOVO



THE ROUTE
of the Magic Carpet

The quickest to INDIA
The quickest to SYDNEY
The quickest to LONDON

by Superconstellations

AIR-INDIA
International

PRAHA, Národní třída 43



ABRASIVES

Grinding wheels
Emery paper and cloth

REFRACTORY PRODUCTS

Fireclay
Silica
Magnesite bricks

CAST BASALT

CZECHOSLOVAK
Ceramics

Foreign Trade Corporation

PRAHA II, V JÁMĚ I — CZECHOSLOVAKIA

14/044

Air-Operated Pressure Transmitter

- a) Diaphragm-operated for pressure control and measurement up to 250 mm. of w. col.
- b) Bellows-operated for pressure control and measurement up to 2.5 kg./sq. cm.
- c) Bourdon tube-operated for pressure control and measurement up to 100 kg./sq. cm. KOVO

14/045

Air-Operated Temperature Transmitter

- a) in conjunction with a potentiometer recorder, air-operated controller and remote control panel, with various ranges from -100 to +200 C. Minimum range: 50 °C.
- b) Quick-acting temperature transmitter for temperature measuring and control, of various ranges from -100 to +200 °C. Minimum range: 50 °C. KOVO

14/046

Air-Operated Level Transmitter

for level measuring and control up to 200 mm. of w. col. KOVO

14/047

Air-Operated Flow Transmitter

for flow measurement and control, nominal pressure: 160 kg./sq. cm. Differential pressure: 0 to 50 kg./sq. cm. KOVO

14/048

Air-Operated pH Value Transmitter

for the pneumatic remote transmission of measured values. KOVO

14/049

Central Pneumatic Relay

Pressure range of the pneumatic control signal: 0.2 to 1.1 atm. KOVO

14/050

Hand Relay No. 07031

for pneumatic manual remote setting of the control body position. KOVO

14/051

Control Panel No. 07041

for switching on or off of the pneumatic control. KOVO

14/052

Booster Relay No. 07021

for amplifying the control impulses of the central pneumatic relay or pH transmitter. KOVO

14/053

Diaphragm-Operated Control Valves

for remote manual control or, in conjunction with low pressure air-operated controllers, for the automatic flow control of liquids and steam. They can be used with advantage especially in processes with a dangerous ambient.

Rated pressure 40, dia. 25
do. 40, do. 40
do. 40, do. 65
do. 16, do. 6

KOVO

14/054

Potentiometer Controller

for continuous control of temperature or other values, or successive temperature control by changing-over KOVO

14/055

Bridge Controller

for three-impulse feeding control. KOVO

14/056

Electric Power Unit P 2000 kg.

with control valve for remote control and automatic control of larger fittings. Stroke of spindle: 80 mm. Three-phase electric motor, 180 W, 380/220 V. KOVO

14/057

Electric Power Unit P 500 kg.

with shut-off valve for remote control and automatic control of small fittings. KOVO

14/058

Electric Power Cylinder P 2000 kg.

with shut-off valve for remote control and automatic control of larger fittings. KOVO

14/059-062
Electric Power Units with Rotating Output Shaft

for the control of shut-off or control fittings.

Type Mo 9 kgm. —
base or flange type for smaller gate valves or for the operation of by-pass valves.

Type Mo 20 kgm. —
for medium gate valves and for high-pressure valves with relieved packing, where rapid and light closing is required.

Type Mo 80 kgm. —
for remote operation of large fittings, especially gate valves.
KOVO

14/063-066
Lever-Type Electric Power Units

for remote control and automatic control of throttling valves, dampers, slides, fan vanes, for the drive of motor brushes, transformers, etc.

Type Mp 2 kgm. Mp 25 kgm.
Mp 6 kgm. Mp 100 kgm.
KOVO

14/067
Boiler Panel

for grate boilers with a capacity of 40 tons per hour, steam pressure of 40 atm., steam superheating of 425 °C.

KOVO

14/068
Lever-Type Electric Power Unit, 25 kgm.

KOVO

14/069
Electric Power Unit A 500

with feed valve. KOVO

14/070
Pneumatic Lever Power Cylinder

for the control of the speed of grate.
KOVO

14/071
Pneumatic Lever Power Cylinder

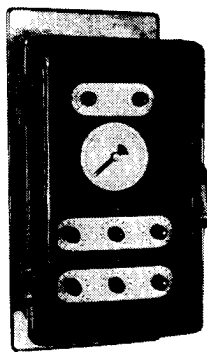
for the control of the fan control valve.
KOVO

14/072
Maxigraph Křižík M6S

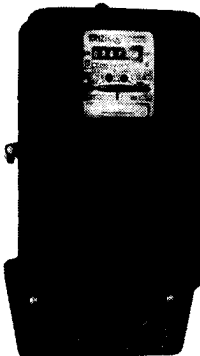
for marking on a paper chart the mean value of the measured load, such as electric power, within certain time periods, the so called integration periods. Voltage: 110 or 220 V. Input: 20 W. Weight incl. box: 28 kg. KOVO

14/073
Despatching Cabinet Křižík DS6

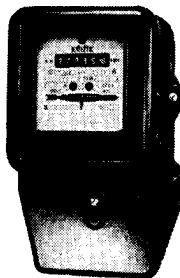
designed for automatic checking of the consumed energy according to the determined chart. If the signalling device is set in operation and the consumer sections can also be cut off. Voltage: 110 or 220 V. Input: 35 W. Weight: 12 kg. KOVO



14/073



14/074



14/075



14/077

14/074

Accurate Three-Phase Three-Wire System Watt-Hour Meter P3

designed for measuring energy in three-phase three-wire systems. Available for rated voltages of 100, 110, 220, 380 or 500 V. Rated current: 1 and 5 A. Frequency range: 50 to 60 c/s.

KOVO

14/075

Single-Phase Watt-Hour Meter EJ 8

for measuring energy in single-phase a. c. systems. Available for rated currents up to 40 A with 100 to 200 p. c. of overload. Rated frequency range: 40 to 60 c/s.

KOVO

14/076

Single-Phase Double Tariff Watt-Hour Meter EJ 8D

for measuring energy in single-phase a. c. systems by using two different tariffs. Available for rated currents of 5, 10, 20 and 30 A with 200 p. c. of overload, or for 5, 10, 20, 30 and 40 A with 100 p. c. overload. For rated voltages up to 400 volts. Rated frequency range: 40 to 60 c/s.

KOVO

14/077

Three-Phase Three-Wire System Watt-Hour Meter ET3

for measuring energy in three-phase three-wire systems at any required overload and phase shifting. Suitable for voltages up to 5×500 V. Currents: 5, 10, 20, 30, 50, 75 and 100 A. Frequency range: 50 to 60 c/s (for one frequency only).

KOVO

14/078

Three-Phase Four-Wire System Watt-Hour Meter ET4

for measuring energy in three-phase systems with neutral conductor at the required overload and phase shifting.

KOVO

14/079-080

Three-Phase Double-Tariff Watt-Hour Meters ET3-4D

for measuring energy in periods to which two different tariffs apply. Their design does not differ from that of ET3 or ET4 watt-hour meters. They are, however, provided with a double counter.

KOVO

14/081-082

Three-Phase Double-Tariff Watt-Hour Meters with Maximum Indicator ET3-4DM

In addition to the whole energy supplied, these watt-hour meters indicate the maximum average value of the load within a certain time period, the so-called intergration period. This period can be selected within a wide range.

KOVO

14/083

Signalling Wattmeter WSM

ensures the supply of energy up to a certain figure only. As soon as this supply is exceeded, it signals by means of the time lag relay.

KOVO

14/084

Time Lag Relay ZRWS

serves for direct switching on the signalling devices and automatic switching off the contactor.

KOVO

14/085-086

Switch-Over Clock H2-D-M

serves for changing over the tariffs and switching on the maximum indicator of the watt-hour meter.

KOVO

14/087

Time Switch H2VS

designed for automatic switching on or off public illumination, shop window illumination, neon advertisements, accumulating stoves, steamers, etc.

KOVO

14/088
Summation Clock SHS

The clock measures the number of hours during which an electrical appliance has been in operation, it indicates the extent to which it has been utilized, and ascertains the period of its operation when its service life has been guaranteed. *KOVO*

14/089
Automatic Parallelling Instrument RFS

The instrument immediately connects in parallel

- a) excited synchronous generators with one another and the consumer net,
 - b) long sections of the net even under unfavourable operating conditions.
- KOVO*

14/090
Comparative Voltage Equipment SE2

The comparative voltage equipment serves for automatic adjustment of the phased generator voltage to that of the net. It is available in a bakelite case, to be mounted on the panel. *KOVO*

14/091
Automatic Synchronizing Equipment STU

intended for automatic synchronizing the alternator speed with the frequency of the net before the alternator is connected. The instrument enables to set

the impulse period within a wide range and limits the impulse density. *KOVO*

14/093
Reactive Power Regulator WOR-8

for automatic regulation of reactive power by switching on or off the regulating stages of a condensor battery. *KOVO*

14/094
Auxiliary Case WOR-p

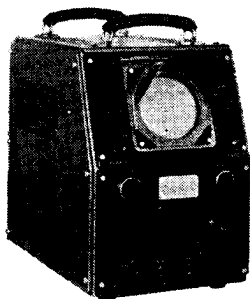
An auxiliary equipment designed to increase the number of regulating stages of the WOR-4 or WOR-8 regulators by further 4 stages. The case contains four auxiliary relays of RP 90 type with resistors. *KOVO*

14/095
Oscilloscope T 531

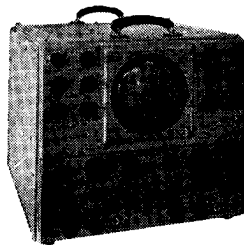
designed for the observation of voltage wave-forms of the lowest frequency (of d. c. voltages) up to 2 Mc/s. A wide frequency range of the amplifiers and time base make the oscilloscope suitable for various engineering, physical, chemical or biological research. *KOVO*

14/096
Measuring Oscilloscope T 565

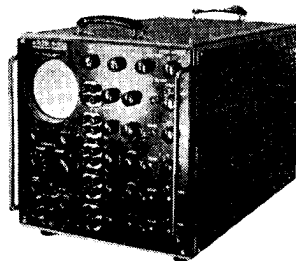
suitable for impulse measuring. This oscilloscope enables the observation of wave-forms and measurement of d. c. voltages of a frequency of 0 to 1 Mc/s. *KOVO*



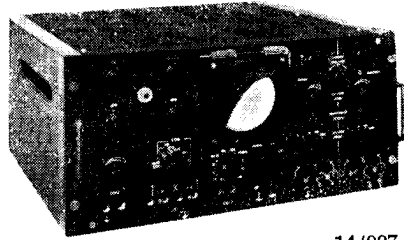
14/096



14/099



14/098



14/097

14/097
Double-Beam Oscilloscope D 536

A universal oscilloscope which serves for the observation of voltage wave-forms and phase of the lowest frequency up to 1 Mc/s. It is suitable for the observation of periodic and aperiodic currents of 10 mV to 500 V. KOVO

14/098
Five-Beam Oscilloscope K 552

This universal oscilloscope serves for the simultaneous observation of voltage wave-forms and phase of up to five voltages of the lowest frequency up to 1 Mc/s (of d. c. voltages). KOVO

14/099
Double-Beam Oscilloscope D 564

This universal oscilloscope is designed for independent double observation. It is suitable for the observation of periodic and aperiodic voltages of 10 mV to 500 V of the lowest frequency up to 1 Mc/s (even of a. c. voltages). KOVO

14/100
Ten-Beam Oscilloscope K 572

This oscilloscope serves for simultaneous ten-beam observation on one screen. It is used for measuring complex regulation systems of mechanical structures (by means of a tensometer). KOVO

14/101-104
Polaroscope P 576

The polaroscope finds use in qualitative or quantitative oscillographic polarography. The curves which are shown on the screen, correspond to the composition of the tested solution. By means of in-built calibrating instruments, both qualitative and quantitative analysis can be made. KOVO

14/102
Ferroscope F 563

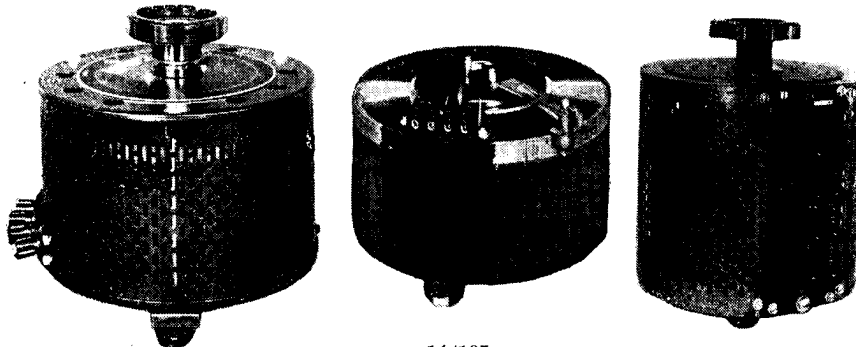
serves for checking magnetic materials, especially iron by means of the comparative method. KOVO

14/103
Preamplifier Z 562

This instrument is designed to increase the sensitiveness of standard type oscilloscopes with d. c. amplifiers. It amplifies voltages of 0 to 50 kc/s, and finds use in industries where oscilloscopes are used. KOVO

14/105
Regulating Auto-Transformer
RT 2.5 (RT/A 2.5)

for continuous manual regulation of a. c. voltages within a wide range.



14/105

**Regulating Auto-Transformer
RATIO, RAT3×10**

with an adjustable a. c. voltage source from 0 to 250 V at 10 A maximum demand. It is fed from 220 or 120 V single-phase mains. *KOVO*

**14/106-109
Alternate Voltage Electronic
Stabilizers ST250, ST500, ST1000,
ST2000, ST5000**

serve for stabilizing the net voltage fluctuation of -15 p. c. to +10 p. c. of the 220 V rated voltage, i. e. from 190 to 240 V. They compensate simultaneously for the losses arising at overloads so that the input voltages of appliances can be stabilized despite a highly fluctuating load and frequency of 45 to 65 c/s. *KOVO*

**14/110
Current Transformer IVN**

intended for measuring alternate currents from 5 to 30 A at a rated secondary current of 5 A (1 A exceptionally).

Current Transformer IVT

intended for measuring higher alternate currents from 100 to 600 A.

Current Transformer IVm

intended for measuring higher alternate currents from 50 to 300 A.

Current Transformer IVD

serves for measuring higher alternate currents of maximum rated values within a range of 50 to 800 A.

Current Transformer IVP

serves for measuring alternate currents of maximum rated values within a range of 1000 to 10,000 A. *KOVO*

**14/111
Quick-Acting Distance Protective
Relay for earthed nets of very
high voltages D 110**

Rated values 1 or 5 A, 100 V, 50 c/s. Auxiliary voltage 110 or 220 d. c. voltage. Weight 65 kg.

STROJEXPORT

**14/112
Universal Moving Coil System
Relay UCR**

The moving coil is in the field of a permanent magnet (Depréz d'Arsonval System). It serves as an indication relay for bridge connections (type 1) or a measuring relay of d. c. values or with a. c. rectifiers (type 2). *KOVO*
STROJEXPORT

**14/113
Relay Automatic for Three-pole
Repeat Switching OZ31**

The OZ31 automatic controls three-pole reswitching in the case of a breakdown in the net. It provides for definite switching off in case of a permanent breakdown or short-circuit. *STROJEXPORT*

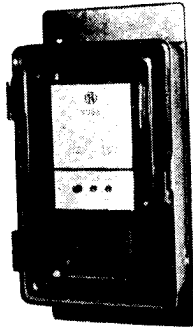
**14/114
Relay Automatic for Repeat
Switching for very high voltages
OZ101a**

The OZ101a automatic controls a single- or three-pole reswitching cycle with an adjustable currentless interval. Should a further breakdown occur during the reswitching cycle, the net is cut off definitely. *STROJEXPORT*

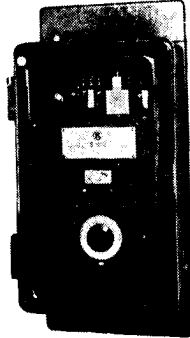
**14/115
Longitudinal Comparative
Protection Relay S30A**

The relay is designed to protect short sections of the supply line where a minimum cut out period is required during a breakdown. Voltage transformers or d.c. auxiliary sources are not required.

STROJEXPORT



14/115



14/116

14/116
Comparative Phase Protection
Relay S102

for outdoor lines or cables- in systems with insulated or earthed neutral. The relay operated in single-relay connection with transformer. *STROJEXPORT*

14/117
Time Relay TD1

High service-life. Designed for delaying the control impulses in installations where a high service-life and frequent switching is required (for instance in automatic machine tools). *STROJEXPORT*

14/118
Overcurrent Time Relay A3T

The relay delays the action of switches during short-circuits or over-

loads. It serves for the protection of earthed three-phase mains and installations.

14/119
Two-Phase Overcurrent Protection
Relay A2M1

for switching off with measuring transformer current. The relay delays the action of switches during short-circuits or overloads. It serves for the protection of three-phase non-earthed mains and installations. *STROJEXPORT*

14/120
Protection Relay for Asymmetrical
Overloads N10

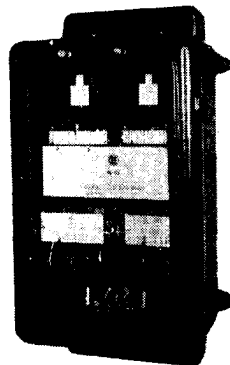
A double-stage protection for installations in three-phase systems, subjected to non-asymmetrical overloads. *STROJEXPORT*

14/121
Earth Fault Generator Rotor
Protection Relay GR 20

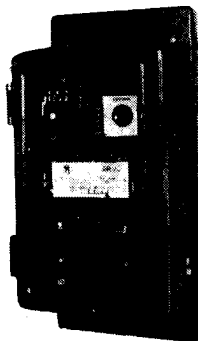
used for the protection of generators. *STROJEXPORT*

14/122
Voltage Relay F 1

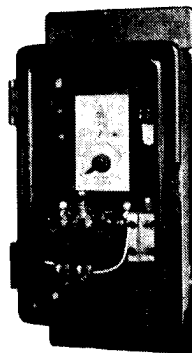
for winding protection or earth stator protection of generators operating in block with a transformer. The relay is provided with a time member and indicator and output relay with drop flag. *STROJEXPORT*



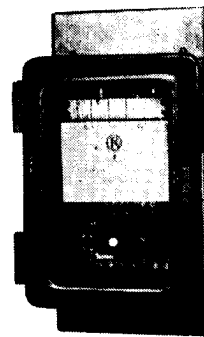
14/120



14/121



14/123



14/125

14/123

Frequency Protection Relay F 3

for switching off less important sections of the net at overloads resulting in the frequency drop. *STROJEXPORT*

14/124

Fault Phase Sequence Protection Relay VNI

for the protection of installations with three-phase drive at fault phase sequence (for instance, suitable for elevator motors). *STROJEXPORT*

14/125

Fine Time Relay T

for delayed impulse switching at given periods with a high accuracy.

Long Term Time Relay TM

for a delayed action of control impulses in automatic installations. The synchronous motor with transmission and electromagnetic clutch and the auxiliary relay are in-built to a common case. *STROJEXPORT*

14/126

Auxiliary Relay RP 40

for smaller outputs, suitable for d. c. installations.

Auxiliary Relay RP 90

A small auxiliary relay with a high switching frequency. The relay should be in-built to the control equipment or apparatus.

Auxiliary Relay RP 100

A small auxiliary relay with a high switching frequency. The relay should be in-built to the control equipment or apparatus.

Excitation Relay RPK

for remote control by current impulses or current interruption. *STROJEXPORT*

14/127

Remote Measurements

of electrical and non-electrical quantities in power installations, iron works and mines. Measurement of power supply and consumption. *KOVO*

14/128

Magnetic Amplifier

comprises no rotating components nor contacts, has a practically unlimited life, requires no maintenance, is shock-proof, instantaneously ready for service and can easily be tested. *KOVO*

14/129

ROME Magnetic Speed Regulator of D. C. Machines

for economically varying, at will, the speed of a D. C. motor from zero to the maximum speed, and for maintaining it at a constant value. Accuracy of maintained speed $\pm 1\%$. Supply voltage 3×380 V.

Type ROME 0.3
Type ROME 0.7

motor output 0.3 kW
motor output 0.7 kW

KOVO

14/131

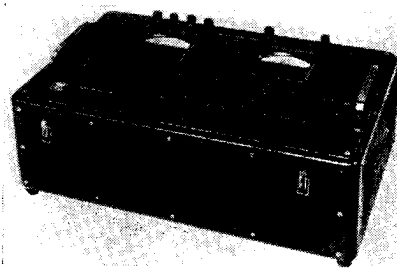
Pilot-less Remote Control (of cranes)

suitable for use in industrial installations under heavy service conditions. Frequency 27,120 mc, 8 independent control channels. *KOVO*

14/132

Non-contacting Thickness Meter

for measuring the areal weight of various materials by means of the beta radiation of various radio isotopes. *KOVO*

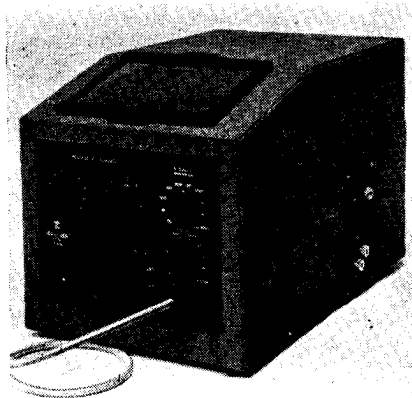


14/133

14/135

Loss-angle Meter

for measuring the loss angle of electrical motors and generators at the respective working voltage; it is very useful in the production of electrical machines. *KOVO*



14/134

14/134
Ferrograph

for measuring special magnetic materials with a high initial permeability.

KOVO



14/135

14/135
Ferrometer FM 02

is an electronic measuring instrument for measuring the magnetic properties of transformer and dynamo sheets for ascertaining quickly and accurately all values necessary for the qualification of ferro-magnetic materials. Supply voltage 220 V.

KOVO

14/136
Quality and Quantity Analyzer

for qualifying the realization of the production schedule in the course of the work-shift.

KOVO

14/137
Transient Phenomena Recorder

produces simultaneously graphic records of six phenomena on the tape of a magnetic recorder. Frequency band 0—1 kc.

KOVO

14/138
D. C. Tachodynamos T1 and T2

serve as control elements of servomechanisms and for indicating the number of revolutions. Excitation by means of permanent magnets, linearity $\pm 1\%$, the maximum A. C. component of the D. C. voltage is 0,5%.

KOVO

14/139
Two-phase Induction Servomotors SMA 1, SMA 2.5, SMA 5

serve as control elements in servomechanisms with the motor acting as the source of mechanical energy. Voltage 115 V, 500 c/s, outputs 1—2.5—5 W.

KOVO

14/140
Metal Thyratrons TK

for use as controlled electronic valves. Available types TK 001, TK 002, TK 003 (directly heated), and TK 004 (indirectly heated).

STROJEXPORT

14/141
Mercury Switches up to 30 A, 250 V A. C.

for small controlling forces and for making and breaking relatively large making and breaking capacities. Made of soft glass for small capacities and current ratings up to 10 A at 250 V A. C., or with a ceramic insert up to 15 A at 250 V. A. C., or of hard glass for current ratings up to 15 A at 250 V A. C., or with a ceramic insert for current ratings up to 30 A at 250 V A. C.

STROJEXPORT

14/142
Types ERO 3100 R and ERO 375 R
Speed Regulators of D. C. Motors

for gradually varying, at will, the speed of motor drives. Large range of speed variation independent from the load. Speed selection by means of a small potentiometer which makes it also suitable for remote control.

STROJEXPORT

14/143
Electronically Controlled Rectifier
U 300/25-R-30

STROJEXPORT

14/144
Electronic Lighting Regulator
ERSt 120

for gradually varying, at will, the brightness of filament and other lamps. No loss of power during the process of regulation. The regulation is based on the application of two thyratrons TK 001.

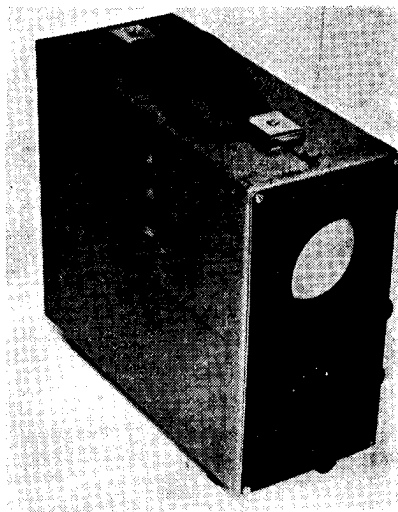
STROJEXPORT

14/145
Testing Device VELTECHNA
CS III

used for calibrating single-phase and three-phase electricity meters, and for

laboratory measurements (testing of electricity meters, measuring instruments, relays, etc.).

KOVO



14/146

14/146
Control Oscillograph

used for control and maintenance of instruments for remote measurements of the range of acoustic frequencies and D. C. voltages. Rated supply voltage 220 V.

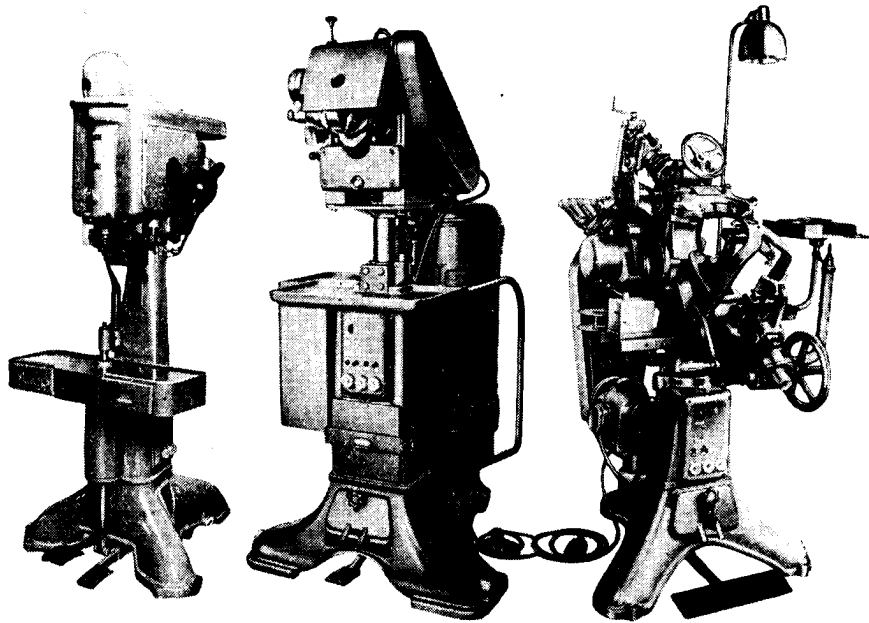
KOVO

From the periodical

CZECHOSLOVAK FOREIGN TRADE

you can learn about the products you have not seen at the exhibitions. The periodical appears three-times a year in six languages and contains information on the export products of all branches of the Czechoslovak industry.

15 TEXTILE, FOOTWEAR AND GRAPHIC MACHINERY



15/011

15/009

15/008

15/001
Folding Up Machine, Serial
No. 01221

The machine is used for flanging and folding up skived parts of upper leather or canvas in the manufacture of upper parts. The machine replaces, to a great extent, folding up by hand. Approximate weight: 107 kg. KOVO

15/002
Chainstitch Arm Sewing Machine,
Serial No. 01086

The machine finds use in the footwear industry. Two needle reinforcing binding sewing machine; needle pitch: 3.2 mm. Two needle false instep sewing machine; needle pitch: 8 mm./1.2 mm. Maximum number of stitches: 3000 per min. Maximum thickness of sewn material: 4 mm. Weight: 99 kg. KOVO

15/003
One Needle Post Bed Sewing
Machine with Trimmer, Serial
No. 01090

The machine is used for bordering folded uppers while simultaneously trimming the lining, or for bordering unfolded uppers with simultaneous trimming of the upper leather together with the lining. The design of the post bed machine enables easy guiding and turning of the upper in all directions. Maximum number of stitches per min.: 2700. Stitch length adjustable from 3 to 8 stitches per 1 cm. Weight: 108 kg. KOVO

15/004
Heavy Duty Single Needle Post
Bed Sewing Machine, Serial
No. 01192

The machine serves for sewing on vamps of working boot uppers. Appro-

ximate output: 400 pairs. Stitch number per minute: 1400. Stitch length adjustable from 2 to 4 stitches per 1 cm. Weight: 180 kg. KOVO

15/005
Heavy Duty Binding Sewing Machine, Serial No. 01119

The machine is used in the footwear industry for binding working boot uppers as well as for binding other products of medium tough materials. Maximum number of stitches per min.: 1400. Maximum thickness of handled materials: 12 mm. Approximate weight: 160 kg. KOVO

15/006
Automatic Bobbin Winder, Serial No. 01218

The machine is used for automatic winding of bobbins for the shuttles of sewing machines. The bobbins must have even sides, their dimensions being 20 to 25 mm. in diameter and 7 to 15 mm. in width. The machine works reliably with yarn up to No. 4 thickness. Output per 8 hours: 1200 bobbins. If small bobbins are wound, the output is still higher. Approximate weight: 65 kg. KOVO

15/007
Cement Applying Machine, Serial No. 02113

The machine is used for simultaneous applying of one, two or three layers of non-corrosive cement. Permissible thickness of materials: 0.4 to 6 mm. The applied cement layer is adjustable from 0.2 to 1 mm. Approximate weight: 150 kg. KOVO

15/008
One Action Pulling Over Machine by Cementing, Serial No. 02002/P 2

The machine supersedes toe flanging, lasting the forepart and roughing-up. It eliminates or combines several operations. Output of the machine in 8 working hours: 1200 shoes. Approximate weight: 790 kg. KOVO

15/009
Rough Rounding and Channelling Machine, Serial No. 04033

This machine serves to round and channel leather soles on lasted welt

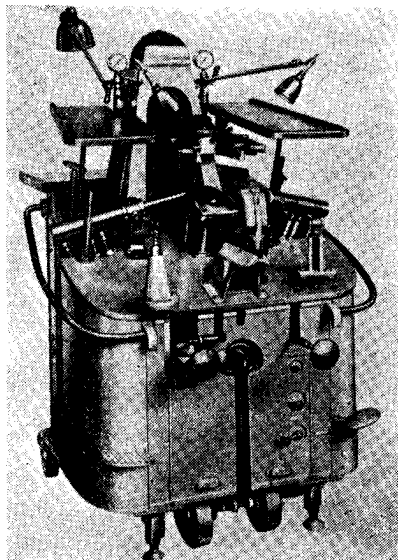
and flexible footwear. Output of the machine per 8 working hours: 1000 pairs of welt footwear, or 1500 pairs of flexible footwear. Approximate weight: 236 kg. KOVO

15/010
High-Speed Lockstitch Outsole Stitcher, Serial No. 03028/P 1

The machine is used for attaching leather and rubber soles to the welt or upper, employing two yarns to form a lockstitch. It is a high-speed machine, maintaining uniform, well tied stitches of good appearance. It will stitch any kind of footwear, from the lightest to the heaviest. Output in 8 working hours: When sewing heavy footwear, 350 to 400 pairs. Approximate weight: 380 kg. KOVO

15/011
High-Speed Sole Screwing Machine, Serial No. 04113

The machine is used for attaching outsoles to heavy leather boots (working and skiing boots) by means of studscrews which the machine automatically cuts from a spool of helically grooved brass wire. Output: 110 studscrews per min. Adjustable screw length from 0 to 20 mm. Approximate weight: 375 kg. KOVO



15/012
Universal Heel Attaching Machine,
Serial No. 04222

With this machine any type of heel can be attached to footwear of all kinds. Hydraulic heel pressing force adjustable by hand wheel: 500 to 4000 kg. Output - according to kind of job - 900 to 2000 pairs in 8 hours. Approximate weight: 490 kg. KOVO

15/013
Sole Edge Trimming Machine,
Serial No. 04105

The machine is used for the edge trimming of men's, ladies' and children's shoes with leather or rubber soles. Output of the machine in 8 hours: up to 500 pairs, according to the kind of footwear. Approximate weight: 292 kg. KOVO

15/014
Sole Bottom Ornamenting Machine,
Serial No. 04170

Output of the machine in 8 working hours: 1000 pairs. Heating element: 24 V, 180 W. Approximate weight: 185 kg. KOVO

15/015
Rubber High Boot Vulcanizing
Press, Serial No. 10707

The machine serves for pressing and vulcanizing high rubber footwear and similar footwear with a high accuracy and uniform quality. Pressure: 150,000 kg. Approximate weight: 2000 kg. KOVO

15/016
Rubber Boot Edge Trimming
Machine, Serial No. 10610

The machine is used for trimming of the surplus edges of rubber boots. Speed of the machine (maximum number of cuts): 2770 r. p. m. Approximate weight: 100 kg. KOVO

15/019
Jet Loom P 45

The loom is built for weaving of light bandage-like cotton and spun yarn fabrics. The loom is of shuttle-less type. The shuttle picking motion is replaced by an air-jet, and weaving is effected directly from crosswound cones. Wor-

king width: 30 to 45 cm. Speed: 800 r. p. m. Input: 0.7 kW. Weight: 310 kg. KOVO

15/020
Single-Cylinder Automatic
Knitting Machine JDa-34

for the production of ladies' seamless stockings from polyamide fibres. Maximum output of the machine: 14 pairs in 8 hours. Number of needles: 400. Cylinder diameter: 3 1/4". Approximate weight: 250 kg. KOVO

15/021
Double-Cylinder Automatic
Knitting Machine D 2 Rc

The machine serves for the manufacture of ladies' and men's socks, stockings and knee-socks. Electric motor: 0.25 kW. Weight: 275 kg. KOVO

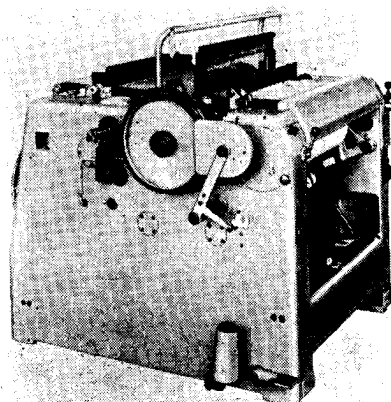
15/022
Interlock Circular Knitting
Machine, cylinder dia. 18"

The machine is designed for the manufacture of underwear from cotton, wool, cellulose, rayon or polyamide. A great number of knitting systems ensures a maximum output. Approximate weight of plain hosiery per shift: 20 kg. Input: 1.1 kW. KOVO

15/023
Ring Frame for Wet Spinning
of Flax, Type 0800

The Ring Frame is designed for the production of flax-line yarns, flax tow

15/019



yarns and their mixtures. Number of spindles: 64. The standard type machine has 192 spindles. Range of spun flax tow counts: 7 to 15 cm. Range of spindle speeds: 3500 to 6000 r. p. m. Input: 10 kW. KOVO

15/024

Hydraulic Calender 4624

This five-roller calender is designed for handling light and medium light fabrics made of cotton, linen, rayon and various fabric mixtures, about 80 to 250 gr./sq. metre in weight. Two types are available:

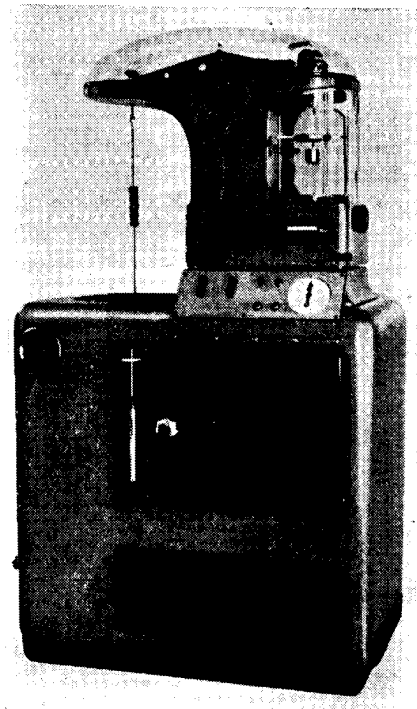
- a) Rolling calenders.
- b) Friction calenders.

Working speed: 40 metres per min. Maximum working width: 1000 mm. Input: 26.5 kW. KOVO

15/025

Metrical Yarn Wrap Reel

The apparatus is intended for quick and accurate measuring of yarn length and ascertaining its count. It is suitable for smaller test rooms. Dimen-



sions: 725×633×370 mm. Approximate weight: 18 kg. PRAGOEXPORT

Humidity Tester

The apparatus ascertains the degree of humidity of all textile fibres by means of an accurate drying method. Dimensions: 620×1010×1690 mm. Approximate weight: 180 kg. PRAGOEXPORT

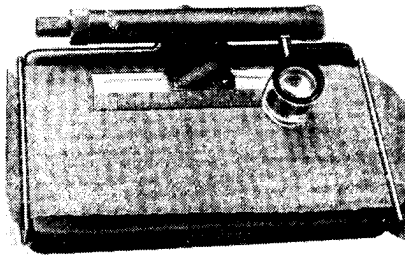


Weaver's Knotter

The apparatus increases productivity since it reduces the operating time in winding, warping and weaving. It ties reliably weaver's knots. Weight: 135 gr. PRAGOEXPORT

Textometer

The apparatus ascertains reliably the percentage of humidity of textile materials. PRAGOEXPORT



Recording Fabric Strength Tester

The electrically driven Recording Fabric Strength Tester serves for ascertaining the strength and stretch of textile

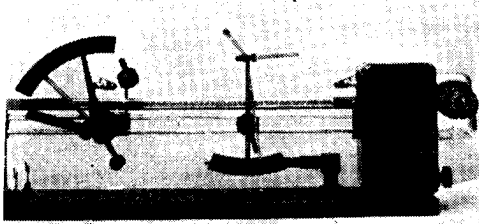
fabrics, knitted materials, leather, wire and other materials. Dimensions: 580×2190×460 mm. Weight: 350 kg. PRAGOEXPORT

Ends Counter 50

The apparatus is used for determining the number of yarn ends in a textile fabric pattern, 50 mm. in width. Dimensions: 110×60×50 mm. Weight: 0.7 kg. PRAGOEXPORT

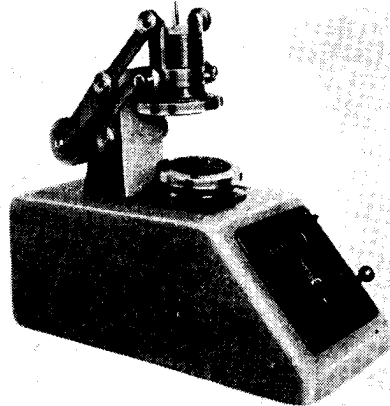
Ends Counter 100

The apparatus serves for ascertaining the accurate number of yarn ends in a textile pattern, 100 mm. in width. PRAGOEXPORT



Hand Operated Twist Tester

The apparatus is used for ascertaining the amount of twist or the number of turns in single- or multifold-twisted yarn. Clamping length: 0—50 cm., or 0 to 20 in. Dimensions: 120×320×850 mm. PRAGOEXPORT



Electrically Driven Twist Tester

The apparatus is used for quick testing

and ascertaining the amount of twist of single- or multifold-twisted yarn. Infinitely variable speed range: 0 to 2000 r. p. m. in both directions. Dimensions: 142×343×925 mm. PRAGOEXPORT

Rotary Cloth Wear Testing Machine

The machine serves for ascertaining the wear due to abrading of fabrics, cloths, rugs, etc. Dimensions: 270×520×580 mm. Weight: 59 kg. PRAGOEXPORT

Thickness Meter

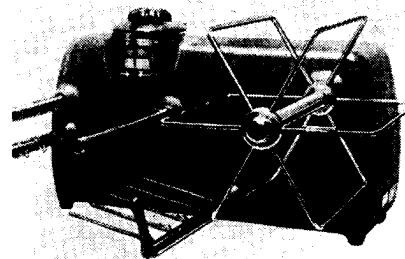
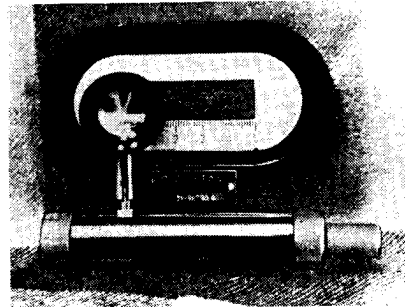
The apparatus is used for measuring the thickness of fabrics, felt, leather, etc. with an accuracy of 1/100 mm. Dimensions: 120×160 mm. Weight 2.6 kg. PRAGOEXPORT

Isometer

The apparatus ascertains the nonuniformity of sliver and roving. Dimensions 245×150×300 mm. Approximate weight: 15 kg. PRAGOEXPORT

Sample Bag

is a simple and reliable packing for the transport of textile samples which maintain their constant humidity. Dimensions: 80 mm in dia., length: 300 mm. Weight: 0.5 kg. PRAGOEXPORT



**Double-Wall and Double-Crown
Knotter**

for yarn winding and other technological processes. Dimensions: 22×63×52 mm. Weight: 125 gr.

PRAGOEXPORT

**15/026
Boxes - Textile Accessories**

KOVO

**15/027
Automatic Loom F 44/1**

The loom is designed for weaving cotton fabrics. Working width: 113 cm. Reed width: 120 cm. Speed: 190/200 r. p. m. Electric motor: 0.8 kW. Weight: 1650 kg.

KOVO

**15/028
Model of a Complete Footwear
Factory**

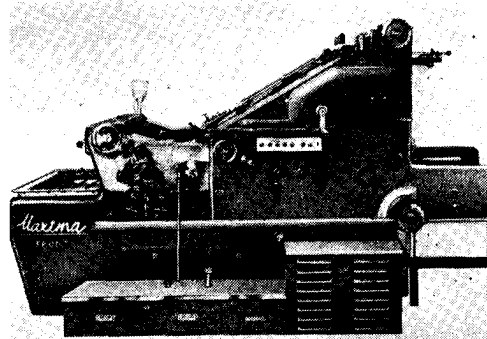
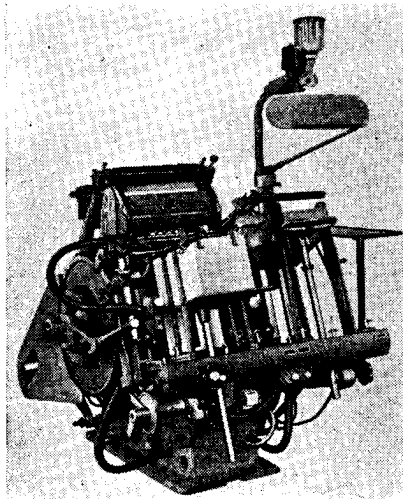
KOVO

16 GRAPHICAL MACHINES

**16/029
MAXIMA-FRONT**

high-speed Automatic Letterpress Machine. Paper size: 56×76 cm. Output: 3600 prints per hour. Three forme inkers. The printed sheet is taken over from the cylinders by spring loaded grippers.

KOVO



**16/030
GRAFOPRESS**

Automatic Platen Printing Machine, suitable for complicated multicoloured jobs. Paper size: 26×36 cm. Maximum output: 5000 prints per hour.

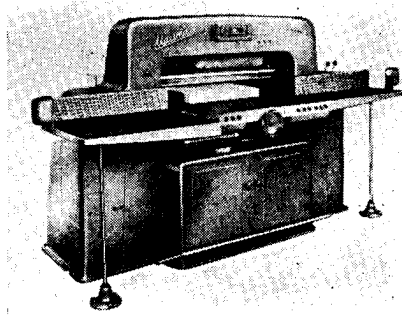
16/030

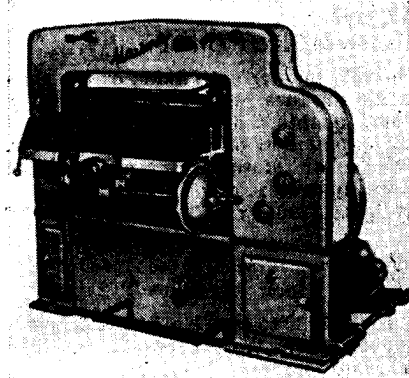
KOVO

**16/031
MAXIMA MH 106**

Hydraulic Paper Cutting Machine. The machine meets the highest requirements. Width of cut: 106 cm. Hydraulic

16/029





16/032

cutting and clamping device. Double push-button photo-electric safety control. Automatic strip cutting device.

KOVO

**16/032
MAXIMA MH 78**

Hydraulic High-Speed Guillotine. Hydraulic clamping and mechanical knife

motion. Double push-button safety control. Width of cut: 78 cm.

KOVO

**16/033
MAXIMA-GUARDIAN**

Disc Type Cleaner of matrices of linotype or intertype setting machines. Output: 1800 kg per hour. The cleaner increases the service life of type setting matrices and reduces manpower.

KOVO

**16/034
Bench Type Line Saw**

for accurate machining of type lines and typographic materials. Size of work table 25×25 cm.

KOVO

**16/035
Type Setting Matrices and Wedges
MAXIMA**

"Brno Z" printing type in bold type and incised italics. Menhart Triga with italics. "Kolektiv" book printig type in bold type and italics. Novelty: Editorial type with bold type and italics. Wedges for type setting machines.

KOVO

**17 BUILDING AND ROADMAKING
MACHINES**

**17/001
Road Roller NV 15 E**

for building railway tracks, roadbeds and road embankments, gravelled roadways and airfields. It is provided with hand and hydraulic control. Rolling width: 2400 mm. Working weight with counterweight: 15.000 to 18.000 kg. Škoda 4 S 110 engine. Average speed: 1.5 to 5.8 km./hr.

STROJEXPORT

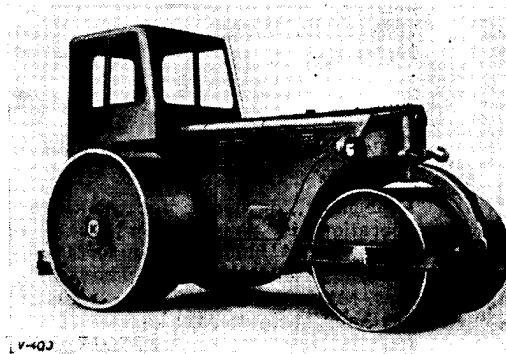
Working weight with counterweight: 10.600—12.600 kg. Škoda 3 S Engine. Average speed: 1.5 to 4.5 km./hr.

STROJEXPORT

17/002

**17/002
Road Roller NV 10 E**

for building railway tracks, roadbeds and road embankments, gravelled, tarred or asphalt roadways and airfields. Rolling width: 2050 mm.



17-002

17/003
Glazing Machine

The AGO type automatic glazing machine serves for glazing wall-tiles.

TECHNOEXPORT

Edge Mixer MiK 1500, dia. 1500

used for intense and periodical kneading of pulverised materials for the production of refractory bricks. The humidity of the processed materials must not exceed 15 p. c.

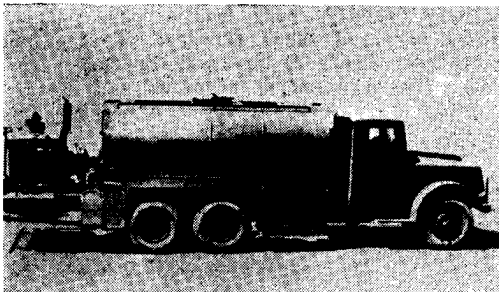
Worm Press LŠ-355-1

used for moulding drawn ceramic mouldings of brick-clay.

STROJEXPORT

17/004
Model of a Ceramic Factory

TECHNOEXPORT



17/005

17/005
Bitumen Sprinkler

for sprinkling the roadbed with bitumen, tar or emulsion. Tank capacity: 7000 litres. Weight of empty truck: 13,000 kg.

STROJEXPORT

17/006
Concrete Mixer, 100 cu. metres per hour

Especially designed for continuous operation in construction plants of large scale industrial undertakings, buildings and water development schemes. Maximum output: 120 cu. metres per hour. Weight: 7300 kg.

STROJEXPORT

17/007
Concrete Mixer C 501

suitable for perfect mixing of the concrete mixture with an addition of a small quantity of water, such as for the production of prefabricated parts. Mobile or stationary type. Output: 8 cu. metres per hour. Input 6.5 kW. Weight: 3800 kg.

STROJEXPORT

17/008
Hollow Block Machine T 2

Output: 1000 to 1400 blocks per 8 hours. Input: 3 kW. Weight of the machine without compressor: 850 kg.

STROJEXPORT

Rope Conveyor LT 1

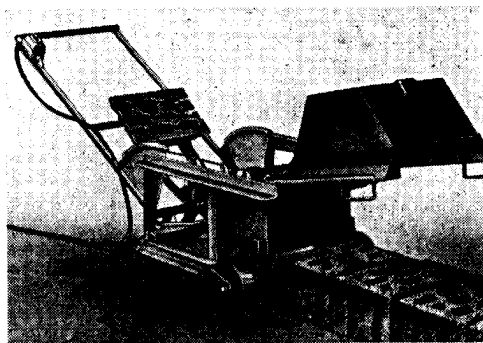
for use with the hollow block press. It serves for conveying raw hollow blocks to drying chambers. Input: 0.4 kW. Weight: 800 kg.

STROJEXPORT

17/009
Mortar Pump and Plastering Machine OB 4

New, improved design. Output: 60 sq. metres per hour. Input: 3 kW. Weight of the pump without hose and compressor: 730 kg.

STROJEXPORT



17/010

17/010
Hand Hollow Block Machine RT 1

for the production of hollow blocks and prefabricated parts from light materials on a small scale. Daily output of one operator: 400 to 500 pces. Weight: 100 kg.

STROJEXPORT

17/011
Vibrating Screen VSM 1

for the removal of coarse grains in mortar. Weight: 150 kg.

STROJEXPORT



17/013
Structure Steel Bending Machine OS 41

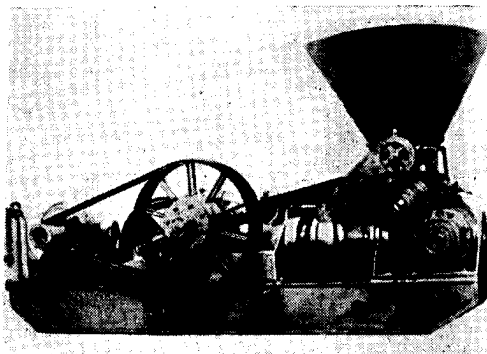
for bending structure steel, 40 mm. in dia. on building sites. Weight: 1000 kg.

STROJEXPORT

17/014
Sectional Transporter DD 650/50

used for conveying sand and other loose materials. The sections are 1.5 metre long. Maximum output: 140 cu. metres per hour. Input: 7.5 kW. Weight: 4200 kg.

STROJEXPORT



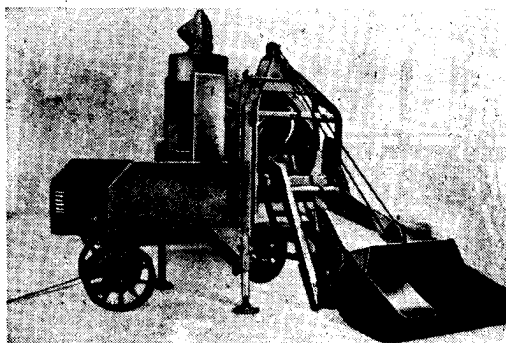
17/015
Concrete Pump CB 6

for conveying concrete mixture both vertically and in the horizontal plane.

17/015

Output: 6 cu. metres per hour. Input: 20 kW. Weight: 2800 kg.

STROJEXPORT

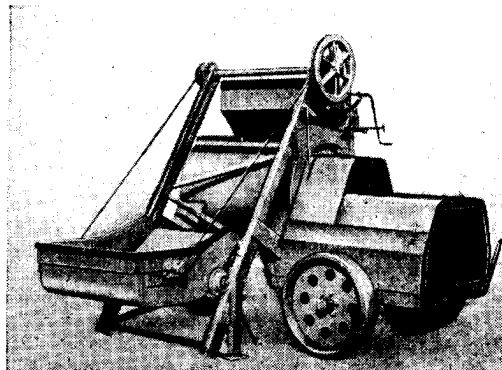


17/016

17/016
Concrete Mixer K 500

for mixing concrete mixture. Output with 15 mixtures: 7 cu. metres per hour. Input: 7.5 kW. Weight: 2950 kg.

STROJEXPORT

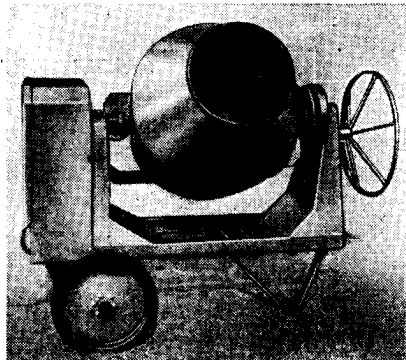


17/017

17/017
Mortar Mixer MM 250

for mixing mortar in larger quantities. The machine has been designed on the principle of forced mixing. Output: 4 cu. metres per hour. Input: 4.4 kW. Weight: 1500 kg.

STROJEXPORT



17/018

17/018
Mobile Concrete Mixer H 65

for small indoor jobs and repairs. Output: 1 cu. metre per hour. Input: 0.8 kW. Weight: 366 kg. *STROJEXPORT*

17/019
Concrete Mixer K 250

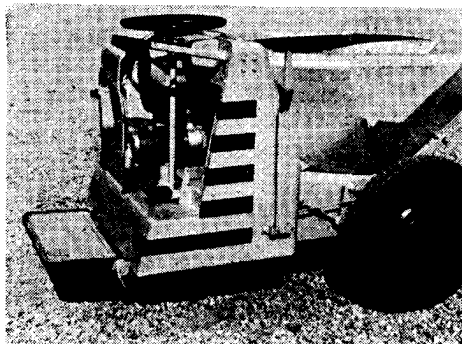
for mixing concrete on smaller building sites. Semi-automatic control. Output: 4 cu. metres per hour. Input: 4.2 kW. Weight: 1500 kg. *STROJEXPORT*

17/020
Pneumatic Ram PB 200

The ram serves for driving piles, 6 to 7 metres long and 150 to 250 mm. in diameter, into the bed of a river or soft, marshy ground as support for the foundations of a building or bridge. Air consumption: 0.8 to 0.9 cu. metre per min. Overall weight with accessories: 245 kg. *STROJEXPORT*

17/021
Ram DB 45

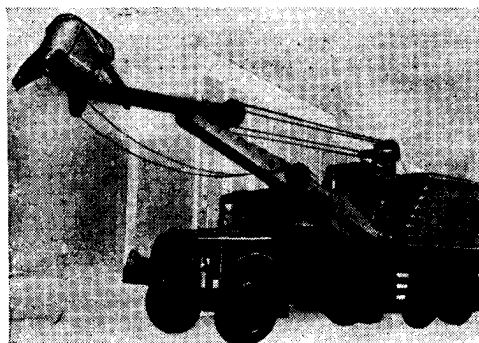
for driving piles into earth as support for the foundations of a building or bridge. *STROJEXPORT*



17/023

17/023
Power Buggy MV 250

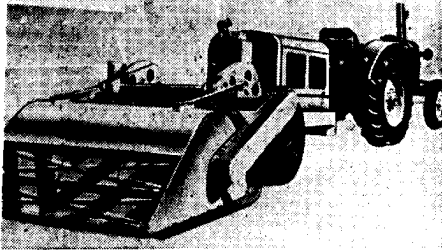
for transportation of sand, loose materials or liquids in a box which can be replaced by a platform of 500 kg. carrying capacity. The buggy is driven by a double-stroke petrol engine. Capacity of the box: 250 litres, heaped 350 litres. Weight: 380 kg. *STROJEXPORT*



17/024

17/024
Power Shovel D 030

mounted on the chassis of the Tatra 111 truck. The excavator is driven by an independent Skoda oil engine. The individual mechanism can be replaced by various attachments. Shovel capacity: 0.35 cu. metre. Weight: 17,500 kg. *STROJEXPORT*



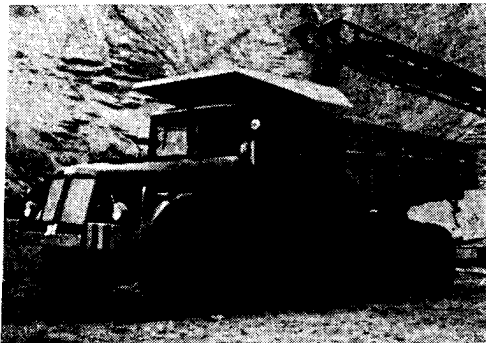
17/025

17/025
Soil Cutter PF 1900

for loosening and aerating soil or mixing materials in building roads and airfields. The machine is driven by an air-cooled oil engine. Weight: 3615 kg.
STROJEXPORT

Zetor Super Wheel Tractor

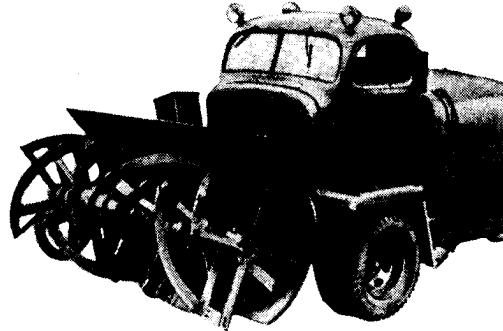
is recommended for hauling the soil cutter.
MOTOKOV



17/026

17/026
Dumpear DC 5

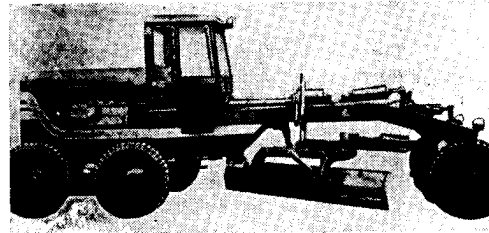
for transportation of earth on building sites. The box which is mounted on the chassis of the Tatra 111 truck, has a capacity of 5 cu. metres or 6 to 7 cu. metres if piled. Hydraulic tipping mechanism. Weight: 9600 kg.
MOTOKOV



17/028

17/028
Snow Plough SF

intended for removing snow drifts from roads and airfields. The snow is blown off by ventilators up to a distance of 30 metres. Weight: 8100 kg.
STROJEXPORT



17/029

17/029
Grader PRAGA T S-6

used in road building and gravelling, surface dressing, building of embankments and slopes.
STROJEXPORT

17/030
Model of A Building Site

On the building site are models of excavators RY 1, locomotives and road rollers.
STROJEXPORT

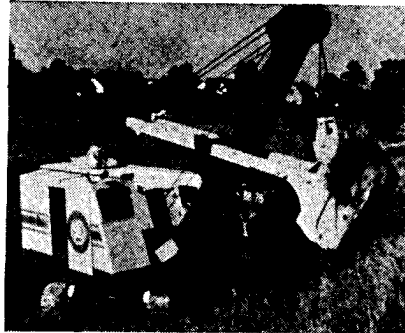
17/031
Tank VLH, 10 T

used for transportation of pulverised bulk materials, such as cement. Provided with overpressure discharging equipment. Capacity: 10 tons. Weight: 10,500 kg.
STROJEXPORT

17/032
**Truck for Loose Pulverised
Materials with Overpressure
Discharging Equipment**

for transportation of pulverised bulk materials, such as cement. Overpressure discharging equipment. Capacity: 40 tons. Weight: 32,600 kg.

STROJEXPORT



17/033
Bulk Cement Reloading Station

for reloading bulk cement from special railway trucks to road trucks or other conveying equipment. *STROJEXPORT*

17/034
**Zetor Super Crawler Type Tractor
with Share**

for surface dressing and forestry jobs, such as road building in forests, etc. Weight with share: 4800 kg. *MOTOKOV*



17/035

17/035
**Universal Excavator with Dragline
E 25**

Shovel capacity: 2.5 cu. metres. Input: 210 kW. Weight: 105,000 kg.

STROJEXPORT

17/036 17/036
Universal Shovel Excavator D 500

Drive by means of an oil engine. Shovel capacity: 0.5 cu. metre. Weight: 21,500 kg.

STROJEXPORT



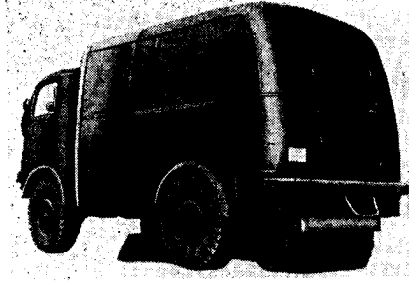
17/037 17/037
Concrete Finisher FB 7.5

for building roads and airfields. Adjustable to three working widths. Drive by means of the Škoda 2 S 110 oil engine. Maximum working width: 7.5 metres. Weight: 7000 kg. *STROJEXPORT*

17/039
Cement Spreader

This cement truck attachment serves for accurate proportioning of cement in building roadbeds. Quantity of spread cement: 6 to 30 kg./sq. metre. Spread width: 2 metres. Weight: 700 kg.

STROJEXPORT

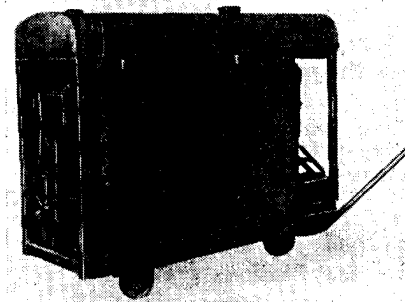


17/040

17/040
Automatic Sweeper ZSI-T 805

serves for sweeping streets, factory yards, bays, etc. Mounted to the T 805 motor truck chassis. The sweeping roller behind the rear wheels delivers the impurities into a collecting tank. Width of swept trip: 2 to 2.4 metres. Weight of empty car: 3100 kg.

STROJEXPORT

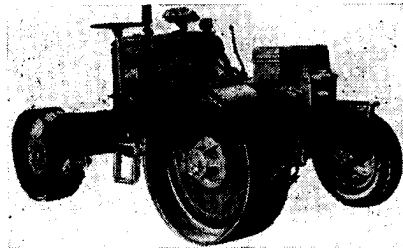


17/044

17/044
Hot-Air Generating Set

used for heating and drying of buildings with hot air and flow heating of water for the production of mortar and concrete in winter. Thermal output: 120,000 Kcal/hour. Input: 4 kW. Weight: 920 kg.

STROJEXPORT



17/041

17/041
Highway Strip Widening Roller

used for surface dressing of strips in widening roads, curbs, gutters and sidewalks. Drive by means of an oil engine. Output: 20 H. P. Weight: 4700 kg.

STROJEXPORT

17/043
Concrete Pump CB 12

used for conveying concrete on large building sites. Output: 12 cu. metres per hour. Input: 36 kW. Weight: 3000 kg.

STROJEXPORT

17/045
Concrete Mixer KM 10

for continuous production of concrete. The machine which is mounted on a two-wheel undercarriage can be hooked to any vehicle. Output: 10 cu. metres per hour. Input: 5.5 kW. Weight: 980 kg.

STROJEXPORT

17/046
Continuous Weighing Equipment

for weighing fractions of cement during continuous mixing in large cement factories. This equipment is also suitable for continuous weighing during various chemical processes. Output: 50 tons per hour. Input: 1.2 kW. Weight: 1000 kg.

STROJEXPORT

17/047
Tank for Cement Spreader

mounted on T 111 chassis. Also suitable for bulk cement. The tank is discharged by rippling. Capacity: 9.5 cu. metres. Weight: 9300 kg.

STROJEXPORT

17/048
Hydraulic Vibration Press
for the production of hollow blocks,
boards and various parts of concrete,
dross and other building materials.
Output: 480 hollow block per hour.
Input: 17 kW. Weight: 5 tons.
STROJEXPORT

17/049
Vertical Stationary Cutter
of Refractory Materials SVF 1
for handling ashlar of refractory ma-
terials and stones of minor toughness.
Maximum dimensions of worked ash-
lar: 1600×1000×300 mm. Input: 25 kW.
Weight: 6500 kg. *TECHNOEXPORT*

17/050
Model of a Line for the
Production of Longitudinal Parts
STROJEXPORT

17/051
Single Axle Tractor T 180
finds use with TV 10 off-road trailer
scraper, etc. Tatra 111 oil engine.
Weight: 7500 kg. *STROJEXPORT*

17/052
Off-Road Trailer TV 10
for use with T 180 single-axle tractor.
Geometrical capacity: 10 cu. metres,
heaped: 12.5 cu. metres. Side-wall dis-
charging. Weight: 10,500 kg.
STROJEXPORT

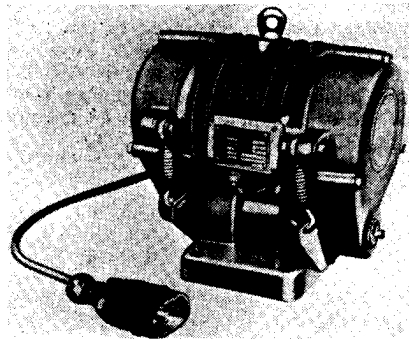
17/053
Mammoth Vibrator OV 1
for solidification of dams, etc. Weight
of the machine, complete: 20,000 kg.
STROJEXPORT

17/054
Gantry Crane GO 2×5 T
The lift of the crane is effected by
means of two detachable winches,
driven by 14 kW electric motors and
BMT 2/M electromagnets. When travel-
ling, the crane is also operated by two
14 kW electric motors. Capacity 2×5
tons. Maximum lift: 25,000 mm. Tra-
velling speed: 31 metres per min. Speed

of lift: 5 metres per min. Weight
without rails: 51.9 tons.
STROJEXPORT

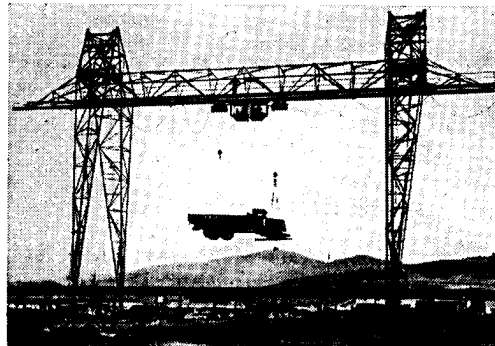
17/055
Aluminium Semi-Gantry Crane
STROJEXPORT

17/059
High-Speed Elevator RV 600
serves for conveying materials in build-
ing houses, chimney-stacks, etc. It is
adapted for the transportation of
buckets, wheelbarrows, stone, etc. Ca-
pacity: 600 kg. Motor input: 8 kW.
Weight including guiding: 1900 kg.
STROJEXPORT



17/060 17/060
Surface Vibrator EVU 250 A
finds a wide field of application in the
building trade, chemical, food-stuffs
or metallurgical industries. Input:
0.25 kW. Weight: 40 kg.
STROJEXPORT

17/054



Fly



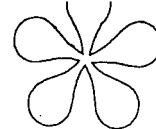
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PRŮMYSL POTRAVIN
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RUDY
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XXV

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Surface Vibrator EVU 500

Same application as of 250 A EVU vibrator. Input: 1.1 kW. Weight: 65 kg.
STROJEXPORT

Surface Vibrator EVU 1000

Application as above. Input: 2.4 kW. Weight: 96 kg.
STROJEXPORT

17/061

Immersion Vibrators PV 200 A

for vibrating smaller quantities of concrete. Also suitable for vibrating structures with steel struts and high buildings. Input: 0.5 kW. Weight with accessories: 25 kg.
STROJEXPORT

Immersion Vibrator PV 500 A

Same application as of PV 200 A vibrator. Input: 1.6 kW. Weight with accessories: 73 kg.
STROJEXPORT

17/063

Universal Shovel Excavator D 100

A new type and design of a hydraulic dredger. Shovel capacity: 1 cu. metre.

17/064

Crushing Set DS 20

A complete mobile crushing set.

17/065

Rotary Valve Cement Packing Machine

17/066

Model of a Cement Factory

17/067

Mortar Pump CM 6

for pumping mortar both vertically and in the horizontal plane. Output: 6 cu. metres per hour. Input: 7 kW. Weight: 680 kg.
STROJEXPORT

17/068

Locomotive BNK 30

Narrow gauge locomotive with oil engine for use in industrial plants. Gauge: 500 to 800 mm. Tractive force on hook: 1140 kg. Output: 30 H. P. Weight: 5400 kg.
STROJEXPORT

17/070

Pneumatic Concrete Pump

for concreting in mines, tunnels, etc. Tank capacity 370 litres, transport time of one charge 30—60 seconds. Length of the delivery pipes up to 60 metres.

The periodical

CZECHOSLOVAK FOREIGN TRADE

supplies information on the export products of all the sectors of the Czechoslovak industry. Reports on fairs and exhibitions, reports on trade policy and foreign press comments, supplement the contents of the richly illustrated periodical, issued six times annually in English, German, Russian, Spanish, Portuguese and French.

18 CONVEYING EQUIPMENT

18/001 Travelling Conveyor with Rubber Belt

The conveyor is used for conveying loose materials on building sites, and piece goods up to 10 kg in weight at a shorter distance and higher delivery height. STROJEXPORT

18/002 Bucket Elevator

intended for vertical transportation of loose materials. It consists of buckets, fitted to an endless rubber belt or chain. Speed of bucket: 1,15 metre per sec. Output 50 cu. metres per hour. STROJEXPORT

18/003 Mechanical Shovel with Double Hopper, Type MLP 2

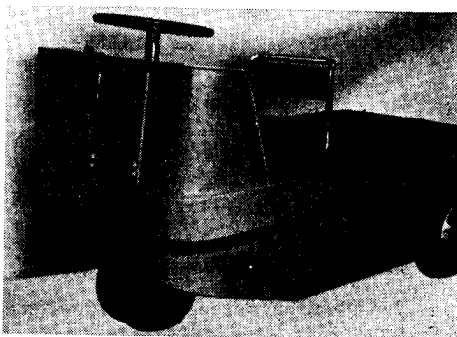
used for transporting large quantities of materials, such as coal, coal-dust, sand, grain and lumps of coal up to 60 mm. in dia. Output: 20 to 40 cu. metres per hour. Maximum working range: 15 metres. STROJEXPORT

18/004 Loader, Type Brom

intended for loading trucks with non-abrasive loose materials up to 60 mm. (light and crushable materials) or 30 mm. in granulation (heavy materials at a lower output) and loosened earth from heaps. Output: 50 to 80 cu. metres per hour. Forward travelling speed: 8.5 km./hr. or 2.4 metres per sec. STROJEXPORT

18/005 Resonance Conveyor

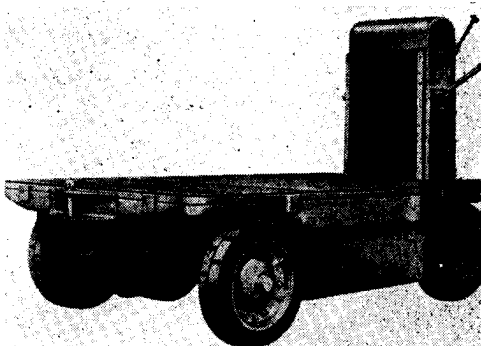
used for transportation of loose materials, such as moulding sand, steel chips, agglomerated sinter, ores, saltpetre, etc. Output: up to 40 cu. metres per hour. STROJEXPORT



18/008

18/008 Battery Tractor, Type AT 1521

used for transportation by means of trailers. It finds use in railway-stations, harbours, industrial plants and wherever trailers are preferred to other means of transport. Trailer loading capacity: 1500 kg. STROJEXPORT



18/009

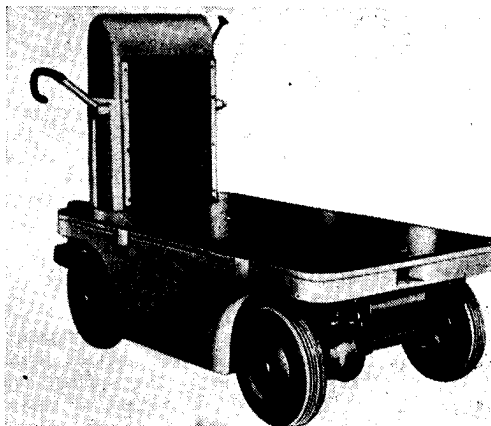
18/009 Platform Battery Truck, Type AP 522

This efficient vehicle is used for local transportation of all kinds of materials and goods in industrial plants, warehouses, railway-stations, harbours, etc. It is fast, very mobile, easy to manoeuvre, cheap in operation and maintenance and therefore economical. Rated capacity: 500 kg. STROJEXPORT

18/010
Platform Battery Truck,
Type AP 1522

This efficient vehicle is used for local transportation of all kinds of materials and goods in industrial plants, warehouses, railway-stations, harbours, etc. It is fast, easy to manoeuvre, cheap in operation and maintenance and therefore economical. Rated capacity: 1500 kg.

TECHNOEXPORT

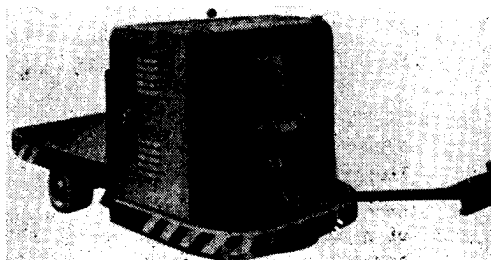


18/010

18/011
Electric Battery Pedestrian Hand
Operated Truck with Low Lifting
Platform, Type ANR 511

This vehicle which is provided with its own drive, serves for conveying various kinds of materials and goods. The operator does not stand on the truck but he walks by, guiding the truck by the shaft. Rated capacity: 500 kg. Lift: 140 mm.

STROJEXPORT

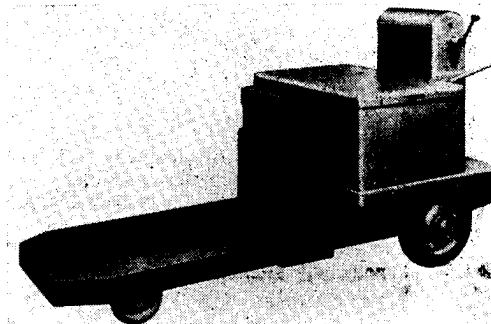


18/011

18/012
Low Lift Electric Battery Truck,
Type AN 1522

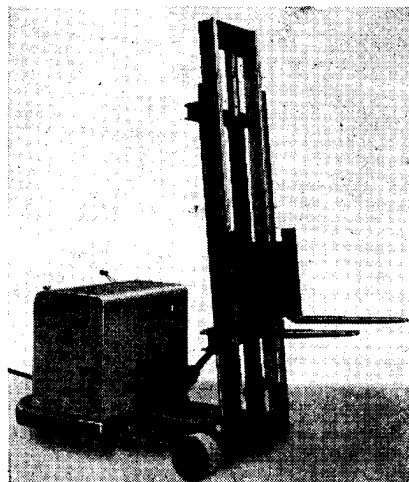
used for conveying all kinds of materials, goods, semi-products or finished products or specially adapted platforms or stands, in cases or vessels. Rated capacity: 1500 kg. Lift: 140 mm.

STROJEXPORT



18/012

18/013



18/013
Electric Battery Pedestrian Hand
Operated Truck AVR 511

with high lifting forks and own drive. The operator guides the truck by its shaft. Rated capacity: 500 kg. Lift: 3000 mm.

STROJEXPORT

18/014
High Lift Fork Electric Battery
Truck, Type AV 1522

serves for transporting all kinds of materials and goods in warehouses and factories up to a lift of 3 metres. Rated capacity: 1500 kg. Lift: 3000 mm.

STROJEXPORT

18/016
Petrol Driven High Lift Fork
Truck, Type SV 1522

used for storing, loading, peletization or transportation of all kinds of goods and materials within short distances, especially in yards, well air-conditioned workshops, warehouses or on ramps. The operation of the petrol engine is not dependent on the length of the working shift. It is preferably used on sites where a charging station cannot be installed without difficulty. Rated capacity: 1500 kg. Speed: 15 km. per hour.

STROJEXPORT

18/017
Portable Conveyor with Rubber
Belt

used independently or as a part of a conveying line in transporting small piece goods.

Portable Slat Conveyor

used for conveying bags, cases and various piece goods.

STROJEXPORT

18/018
Railway Wagon Shunter, Type 414

intended for shunting railway and other wagons on factory sites, sidings, rail-yards, etc.

STROJEXPORT

18/020
Overhead Runway Conveyor,
Type Teleflex 455

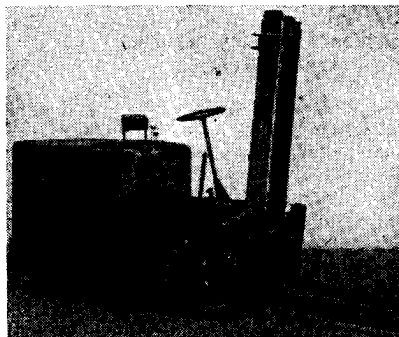
for conveying piece goods.

STROJEXPORT

18/021
Flowroll Gravity Conveyor

used for an independent conveyance of piece goods, such as bags, cases, etc., or as a section element of linked track.

STROJEXPORT



18/014

18/022
Worm Geared Chain Pulley Block,
Type K 50 - 1 ton

Weight: 24 kg. Approximate lift: 3 metres. Capacity: 0.5 ton. *STROJEXPORT*

18/023
Brano Chain Pulley Block
K 50 - 2 tons

Weight: 98 kg. Approximate lift: 3 metres. Capacity 2 tons. *STROJEXPORT*

18/024
Spur Geared Chain Hoist, 3.2 tons

New type. The lifting mechanism is carried in bearings. Approximate lift: 3 metres. Weight: 70 kg. Capacity: 3.2 tons. *STROJEXPORT*

18/025
Brano Pull Lift, 2 T

Weight: 22 kg. Lift: 1.35 metre. Capacity: 2 tons. *STROJEXPORT*

18/026
Brano All Steel Lifting Jack,
Type Z 20 - 5 t

Weight: 21 kg. Lift: 400 mm. Capacity: 5 tons. *STROJEXPORT*

18/027
Hydraulic Jack, Type CHZS - 25 t

with oil filling. Weight: 46 kg. Lift: 145 mm. Capacity: 25 tons.

STROJEXPORT

18/028
Low Lift Truck, Type NZV 1200

designed for use on factory sites and store-yards for loading or discharging all types of trucks, etc. Capacity: 1200 kg. Lift: 125 mm. *STROJEXPORT*

18/029
Suspended Conveyor with Moving Rope, Type VZV 600

used for lifting and conveying goods in industrial establishments, warehouses, depots as well as for loading railway- and motor-trucks. Capacity: 600 kg. Lift: 1400 mm. Weight: 250 kg. *STROJEXPORT*

18/030
Hoisting Platform, Type MSP 350

used in the construction of locomotives, boilers, turbines, heavy machine tools, airplanes, etc. Carrying capacity: 350 kg. Lift: 1500 mm. Weight: 470 kg. *STROJEXPORT*

18/031
Hoisting Platform, Type MP 1500

serves for short distance transportation and handling of loads up to 1500 kg. in weight. Also suitable for handling pressings, heavy fixtures, etc. *STROJEXPORT*

18/032
Hand Crane RPJ 600

serves for lifting and short distance transportation of loads on straight and hard roads, in industrial plants, warehouses, depots, repairshops, etc. Carrying capacity: 630 kg. Lift: 1500 mm. *STROJEXPORT*

18/034
Palette I

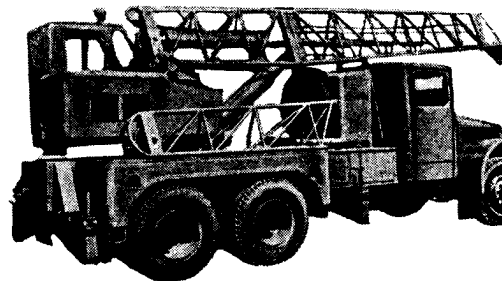
used for conveying or storing of piece goods or loose materials in bags, cases, cartons, etc. Maximum carrying capacity: 1000 kg. Weight: 30 kg. *STROJEXPORT*

18/035
Overhead Travelling Crane 50/8 t

Remote controlled with short-wave transmitter. Main lift capacity: 50 tons. Auxiliary lift capacity: 8 tons. The crane is intended for carrying heavy loads. *STROJEXPORT*

18/036
Typified Crabs

of 5, 12 or 32 ton capacities, for use with overhead travelling cranes. *STROJEXPORT*



18/037
Mobile Crane HSC 4

designed for lifting and carrying loads up to 4,000 kg. in weight. Span: 6 metres. The crane is mounted on the undercarriage of the Tatra 111 truck. Capacity at a span of 6 metres, 4000 kg, 8,5 metres, 2500 kg. Weight: 11,500 kg. *MOTKOV*

18/038
Building Crane SJ 16

suitable for a vertical conveyance of loads on building sites, store yards, etc. It consists of a bogie, column, jib, revolving frame, moving mechanisms, mobile counterweight and a pulley block with steel ropes. Capacity: 1000 kg, 2500 kg. Span: 16 metres, 6.4 metres. Lift: 16.5 metres, 29.3 metres. Weight of crane: at. 16 tons. *STROJEXPORT*

18/039
Model of Earth Moving Machinery for large earth moving jobs

It consists of 1 type D 400 excavator, 1 two-section long distance belt conveyor, 2 belt conveyor spreaders. Output: 580 cu. metres of compact soil per hour. *TECHNOEXPORT*

18/040

Mechanical Shovel, Type MLP 1

serves for discharging or loading all types of loose materials up to 50 to 60 mm. in dia. It is supplied, if required, with hoppers for conveying materials or a hopper for discharging railway-trucks. *STROJEXPORT*

18/041

Mechanical Shovel MLS 1

This stationary mechanical shovel serves for conveying large quantities of materials, such as small-sized coal, coaldust, sand or grain. Output: 10 to 25 cu. metres per hour. Weight: 306 kg. *STROJEXPORT*

18/042

**Special Adjustable Disc
Type Feeder, diameter 1000**

used for uniform feeding of heavy soil to the next conveyor. *STROJEXPORT*

18/043

20 ton Trailer

designed for transportation of heavy building machines on roads, and heavy loads in general. Capacity: 20 tons. Loaded area: 5000×2880 mm. Permissible speed with a fully loaded trailer: 40 km./hr. *STROJEXPORT*

18/044

"Orlik" Concrete Bucket

with pneumatic drive of closing devices, used for concreting the Orlik dam. Ca-

capacity: 20 tons. Span: 695 metres. Cubature: 6.5 metres. *STROJEXPORT*

18/045

**Set of Dust-Proof Apparatus for
the Removal of Fly-Ash,
Type TRA - IV**

designed for hydraulic conveyance of fly-ash from boilers and separators to floating channels. *STROJEXPORT*

18/046

Set of Roller Sections

The roller sections are a substantial part of a belt conveyor. The displayed roller sections are of light, heavy and self-adjustable type.

18/048

Sectional Wheel Conveyor KD 2000

finds a wide field of application on factory sites, in warehouses, in loading and discharging railway- or motor-trucks, etc. Capacity: 100 kg. Length of section: 2000 m. Width of cross-bar: 550 mm. *STROJEXPORT*

18/163

R-1 Electric Pulley Block

For smooth vertical transport of loads up to 250 kg or 550 lbs weight. With monkey carriage attachment suitable also for horizontal transport in workshops and storerooms; advantageous for building and maintenance purposes. Weight 42 kg or 92.48 lbs. *STROJEXPORT*

19 FOOD-MAKING MACHINES AND REFRIGERATING TECHNIQUE

19/001

RAPID Beat Cutting Press

The machine removes excessive water from lixiviated beet cuttings by pressing them in a cylindrical strainer. By means of a revolving spindle the cuttings are pressed and water is extracted. Capacity: 3000 to 4000 q. of beet per 24 hours. *TECHNOEXPORT*

19/002

Suspended Beet Cutter

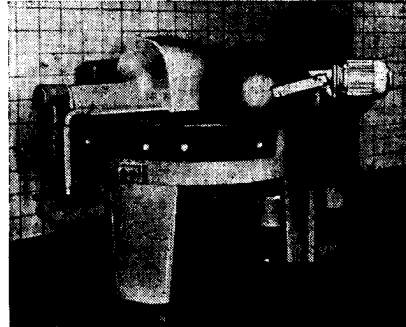
The cutter cuts washed beet into cuttings, suitable for the extraction of diffusion juice. The sugar beet in the hopper basket is pressed by its own weight to the knives which are fixed in 16 knife holders. Capacity: 650 to 1050 tons per 24 hours. *TECHNOEXPORT*

19/003
Brewhouse

of a development test brewery. The pans which are made of steel or copper, are designed for an output of 80, 100 or 160 hectolitres. Double steam or fire heated pans have a capacity of 200 or 250 hectolitres. *TECHNOEXPORT*

19/004
Design of the Brewery
at Topolčany

TECHNOEXPORT



19/008

19/005
Four-Roller Mill, Type MH

The machine which is provided with 1000/250/250 rollers, is intended for the grinding of all kinds of cereals, maize, sugar, salt, spices and chemicals. *TECHNOEXPORT*

19/006
Laboratory Sifter

The machine checks the granulation of flour products and chemicals. By sifting 100 gramme samples the percentages of the various flour grades according to the size of grain, are ascertained. *TECHNOEXPORT*

19/007
Automatic Meat Mincing Machine,
Model 112

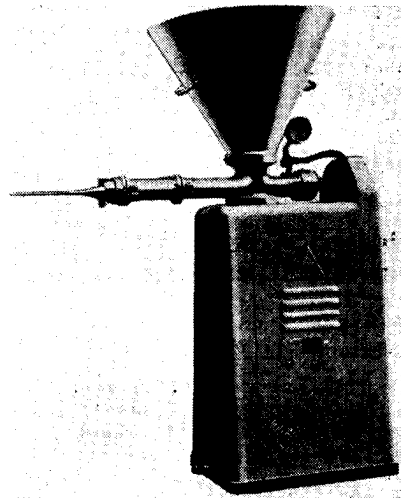
Capacity: 1200 to 2000 kg. of minced meat per hour. Automatic feeding. The machine finds use in large butcher's or sausage-maker's shops. It works independently or in combination with other machines. *MOTOKOV*

19/008
Electric Bowl Meat Cutter,
Model 127

with automatic emptying of the bowl. The machine is intended for large scale production of minced meat. Capacity of the bowl: 200 litres. Hygienic operation. *MOTOKOV*

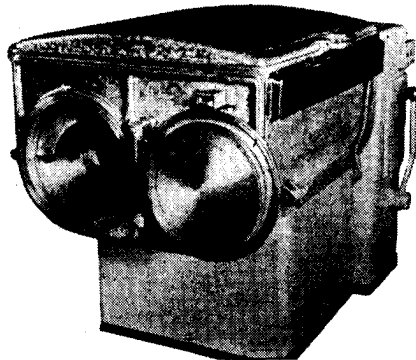
19/009
Vacuum Sausage Filling Machine,
Model 157

for continuous operation. The machine is intended for the filling of all sorts



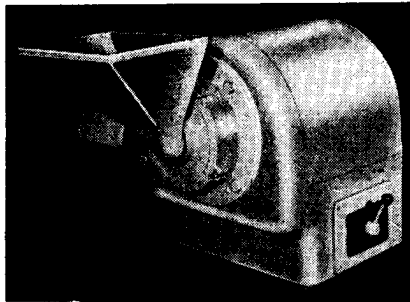
19/009

of sausages. It operates independently or in combination with other machines. The machine improves the quality of the products by 30 p. c. *MOTOKOV*



19/010 19/010
**Automatic Mixing Machine,
Model 143**

The machine which has a capacity of 250 litres, is enclosed in a transparent jar which permits the observation of the working process. The mixed material is automatically discharged by opening the side plug during the rotation of the screw paddles. *MOTOKOV*



19/011 19/011
Disintegrator 131

The machine is used for the production of sausage-meat from fine chopped meat from boiled skins, tough meat and hash for liver sausages and pies, as well as for mincing fish and the preparation of hash for fish-pies. Approximate output: 3000 kg per hour. *MOTOKOV*

19/012
**Meat Mincing Machine,
Model 100 A**

Diameter of cutting head: 82 mm. A spice grinding mill can be fitted to

the projecting end of the worm, and tightened by means of a flange.

MOTOKOV

19/013
Meat Cutter, Model 122 A

Bowl capacity: 45 litres. The machine is suitable for small butcher's shops. The machine is equipped with safety devices. *MOTOKOV*

19/014
Meat Mixer, Model 147

Capacity of the mixing tub: 50 litres. The machine is designed for mixing hash by means of screw paddles. It provides an extremely easy operation, and finds use in small shops. *MOTOKOV*

19/015
Blood Separator, Model ŠKG 03

The machine serves for separating the blood-plasma from blood-corpuscles. Capacity: 300 litres per hour. Weight: 300 kg. Speed of drum: 5800 r. p. m. *STROJEXPORT*

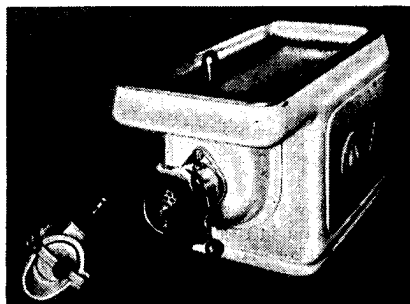
19/016
Milk Tank

Capacity: 500 litres. Diameter: 1210 mm. Height: 1160 mm. 0.25 kW electric motor. About two hours are required for cooling milk 30 °C warm, to a temperature of + 10 °C. *STROJEXPORT*

19/017
**Automatic Milk Weigher,
Model 34-0**

With aluminium tank, divided into two parts of 250 litres each. Capacity: 500 kg. The weigher is sealed to prevent vapour from penetrating its mechanism. *STROJEXPORT*

19/012



19/018
Plate Type Milk and Cream
Pasteurizer, Model PD 1000

Capacity: 10,000 litres per hour, i. e. 8500 litres of milk and 1500 litres of cream. Pasteurizing temperature of milk: 76 °C. Pasteurizing temperature of cream: 95 °C. The heated milk keeps its temperature for 35 seconds.

STROJEXPORT

19/019
Cream Separator, Model ŠMF 5

The machine is intended for cream separation, milk equalisation and purification as well as for the separation of butter-milk and whey. Capacity: 5000 litres per hour. 5.5 kW electric motor. Weight: 586 kg.

STROJEXPORT

19/020
Butter Churn, Model 4 MV 400

The machine is a part of continuous line for the production of butter from biologically ripened cream with a fat content of 38 to 42 p. c. Output: 330 to 430 kg. of butter per hour, according to the fat content of cream.

STROJEXPORT

19/021
Stainless Butter Churn

Capacity: 3000 litres. Weight: 2775 kg.

STROJEXPORT

19/022
Ripening Tank

The tank is designed for cream ripening and tempering prior to churning. Capacity: 3000 l.

19/023
Automatic Forming and Packing
Machine, Model 12 MV

The machine handles butter or vegetable fats. Number of packages per min.: 25 to 28 250 gramme cubes: 400 kg. per hour 125 gramme cubes: 200 kg. per hour.

19/024
Carbonator - Filling Machine

The machine is designed for filling bottles saturated with carbon dioxide

(beer, soda-water, etc.), under pressure. Output: 9000 litres per hour: Input: 2.2 kW. Weight: 2800 kg.

STROJEXPORT

19/025
Battery Vacuum Cistern VAC 40

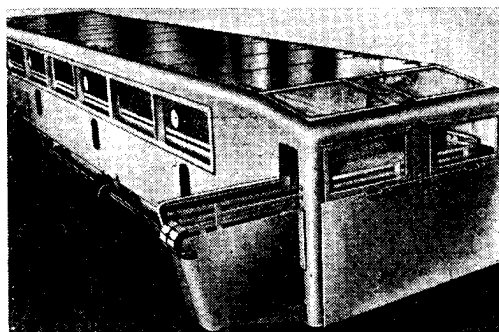
for the transportation of milk. Capacity: 400 litres.

MOTOKOV

19/026
Vacuum Cistern VAC 12

The vacuum cistern is designed for the transportation of milk into the dairy. Capacity: 1250 litres. Weight: 250 kg.

MOTOKOV



19/027

19/027
Spray Cooler for Stewed Fruit
CHL-15

serves for continuous cooling or pasteurizing, or the two processes combined. In the canning industry it is used for cooling stewed fruit after sterilization, while it is employed for pasteurization, cooling or a combination of the two processes in breweries, wine cellars and in cider production. Output: 1500 to 1800 1/1 kg. of stewed fruit bottles per hour, cooled down from 90° C to 30° C above zero.

STROJEXPORT

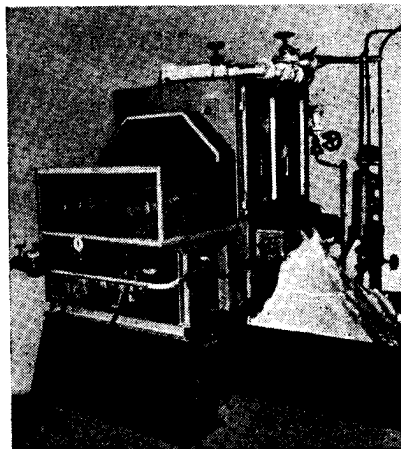
19/028
Electric Three Compartment
Baking Cabinet

MOTOKOV

19/033

Plate Type Constant Freezer

The machine which is based on direct evaporation of ammonia and the forced feed circulation system of the refrigerant, is designed for the production of chilled food and meat in lumps, 25 kg. in weight and 150 mm. in height. Period required for chilling packages: 1½ to 2½ hours according to the kind of goods. Meat: 5 hours. Approximate weight: 4800 kg; weight of meat filling: 900 kg. *MOTOKOV*

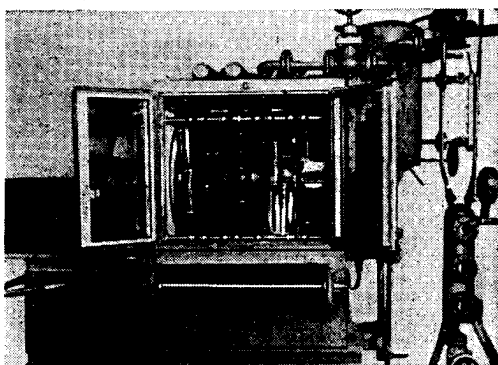


19/035

19/034

Refrigerating Piston Compressor

The compressor is used for compressing the vapours of the refrigerant, i. e. of ammonia (NH₃) or freon 12 (CCL₂F₂). Speed: 960 r. p. m. *MOTOKOV*



19/035

Crushed Ice Plant

Maximum capacity: 270 kg. per hour. The plant is connected to an ammonia or freon refrigerating circuit (generating set). The briquette-making attachment moulds the crushed ice into briquettes. *MOTOKOV*

19/036

Automatic Multiple Production Parts

used with refrigerating equipment. *MOTOKOV*

19/037

Freon Condensing Units

The units are provided with V series water-cooled condensers, and use freon F 12 as a refrigerant. They are of two- or four-cylinder type, with pistons and enclosed crank case.

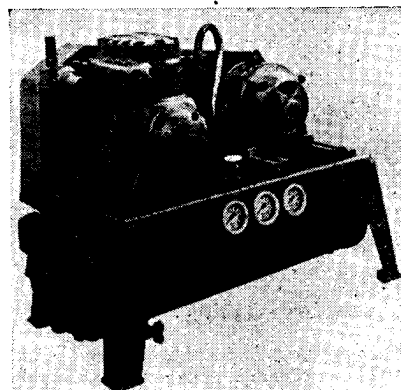
Type	V 421	V 540	V 68	V 7175
Output in kcal p. h	2100	4000	8000	17500
Net weight in kg.	160	270	470	790

MOTOKOV

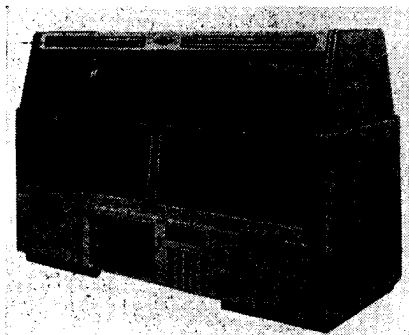
19/038

Refrigerator Show Case for Self-Service CVSd 630

suitable for shops with self-service. Plastics and all modern design features find a wide field of application in this type of refrigerator. Useful capacity: 630 litres. Size: 2.5 sq.metres.



19/037

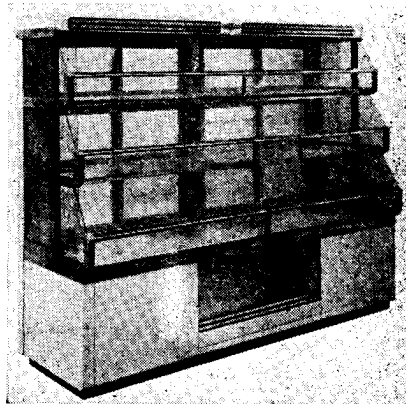


Wall-Mounted Refrigerator Show Case for Self-Service MVS 900

for use in self-service shops. Capacity of refrigerator crates: 900 litres. Size: 3 sq. metres. *MOTOKOV*

Double Refrigerator Show Case for Self-Service MVSD

for use in shops with chilled meat, fish, poultry, vegetables, fruit, etc. Show case temperature: 5 to 10 °C below zero. Temperature in the bottom part: 15 to 18 °C below zero. Useful capacity: 480 litres. Size: 1.5 sq. metre. *MOTOKOV*



19/039 Refrigerating and Chilling Trailer PM 34

for long distance road-transportation of chilled goods. The temperature which can be adjusted to 20 °C below zero (at a maximum ambient temperature of 27 °C), is automatically maintained with an accuracy of plus minus 2 °C. Cooling space capacity: 34 cu. metres, 17.9 sq. metres. Approximate weight: 19,400 kg. *MOTOKOV*

19/040 Automatic Electric Refrigerator SA 900

Plastics enter in the construction of this refrigerator of entirely new design. Capacity: 900 litres. Cooling space: 1.8 sq. metre. *MOTOKOV*

19/041 Display Counter CS 630

This new type of display counter finds use in shops, kitchens, etc. It is used for cooling all kinds of food and beverages. Outer dimensions: Length 2160 mm, width 850 mm, height 920 mm. Capacity: 490 litres. Cooling space: 3 sq. metres. *MOTOKOV*

19/042 Hermetic Condensing Unit, M Series

This air-cooled (air-compressor cooled) unit uses freon F 12 as refrigerant. In combination with the respective refrigerator and regulating instruments, it is used with automatic electric refrigerators. It is suitable for refrigerator cases, smaller cooling chambers, walk-in coolers and special refrigeration equipment. Maximum capacity: 2000 kcal. per hour. *MOTOKOV*

19/043 Walk-in Cooler

MOTOKOV

19/044 Universal Mixing and Kneading Machine, Type "S 2"

The machine mixes and kneads dough and whisks eggs, cream, mashed potatoes, etc. It is suitable for kitchens catering for 500 people. By means of auxiliary attachments it is possible to use the machine for coffee or poppy-seed grinding, meat mincing, cutting, grating or straining. *MOTOKOV*

19/045

Potato Peeling Machine KSP 180

The machine eliminates the hardest kitchen job and provides important economies in manpower. It is also suitable for handling various vegetables, such as carrots, turnips, cellery and other tuberous produce. This type of machine has a capacity of 180 kg, per hour. The KSP 400 type machine has a capacity of 400 kg. per hour. *MOTOKOV*

19/046

"Calex" Electric Compressor Refrigerator of 100 or 200 litre capacity

MOTOKOV

19/047

ELEKTROSVIT Absorption Refrigerator

The refrigerator is provided with an absorption diffusion refrigerating set with continuous circulation. A mixture of ammonia, water and hydrogen is used as refrigerant. At a low temperature ammonia evaporates in the evaporator, absorbing heat and cooling down the surroundings. *MOTOKOV*

19/049

Thermo-Case TB 20

The thermo-case is an independent portable unit, designed for transporting or storing of transfusion blood at a temperature of 2 up to 4 °C above zero, and maximum ambient temperature of 25 °C above zero. With icebags completely filled with fractional or crushed ice, the temperature is preserved for 48 hours. *MOTOKOV*

19/050

Mobile Crushed Ice Plant

This ice plant of entirely new design is intended to produce large quantities of crushed ice. The ice is used in food, meat, chemical, pharmaceutical and textile industries. Output: 250 to 270 kg. of crushed ice per hour. *MOTOKOV*

19/051

Hypothermic Apparatus

The apparatus is designed to reduce the patient's temperature by means of an automatic or hand controlled freon cooling equipment. At a lower body



temperature the most difficult operations of the heart or other organs can be carried out. *MOTOKOV*

19/052

Evaporative Condenser Unit

The unit is used for condensing the vapours of the refrigerant (freon 12) where water is not available. It provides a considerable economy in cooling water. Capacity: 17,000 kcal, per hour. *MOTOKOV*

19/053

Oil Pressure Control Device

The device interrupts the operation of the refrigerating ammonia compressor when the overpressure of the lubricant drops below a given limit. *MOTOKOV*

19/055

Pressure Regulating Valve

The pressure regulating valve is inserted in the inlet ammonia piping in order to maintain a constant evaporating pressure in the evaporator. When the pressure rises, the valve opens, when the pressure drops, the valve closes. Weight: 7.5 kg. *MOTOKOV*

19/056
Suction Line Valve

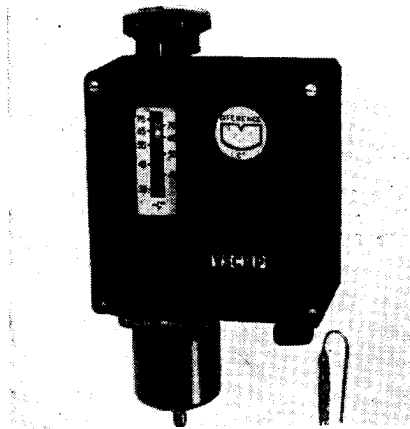
for the control of suction lines of large evaporators. Weight 4.3 kg. *MOTOKOV*

19/057
Automatic Hydraulic Valve

The valve controls the water supply of a refrigerating condenser in relation to condensing pressure. Pressure range: 5 to 12 atm. Weight: 2.50 kg. *MOTOKOV*

19/058
Overpressure Control Valve,
Type PJA

The valve is designed to avoid overpressure in the high-pressure part of the ammonia refrigeration equipment. The operation is automatic. *MOTOKOV*



19/059-061
Room Thermostat,
Type PT 1, PT 2, PT 3

The room thermostat is intended for automatic switching on or off of electrical equipment in relation to the ambient temperature. Weight: 1.45 kg. *MOTOKOV*

19/062
Relief Valve JV 1 and JVA 1

The valve protects the refrigerating equipment against overpressure. When

the pressure rises, the valve opens and the refrigerant is released. Working pressure: 16 or 20 atm. *MOTOKOV*

19/063
Fitche's Measuring Apparatus

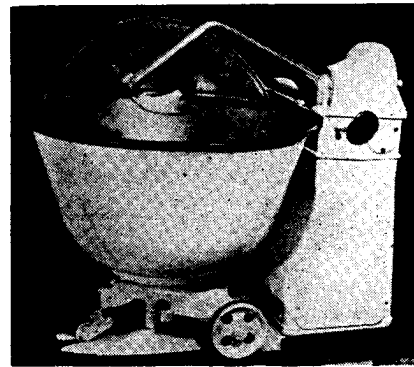
for measuring thermal conductivity under unstable conditions. Weight: 60 kg. *MOTOKOV*

19/064
Diagrams and Pictures

of exported sugar mills. *TECHNOEXPORT*

19/065
Designs of Flour Mills
TECHNOEXPORT

19/066
Model of a Grain Silo
TECHNOEXPORT

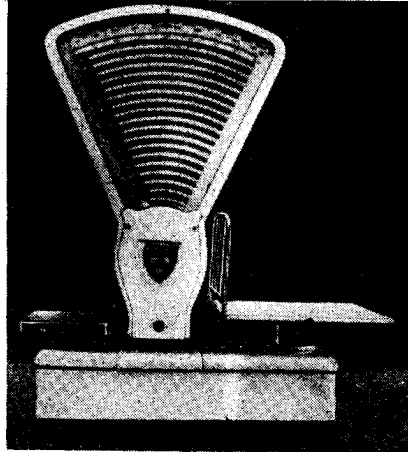


19/067
Line for the Production of Pastry

made of wheat-flour, such as buns, rolls, etc. The working process is automatic from the delivery of the risen dough into the hopper of the t-605 dough toughening machine down to the forming process. Output: 7200 pces. *STROJEXPORT*

19/068
Bridge Scale 14-2

Capacity: 200 kg. *MOTOKOV*



19/074
Walk-in Refrigerator

Capacity: 6 cu. metres. Useful working space: 2.7 sq. metres. Quantity of stored goods: 600 kg. *MOTOKOV*

19/082
Vibratory Separator for Precleaning

The separator is used for precleaning grain in granaries. Output: 32 tons of wheat or rye per hour. Width of screens: 1250 mm. *STROJEXPORT*

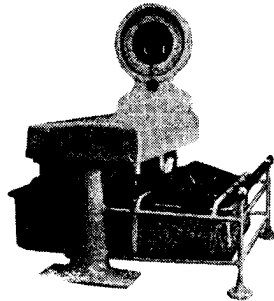
19/083
Cross Beating Mill SU 4

The high-speed cross beating mill is used for milling cereals, sugar, salt, saltpetre, wood-powder and various chemicals. Diameter of milling chamber: 600 mm. *STROJEXPORT*

19/069
Bench Scale 13-4

19/069

Two scales. Capacity: 20 kg. *MOTOKOV*



19/070

19/070
Bridge Scale 14-0

Round dial. The scale is put on the table. Capacity: 30 or 50 kg. *MOTOKOV*

19/072
Model of a Three-Floor Bakery
STROJEXPORT

19/073
Continuous Pastry Forming Machine

The machine is a part of the pastry production line. *STROJEXPORT*

19/085
Three-Cylinder Gutcasing Cleaning Machine, Model MH 191

The machine is designed for cleaning beef casings. Capacity: 40 to 60 casings per hour. Weight: 392 kg. *MOTOKOV*

19/086
Seven-Cylinder Gutcasing Cleaning Machine, Model MV-195

The machine cleans rapidly and precisely fine pork and mutton casings. All impurities, slime and grease are thoroughly removed, and the casings leave the machine thin and transparent. Capacity: 700 pork casings per hour. 70 mutton casings per hour. Weight: 573 kg. *MOTOKOV*

19/087
Band Type Machine for the Removal of Cherry Stems

The machine is designed for removing the stems of both fresh and tinned cherries. Output: 7 q. per hour. Weight 550 kg. *MOTOKOV*

19/088
Bun Forming Machine PK 100

Maximum capacity: 10,000 buns per hour. Size of buns: 53 or 80 gr. Weight: 85 kg. *MOTOKOV*

19/089
Baking Plate Scraper

The machine is designed for cleaning and oiling baking plates with folded up edges. Maximum capacity: 1500 plates per hour. Width of plates (any length will do): 475 mm. Consumption of edible oil: 1 litre per hour. Weight: 520 kg. *MOTOKOV*

19/090
Vegetable Slicer R 55

The machine serves for cutting hard vegetables into cubicles, strips or slices. Maximum capacity: 1500 kg. per hour. Weight: 263 kg. *MOTOKOV*

19/091
Self-Priming Pump

The pump is designed for handling milk and milk products. All parts of the pump proper are tinned both inside and outside. Capacity: 10 000 litres per hour. Weight: 65 kg. *MOTOKOV*

19/092
Automatic Weighing, Measuring and Registering Machine JOKA A-1

The machine is used for weighing or measuring of loose and granulated materials, liquids, etc. as well as for the control of machines which are technologically dependent on the weighed

or measured quantities. The measured quantity can be charged in one lot or by instalments. *MOTOKOV*

19/093
VULKAN Mixer, Type 430

The machine is used for mixing dough especially in large bakeries. Capacity of kneading-trough: 430 litres. Weight: 1700 kg. *MOTOKOV*

19/094
Flour Sifting Machine
KPM - I/3000

The machine is used in large installations for flour sifting, loosening, aerating and clod breaking as well as for removing all impurities. Weight: 450 kg. Output: 3000 kg. per hour. *MOTOKOV*

19/095
Small Flour Sifting Machine
MPZ-I-300/2500

The machine is used for flour loosening, sifting and aerating or clod breaking. Output: 2500 kg. per hour. Weight: 550 kg. Weight with charged bin: 850 kg. *MOTOKOV*

19/105
Milk Bottle Filling Apparatus

for smaller dairies. Fills five bottles at the same time when the foot pedal is depressed.

Washing Device
for cheese boards.

MOTOKOV

There are servicing depots with the greatest possible variety of spare parts in more than 120 states on the continent as well as overseas which is a guarantee of safe riding.

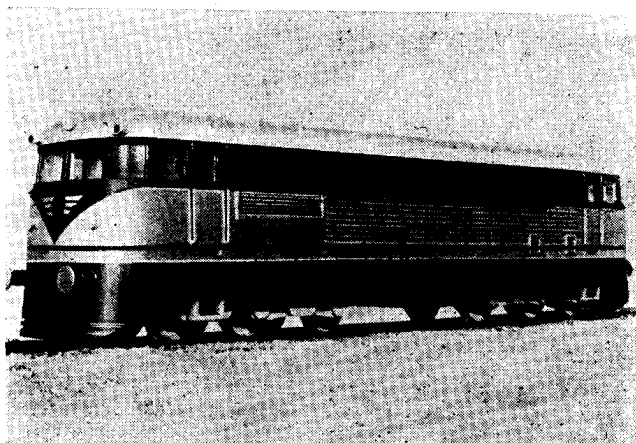
20 LOCOMOTIVES AND TRUCKS

20/001

Diesel-Hydraulic Locomotive

Output 400 H. P. 1435 CN 400. This Diesel locomotive is especially designed for shunting service in industrial plants. It can also be used on local lines for shunting and transportation of medium-heavy goods trains. Axle arrangement: 0-6-0. Gauge: 1435 mm. (4'8 $\frac{1}{2}$ "'). Continuous rating: 410 H. P. at 1360 r. p. m. Maximum permissible speed: 25 km./hr. Weight of the locomotive in full trim: 48 tons.

STROJEXPORT



20/002

Diesel-Electric Locomotive Co-Co, Output 1650 H. P. - T 698.0

The locomotive is intended for passenger express service at a maximum speed of 120 km./hr. or, with a modified ratio, for goods service at a speed up to 85 km./hr. The Co-Co locomotive has six driving axles arranged in two bogies without pinions. All axles are driving axles. Axle arrangement: C-Co. Gauge: 1435-1676 mm. Continuous tractive force for passenger service: 13,850 kg. Continuous tractive force for goods service: 19,500 kg. Maximum rating: 1650 H. P. Weight of the locomotive in full trim: 105 tons.

STROJEXPORT

20/003

Electric Locomotive 21E for Open Pits

The locomotive is designed for open pits; it consists of three parts, each part forming an independent power unit. Electropneumatic control. A special device permits the locomotive to be driven at a very low speed, and ensures a continuous loading of trucks under excavators. Axle arrangement: Bo+Bo+Bo. Overhead wire voltage: 1500 V d. c. Total output: 1560 kW. Maximum speed: 65 km./hr. tractive force: 45 tons. Total length of the locomotive: 21,000 mm. Minimum radius curvature: 60 metres. Overall weight: 150 tons. STROJEXPORT

20/004

Diesel-Electric Locomotive, Bo-Bo Type, Output 750 H. P. - T 435.0

The locomotive is intended for light and medium light shunting or goods service up to a maximum speed of 60 km./hr. It is suitable for passenger service if the heating of coaches from the locomotive is not required. It is provided with a device for train traction by means of two coupled locomotives from a single driver's post. Only two locomotives which are identical in design can be coupled. Axle arrangement: Bo-Bo. Gauge: 1435 mm. (4'8¹/₂"') and 1678 mm (5'6"). Rating: 750 H. P. Tractive force at an adhesion coefficient of 0.25 : 14,000 kg. Weight of the locomotive in full trim: 59 tons. STROJEXPORT

20/005

Four-Cylinder Vertical High-Speed Steam Engine 4 SP 260

The engine especially finds use in the food-industry, textile and paper mills, breweries, flax scouring mills and other plants where steam is used for heating purposes. Number of cylinders: 4. Maximum pressure of incoming steam with exhaust: 14 atm. Output at maximum pressure: 400 H. P. Speed: 600 r. p. m. Weight: 5.3 tons. STROJEXPORT

20/006

Eight-Wheel Express Coach without Compartment, Type Bai

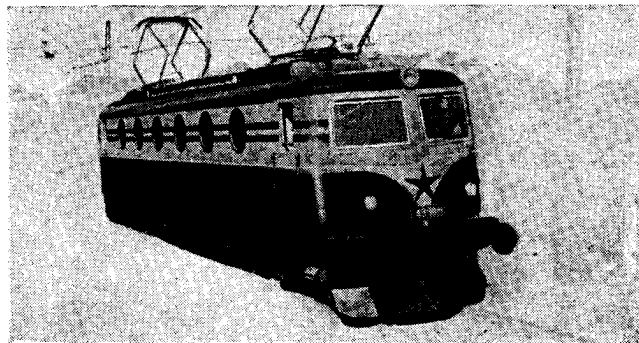
The coach has fine, upholstered seats which can be revolved and tilted to meet the passengers' requirements. All seats are located in one compartment. The enlarged windows are firmly in-built, and air-circulation is ensured by forced ventilation. The coach is heated with hot water, supplied from a special electrical or steam exchanger. The appearance of the coach is enhanced by fluorescent lighting and wall panelling in pastel shades. Length of coach over buffers: 23,500 mm. Number of seats: 64. Weight with bogies with guides: about 36.5 tons. Weight with bogies without guides: about 35 tons. STROJEXPORT

20/008

Eight-Wheel Hopper Balast Car Vsa

An open car with truck floor. Loose materials are discharged through flaps which are provided in the floor. Loading capacity: 57 tons. Length: 14,000 mm. STROJEXPORT

20/018



20/009

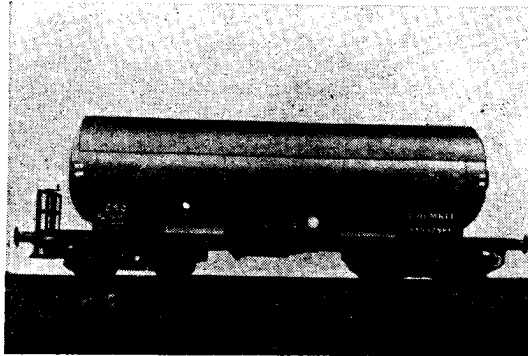
Eight-Wheel Hopper Balast Car for Egypt

The car is used for transporting gravel, limestone, ores or sand. Loading capacity: 40 tons. Length 11,006 mm. *STROJEXPORT*

20/010

Eight-Wheel Universal Covered Truck, Type 1-420.1

The truck is especially designed for the transportation of grain or legumes; therefore, discharge chutes, provided with removable flaps, are built in the underframe. The truck is filled through charging flaps in the two side-walls and charging holes in the roof. *STROJEXPORT*

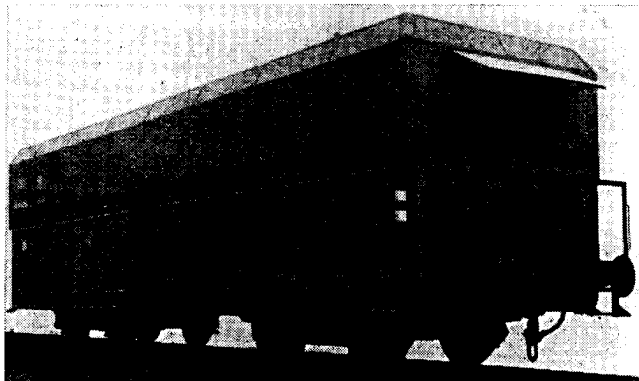


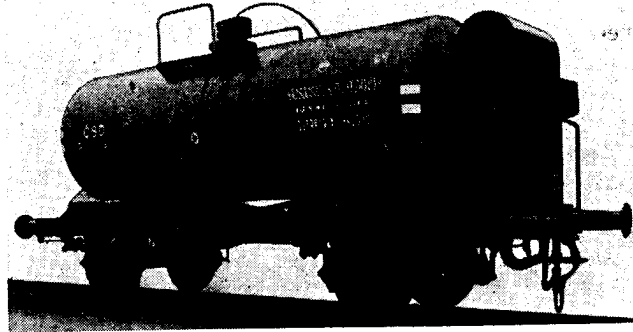
20/011

20/011

Eight-Wheel Tank Wagon, Capacity 560 hectolitres

This eight-wheel wagon of Ra series with a 560 hectolitre barrel, tested for 25 atm., is intended for the transportation of liquid ammonia and propane-butane. Working pressure at a maximum temperature of 40 °C 16 atm. The filling and discharging is carried out by means of valves, located on the bottom of the barrel where the dearating equipment is also provided. *STROJEXPORT*





20/012

20/012
Four-Wheel Tank Wagon, Capacity 240 hectolitres

A four-wheel tank wagon of R series with a barrel and a capacity of 240 hectolitres. The wagon is used for the transportation of thick oils and tars. For this purpose it is provided with a discharging device, 150 mm. in dia., cover heated drain pipes and a closing valve. The inside of the drum is equipped with heating elements having a heating surface of 21 sq. metres. *STROJEXPORT*

20/013
Auxiliary DAKO D and DAKO CV Triple Valve

20/013

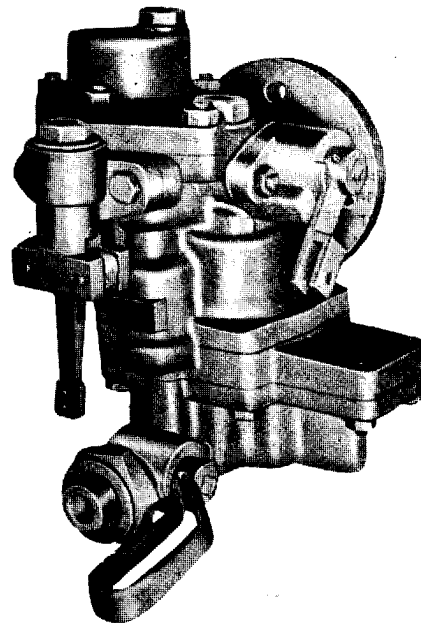
The DAKO CV triple valve is used with brakes of railway coaches and trucks. It meets the conditions of the International Railway Union (UIC) prescribed for air brakes. Together with the DAKO D auxiliary valve, the CV triple valve is suitable for braking loaded trucks. *STROJEXPORT*

20/014
DAKO Brake Model Diamond Bogie

A high transmission speed of DAKO brakes of 288 metres per sec. ensures a smooth braking of the train. The brake which is almost inexhaustible, is characterized with an excellent resistance to overcharging. Its maintenance is easy. *STROJEXPORT*

20/015
New Type Bogie for Railway Trucks

A bogie of welded construction for eight-wheel railway trucks. Suitable for speeds of 100 to 120 km/hr. Weight of bogie: 5000 kg. *STROJEXPORT*



20/016

Model of an Eight-Wheel Motor Car of M 230.4 Series

The car which is designed for local passenger traffic, is 18.5 metres long, 28 tons in weight and has 56 seats with a luggage compartment. Maximum speed 70 km/hr. It is driven by a horizontal, air-cooled, twelve-cylinder Tatra 1 930 KF Diesel-engine. The car is heated with hot air, and lighted by means of fluorescent tubes. Vans can be coupled to the motor car which are identical in design.

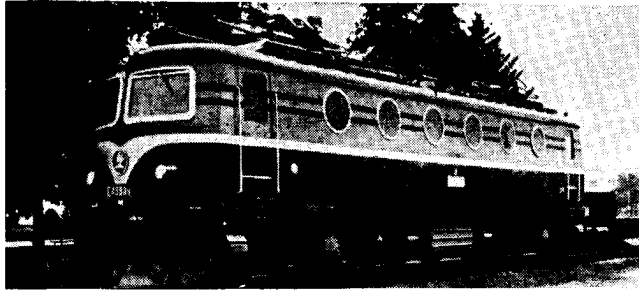
STROJEXPORT

20/017

Model of a Suburban Electric Four Car Unit

The unit is used for rapid passenger service on electrified lines in the vicinity of large cities. Length of the unit: 93 metres. Weight: 174 tons. Seating capacity: 308 seats and two luggage compartments. Maximum speed: 100 km/hr. Output: 8 traction motors, 1200 kW, overhead wire voltage of 3000 V. Each car is provided with a driving bogie, located at the same end as a pantograph.

STROJEXPORT



20/018

Electric Universal Overhead Wire Locomotive of E 499.0 Series

This locomotive is used with all kinds of trains. It has two bogies, and its own weight provides the adhesion weight. Electro-pneumatic control for a voltage of 48 V, pressure of 3.5 atm. Axle arrangement: Bo-Bo. Voltage: 3000 V. Maximum permissible speed: 120 km/hr. Output: 2344 kW per hour. Length of the locomotive: 15,800 mm. Adhesion weight: 80 tons.

STROJEXPORT

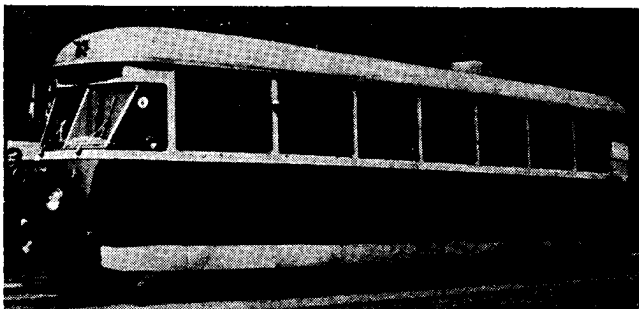
20/018

20/019

Trolley-Bus, Type 9Tr

This four-wheel trolley-bus has a self-supporting three-door body with transversal seats. The new bodywork is smaller in weight as compared with the old type. Panoramic front and rear windows. Foreign excitation electric brake. Normal carrying capacity: 70 persons, maximum 100 persons. Maximum speed: 60 km./hr., standard 110 kW four-pole motor.

STROJEXPORT



21 SHIPS

21/001 Shaft Guide

It consists of the propeller, pipe, propeller shaft, bushings and propeller cover. The shaft guide is made of POLDI EV 5 steel and non-ferrous metals.

TECHNOEXPORT

21/002 Capstan

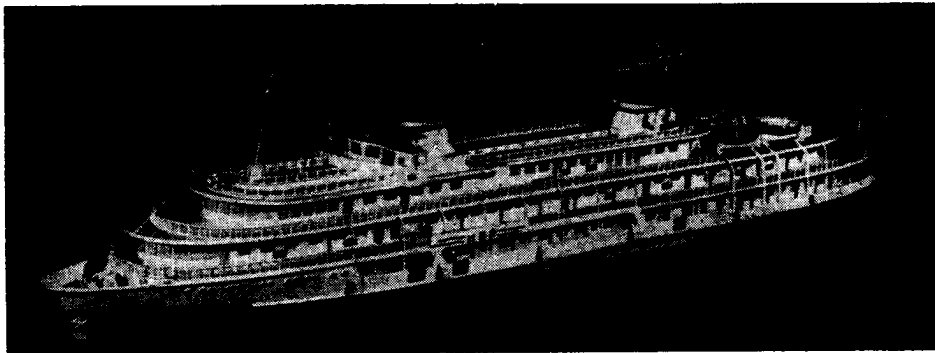
Electric drive with electro-magnetic or hand braking. *TECHNOEXPORT*

21/003

New Three-Deck, Three-Propeller 1200 H. P. Passenger Motor-Boat

This passenger motor-boat is intended for transportation of passengers and goods on rivers and lakes. Steel, allwelded construction. The motor-boat is driven by three motors which are provided with turbo-blowers. Fully automatic operation. Maximum length: 96.51 metres. Maximum width: 14.98 metres. Approximate speed: 25 km./hr. Number of passengers: 421. Crew: 70. Tonnage: 1468 tons.

TECHNOEXPORT



21/003

21/004 Model of MOL 1200 Engine-Room *TECHNOEXPORT*

21/006 Panels, Photographs, Reliefs *TECHNOEXPORT*

From the periodical

CZECHOSLOVAK FOREIGN TRADE

you can learn about the products you have not seen at the exhibitions. The periodical appears three-times a year in six languages and contains information on the export products of all branches of the Czechoslovak industry.

22 PUMPS

22/001
Centrifugal Boiler Feed Pump
SIGMA H-VN-2/x-HD

designed for supplying boilers with treated hot or cold water, condensate repumping in boiler economy as well as for handling other liquids at higher temperatures and pressures.

STROJEXPORT

22/002
SIGMA H-VA-125/III-FT

designed for feeding water to steam boilers up to a temperature of 210 °C, condensate pumping in boiler economy, etc. Capacity: 1700 litres per minute. Total manometric delivery head: 290 metres.

STROJEXPORT

22/003
Steam Piston Pump
J 250/175/150 in dia.

used for supplying boilers with water, as a mine pump and for pumping water up to a temperature of 120 °C. Capacity: 500 litres per minute.

STROJEXPORT

22/004
SIGMA SLS-8

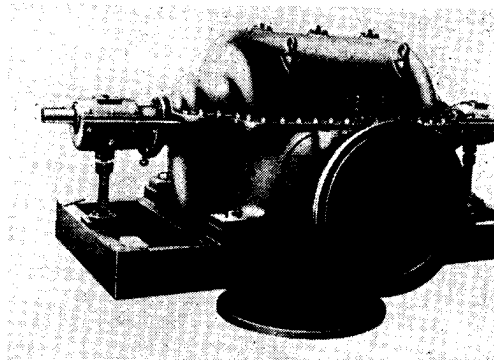
This vertical diagonal pump for dry sumps is used for handling clean or slightly polluted water, for cooling systems as well as for repumping stations of waste and industrial waters, etc. Capacity: 60,000 to 102,000 litres per min. Total volumetric delivery head: 10 to 20 metres. Dia. of neck: 800 mm.

STROJEXPORT

22/005
SIGMA SF-800

This spiral casing horizontally split centrifugal pump with two parallel impellers and inlets on both sides, is used as a cooling pump for steam turbines in large thermal power plants. Capacity: up to 120,000 litres per min. Total volumetric delivery head: up to 22 metres.

STROJEXPORT



22/006
SIGMA K-800

22/006

spiral casing horizontally split centrifugal pump is suitable for condensers of large steam turbines. Capacity: 85,000 litres per min. Total volumetric delivery head: 25 metres.

STROJEXPORT

22/007
SIGMA TH-VG-7/I-K

hot water circulation pump for working temperatures up to 180 °C is suitable for heating plants, industrial or long distance heating systems, oil and other industries. Capacity: 400 cu. metres per hour. Total, volumetric delivery head: 33 metres. Speed: 1450 r. p. m.

STROJEXPORT

22/008
SIGMA 65/65-F/2

is a high-pressure hot water circulation centrifugal pump, designed for hot water circulation in a system of boiler tubes, or for long distance heating with water up to 260 °C. Capacity: 28 cu. m. per hour. Total volumetric delivery head: 40 metres of w. col. Maximum working pressure: 52 kg/sq. cm.

STROJEXPORT

22/009
SIGMA DDP-14/60

This high-pressure double plunger horizontal dosing pump is intended for pumping and dosing of small quantities of liquids (chemicals). Maximum capacity: 57 litres per min. Total volumetric delivery head: 100 atm.

STROJEXPORT

22/010

Single-Plunger Vertical Dosing

Pump of SDEP 16/30 Series

designed for dosing various chemicals and non-saturated solution of salts of a maximum viscosity of 2 to 3^oE up to a pressure of 25 atm and a temperature of 100^oC under dustproof conditions. Maximum capacity: 32 litres per min. Total volumetric delivery head: 25 atm. STROJEXPORT

22/011

SIGMA CCn-80/XII-SP

High-pressure centrifugal boiler feed pump up to a temperature of 200^oC. Capacity: 45 tons per hour. Total volumetric delivery head: 68 atm. STROJEXPORT

22/013

SIGMA NBB-250

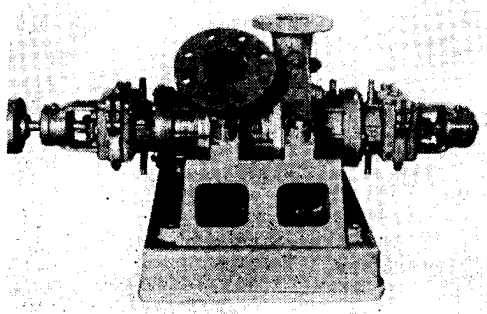
A single-stage spiral casing dredger type centrifugal pump for hydraulic conveyance or extraction of hard, loose materials (dross, slag, ash, gravel, sand, etc.), for the deslagging equipment in power plants or heating plants as well as for conveying sludge in ore dressing plants, aluminium plants, cement factories, etc. Capacity: 5000 to 11,000 litres per min. Total volumetric delivery head: 60 to 48 metres. STROJEXPORT

22/014

SIGMA TT-VL-3/II-D

A double-stage centrifugal pump designed for handling hot oils up to a temperature of 300^oC and volatile liquids in the chemical industry. Capacity: 250 litres per min. Total volumetric delivery head: 12 metres. STROJEXPORT

22/014



22/014a

SIGMA TT-VN-6/II

A double-stage centrifugal pump designed for handling hot oils up to a temperature of 300^oC and volatile liquids in the chemical industry. Capacity: 1700 litres per min. Total volumetric delivery head: 56 metres. STROJEXPORT

22/015

SIGMA P-ZUV-4

A medium-pressure rotary gear pump designed for supplying oils, crude oil, petroleum and other viscous liquids to the lubricating systems of various machines and equipment, suitable for oil hydraulic drives, etc. Capacity: 23 litres per min. Working pressure: 20 atm. Speed: 920 r. p. m. STROJEXPORT

22/016

SIGMA HT 16/8

A high-pressure oil pump, designed for handling oil where high pressures are required for a small quantity of the pumped liquid. Maximum capacity: 10.4 litres per min. Total volumetric delivery head 20—140 atm. STROJEXPORT

22/017

SIGMA BVA-5/X+X-OHD

A heavy-duty double-casing mine pump with a common driving motor in the centre for the main high-pressure pumping stations in bituminous coal and ore mines. Capacity: 800 to 1400 litres per min. Total volumetric delivery head: 630 to 560 metres. STROJEXPORT

22/018

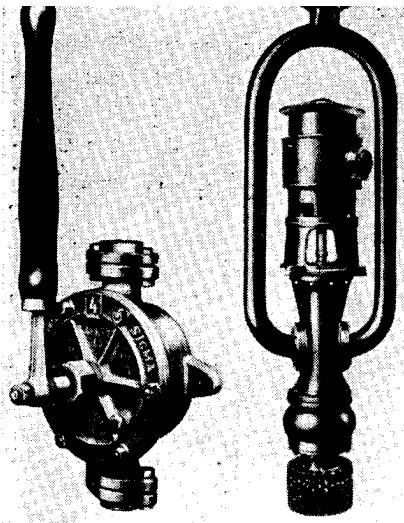
SIGMA VR-VA-2a/VII

A vertical sinking pumping set with a pump enclosed in a steel frame, suitable for dewatering flooded mines or deepening shafts characterized with a considerable fluctuating water level. Capacity: 250 litres per min. Total volumetric delivery head: 95 metres. STROJEXPORT

22/019

SIGMA VP-VN-2/VI

A vertical sinking pumping set with a pump designed for drainage operations, dewatering shafts or boring wells on building sites. Capacity: 350 litres per min. Total volumetric delivery head: 108 metres. STROJEXPORT



50 to 175 litres per min. Total volumetric delivery head: 45—8 metres.
STROJEXPORT

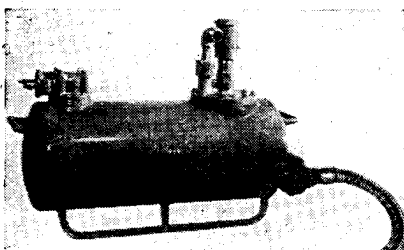
22/021
RUBINA Pneumatic Pump

This portable centrifugal spiral casing pump is designed to handle mine water. Capacity: 250 litres per min. Total volumetric delivery head: 6—50 atm.
STROJEXPORT

22/022
SIGMA - 2-FSK Diaphragm Pump

This portable pump is designed for handling mine water. Capacity: 400 litres per min. Total volumetric delivery head: 5 atm.
STROJEXPORT

22/022



22/023-024
SIGMA KDD and IDD Duplex Horizontal Piston Pumps

Steam or compressed air operated pumps without crank mechanism. They are used for feeding steam boilers and conveying clean, industrial or mine water and oils.
STROJEXPORT

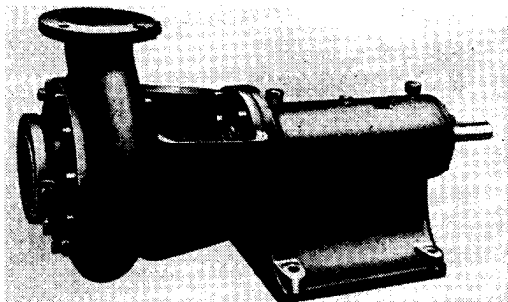
22/026
SIGMA LPV 4"×6"

a heavy duty pump designed to operate under difficult operating conditions, especially used as a drilling pump for deepening crude oil bore-holes and other bore-holes.
STROJEXPORT

22/020

22/027
SIGMA OL-20 Pump

suitable for handling oils and other viscous liquids up to a temperature of 80 °C.
STROJEXPORT



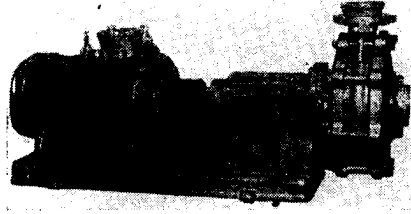
22/028
SIGMA CH

A single-stage spiral casing centrifugal pump, designed for priming acids and lyes in the chemical industry. Pumps of this type are made in cast-iron, cast-steel, bronze, lead, stainless steel or fersilite as well as rubber-lined and of ceramic materials according to the kind of liquid pumped. Capacity: 60 to 4500 litres per min. Total volumetric delivery head: 7 to 75 metres.
STROJEXPORT

22/020
SIGMA NORA

A portable pneumatic pump for compressed air drive, without rotating parts, with automatic plunger adjustment, suitable for mines. Capacity:

22/028



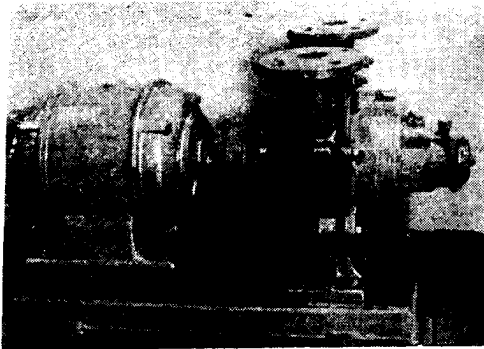
22/029

22/029
SIGMA BUC-6a-FESI
Single-Stage Centrifugal Pump

without gland, for handling acids and lyes as well as other liquids used in the chemical industry. Capacity: 300 to 1200 litres per min. Delivery Head: 14 to 30 metres. *STROJEXPORT*

22/030
SIGMA W-CH-4

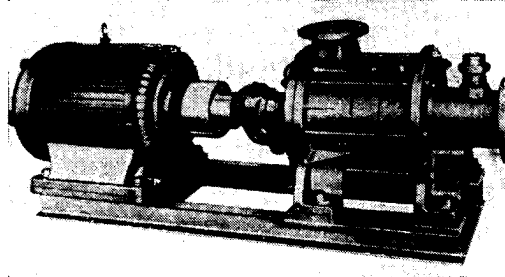
A single-stage spiral casing centrifugal pump for acids and lyes, used in the chemical industry. Capacity: 100 to 500 litres per min. Total volumetric delivery head: 52—10 metres. *STROJEXPORT*



22/031

22/031
SIGMA RV-448

A single-stage water ring rotary air-pump for priming air in enclosed spaces, with a final vacuum of 0.025 atm. *STROJEXPORT*



22/031a

22/031a
SIGMA HK-7/IV-S

An efficient four-stage condensation pump for priming condensate from the steam turbine condensation. Capacity: 1300 to 2500 litres per min. Total volumetric delivery head: 180—152 metres. Speed: 1460 r. p. m. *STROJEXPORT*

22/032
SIGMA SLP-20/II

Horizontal, piston, single- or double-cylinder type; used for vacuum equipment or as compressors for an over-pressure up to 1 atm. *STROJEXPORT*

22/033
SIGMA RLP-45/73

A water ring rotary air pump, used for priming gases and vapours from enclosed spaces with a final vacuum of 0.05 atm. and for producing a vacuum in various under-pressure systems in the food, chemical or metallurgical industries. Capacity: 27 cu.metres per hour at a vacuum of 0.1 atm. *STROJEXPORT*

22/034
SIGMA RJ 275/200/320 Horizontal
Duplex Double Cylinder Pump
with Ball Valves

designed for handling clean or impure liquids, oils, emulsions etc. of a maximum viscosity of 250^oE and a maximum temperature of 350^oC. *STROJEXPORT*

22/035
Single Cylinder Piston Steam
Pump E 150/130/150

for handling oil products and other liquids of a viscosity up to 60 °E and maximum temperature of 350 °C. Maximum capacity: 60 litres per min.

STROJEXPORT

22/036
High-Pressure Horizontal Plunger
Pump SIGMA III-38/100 CHTP

for handling chemicals and other liquids of lower viscosity without mechanical admixtures. Maximum temperature of liquids: 90 °C. Capacity: 86 litres per min.

STROJEXPORT

22/037
Horizontal Three-Plunger Pump
MTP-III-118/120

for handling lyes up to a temperature of 60 °C. Capacity: 54 to 600 litres per min. Total volumetric delivery head: 50 to 85 atm.

STROJEXPORT

22/038
Diaphragm Pump SIGMA
25-CHM 200/50 Gum

A single-acting horizontal pump with crank mechanism. Suitable for priming solutions of galvanic baths, for filtration, etc.

STROJEXPORT

22/039
Dosing Pump of SIGMA DEP
Series 40/30

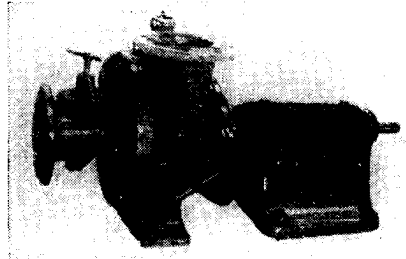
A single-acting single-plunger dosing pump with crank mechanism and adjustable length of plunger lift within 0 to 100 p. c. with the pump at a standstill. It delivers and doses various chemicals and non-saturated solutions of salts.

STROJEXPORT

22/040
SIGMA NZ-5a

A small single-acting spiral casing centrifugal sludge pump suitable for handling impure liquids with solids, as well as sludge, sewage and waste water on building sites, in sewerage systems, mines, paper mills, etc. Capacity: 100 to 2800 litres per min. Total volumetric delivery head: 16,5 metres.

STROJEXPORT



22/041

22/041
SIGMA OZ-10

Single-stage spiral casing non-clogging centrifugal pump, designed for heavy duties. It is especially suitable for handling impure liquids with solids, sludge, sewage, refuse and waste water in the sewerage systems of large cities, industrial establishments, and also finds use in the building trade and sugar mills for conveying beet slices with water, etc. Capacity: 6,000—14,000 litres per min. Total volumetric delivery head: 28—20 metres.

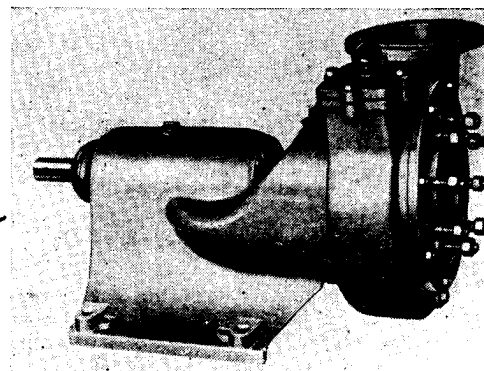
STROJEXPORT

22/042
SIGMA DK 100
Rotary Volumetric Pump

designed for handling viscous liquids up to a temperature of 80 °C, such as oil, tars, varnishes, fats, soap, glue, treacle, molasses, mash, fruit juices, etc. Capacity: 385 litres per min.

STROJEXPORT

22/040



22/043
SIGMA ZCS

A gear pump for priming liquid polyamide, finds use with rayon spinning machines where a high dosing accuracy is required. Capacity: 0.6 to 2,4 cu. cm per rev. *STROJEXPORT*

22/043a
SIGMA ZCV

A gear pump, designed for use with spinning machines for the production of rayon, corduroy fibres, etc. where a high dosing accuracy is required. Capacity: 0.6 to 36 cu. cm. *STROJEXPORT*

22/044
SIGMA ZPK

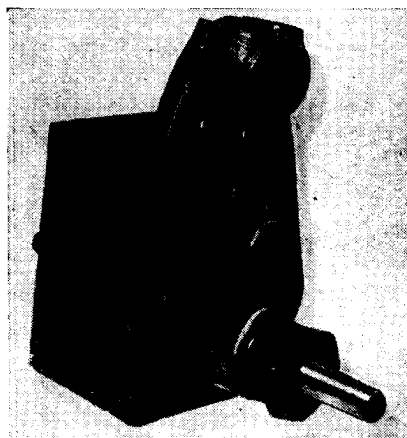
A low-pressure rotary gear pump, designed for handling oils and other lubricants. It finds use with lubricating and cooling systems of machine tools, combustion engines, etc. as well as with hydraulic oil drives of various machines and equipment. Capacity: 1 to 72 litres per min. Total volumetric delivery head: 10—6 atm. *STROJEXPORT*

22/044a
SIGMA ZPG

A low pressure rotary gear pump, designed for handling thin or thick lubricants, such as oils, grease, treacle, lyes, etc. It also finds use with lubricating and cooling systems of various machines, etc. Capacity: 45 to 1000 litres per min. Total volumetric delivery head: up to 6 atm. *STROJEXPORT*

22/044b
SIGMA ZUN

A high-pressure precision spur-gear pump, designed for handling all kinds of oils. It finds use with lubricating systems, hydraulic oil drives, oil firing, and oil economy in general. Capacity: 5 to 1500 litres per min. Total volumetric delivery head: 40—16 atm. *STROJEXPORT*



22/043

22/045
SIGMA VA-7/IV-DA

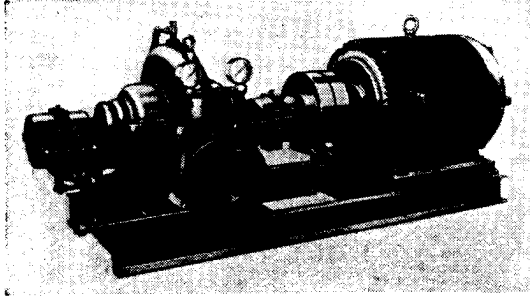
A single- or multi-stage centrifugal pump for delivery heads up to 450 metres. Suitable for water-works, mines and other industries up to a temperature of 80 °C of the pumped water. Capacity: up to 3000—4000 litres per min. Total volumetric delivery head: up to 160—450 metres. *STROJEXPORT*

22/046
SIGMA NO-5a

A single-stage spiral casing centrifugal pump on frame, designed for handling clean and slightly impure water up to a temperature of 80 °C. Suitable for water-works, irrigation, heating plants for condensate priming and various industries. Capacity: up to 6,000 litres per min. Total volumetric delivery head: up to 18—13 metres. *STROJEXPORT*

22/047
SIGMA 125 AVBV

A vertical centrifugal pump, suitable for deep and narrow boreholes. The modern design considerably reduces the weight of the set, facilitates assembly and enables various types of drive. The pump is used for general water systems, irrigation, industrial purposes, etc. Capacity: 1300 litres per min. Total volumetric delivery head: 55 metres. Speed: 1750 r. p. m. *STROJEXPORT*



22/048
SIGMA Q-150

22/048

A centrifugal, medium pressure, spiral, horizontally split casing with double-entry impeller. Capacity: 5000 litres per min. Total volumetric delivery head: 43 metres. *STROJEXPORT*

22/048a
SIGMA Q-350

A centrifugal medium-pressure spiral and horizontally split casing pump with double-entry impeller. Capacity: 14 000—22 000 litres per min. Total volumetric delivery head: 90—82 metres. *STROJEXPORT*

22/049
NAUTILA Submersible Pump

with special water-proof electric motors of an output up to 60 H. P., for deep wells and bore holes up to 150 metres deep and 145 mm. in diameter. Suitable for pumping clean or industrial water for water-works, agricultural, industrial or household purposes. Capacity: 20 to 3,000 litres per min. Total volumetric delivery head: 15 to 155 metres. *STROJEXPORT*

22/050
SIGMA 100-HFAW

A vertical centrifugal sludge pump for dry pits. This single-stage spiral casing pump is used in repumping and sewerage stations, industry and building trade for handling sludge, sewage and waste water. Capacity: 2000 litres per min. Total volumetric delivery head: 13 metres. *STROJEXPORT*

22/051
SIGMA 100-HFBW

A vertical single-stage spiral casing centrifugal pump. Wet pits. The pump is designed for handling sludge, sewage and waste water in public sewerage system, in industry, building trade, etc. Capacity: 2000 litres per min. Total volumetric delivery head: 13 metres. *STROJEXPORT*

22/052
Model of a Filtering Station
STROJEXPORT

22/053
REVOLT-SUPERIOR Rainer With Spray-Line

finds use in horticulture. The oscillator and spray lines with spray nozzles are especially suitable for young or tender plants, flowers, early crops, etc. and are the nearest approach to rain. Dia. of spray-line: 2" up to 60 metres in length or 2 1/2" for a length of 60 to 100 metres. Range: 7.5 + 7.5 metres. Weight: 29 kg. Length: 100 m. *STROJEXPORT*

High-Pressure Rainer ZV-2000
intended for irrigation of large areas. Mobile, drawn and driven by the ZETOR-35 SUPER tractor. Covered area: 0.5 hectare per hour. Water consumption: 100—2000 litres per min. *STROJEXPORT*

22/054
REVOLTIN Garden Sprinkler

A small-type rotary sprinkler. Covered area: 254 to 804 sq.metres. Range: 9 to 14 metres. Weight: 8.20 kg.

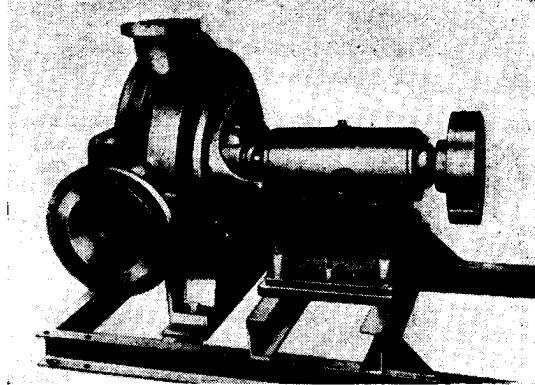
ROT-REVOLT RR-1-P, RR-2-P, RR-3-P, RR-4-P long range field rotary rainers are used in horticulture and for spraying field crops with clean or river water.

22/055
Low-Pressure Irrigation Pumps
of various type. Capacity: 600 to 10,000 litres per min. Total volumetric delivery head: 6 to 20 metres. *STROJEXPORT*

22/056

SIGMA NC-150

A single-stage centrifugal pump with frame, used for conveying cement sludge in cement factories. The removable casing cover ensures easy checking of the impeller and cleaning of the pump. Capacity: 400 to 1200 litres per min. Total volumetric delivery head: 66 to 61 metres. *STROJEXPORT*

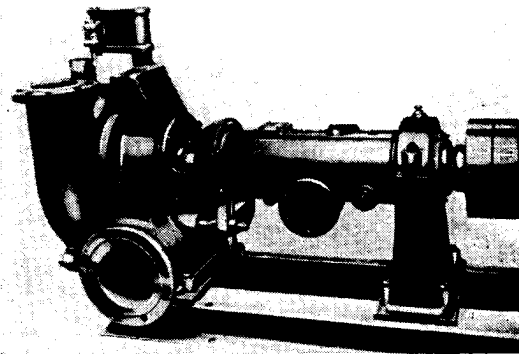


22/056

22/057

SIGMA NC-150

A single-stage centrifugal pump with frame, used for conveying cement sludge in cement factories. The tiltable casing cover enables easy checking of the impeller and cleaning of the pump. Capacity: 1000 to 3500 litres per min. Total volumetric delivery head: 44—43 metres. *STROJEXPORT*



22/057

22/058

Pumping Sets for Contractors

STROJEXPORT

22/059

High-Pressure Plunger Pump

SIGMA R/6

horizontal, double-pressure, six-plunger type for the delivery of clean liquids up to a temperature of 80 °C. Maximum capacity: 18—95 litres per min. *STROJEXPORT*

22/060

Double-Pressure Radial Plunger Pump RTP 25/16/10

for hydraulic purposes, for driving presses and similar equipment where two various pressures and two supplied quantities are required in operation the volume of which cannot be changed and depends on the speed. Designed for bearing oil. Capacity: 32—50 litres per min. *STROJEXPORT*

22/061

High-Pressure Piston Pump of RR Series

designed for handling clean liquids without mechanical admixtures up to a temperature of 80 °C. The pumps are intended to operate under normal, i. e. dust-proof working conditions, free from harmful gases and vapours, sheltered from atmospheric influences.

22/062

Hand Pump NP-225

with low stand, used for pumping clean or industrial water from wells, 7 metres deep. Maximum capacity: 40 litres per min.

STANDARD Hand Pump

with high stand for pumping clean or industrial water from wells, up to 29 metres deep. Maximum capacity: 37 litres per min.

DURAL Hand Pump

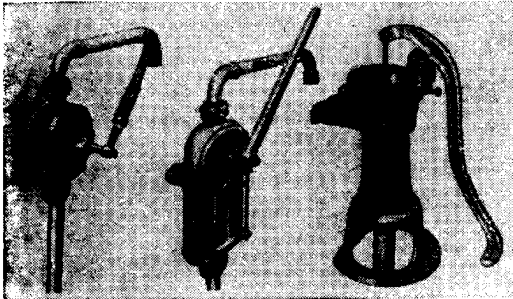
with stand for pumping clean or industrial water by hand or taking water at the outlet for its delivery to distant places. Suitable for wells up to 30 metres deep. Maximum capacity: 42 litres per min. *STROJEXPORT*

22/063
LILA-75 Double-Piston Suction and Pressure Pump

used for pumping water in houses and farms from wells up to 7 metres deep. Maximum capacity: 40 litres per min.
STROJEXPORT

22/064
MOSTAR-90z Single-Cylinder Double-Acting Hand Pump

used in households for drawing water from wells, 6 metres deep. Capacity: 65 litres per min. The MOSTAR 90 Z single-cylinder double-acting hand pump is mounted on a single-wheel barrow.
STROJEXPORT



22/065
ORIENT Pitcher-Spout Pump

with low stand for pumping water from shallow wells up to 5 metres in depth. Maximum capacity: 40 litres per min.
STROJEXPORT

22/066
Wing Pumps

suitable for handling liquid fuels such as petrol, benzol, alcohol, crude oil, petroleum, hot or cold water, etc. Capacity: 11.5—68.5 litres per min.
STROJEXPORT

22/067
RAKETA 185 Hand Piston Pump

for handling liquid manure, waste water, sludge, etc. without heavy admixtures. Maximum capacity: 75 litres.
STROJEXPORT

22/068
EPOCHAL H Horizontal Centrifugal Sludge Pump

for pits 1 to 5 mm. deep and a delivery head of 6 to 8 metres. Maximum capacity: 600 litres per min.

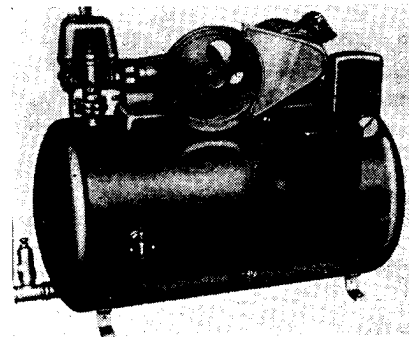
The EPOCHAL-V vertical centrifugal sludge pump finds use in agriculture for pumping industrial water and liquid manure. Maximum capacity: 50—250 litres.
STROJEXPORT

22/069
SIGVERTA 40 Portable Vertical Close-Coupled Multi-Stage Centrifugal Pump

suitable for domestic water supply and garden irrigation. Maximum suction lift for handling cold water: 6.5 metres of w. column. Maximum capacity: 60—90 litres per min.
STROJEXPORT

22/070
DARLING MIKRO Water Supply System

designed for use in houses, hotels, farms, etc. Delivery head: 10 metres. Tank capacity: 150 litres.
STROJEXPORT



22/071
DARLING MOSTARET

automatic water supply system with a tank of 150 litre capacity. Guaranteed daily water supply: 15 hectolitres. Maximum suction head: 6.5 metres. Maximum outlet above tank: 10 metres.
STROJEXPORT

22/071

22/072
DARLING NAUTILA-JUBILA

automatic water supply system with a tank of 150 or 300 litre capacity, for wells and bore holes up to 25 metres in depth. Maximum daily water supply: 60 hectolitres. Minimum diameter of well (bore hole): 200 mm. Head: 10 metres. STROJEXPORT

22/073
DARLING MILOR

automatic water supply system with 300 litre tank and suction equipment for wells up to 25 metres deep. Maximum daily water supply: 45 hectolitres. Minimum diameter of well (bore hole): 180 mm. Head: 18 metres. STROJEXPORT

22/074
DARLING KONTA Water Supply System

supplies water to households, hotels, farms, etc. Head: 18 metres. Tank capacity: 300 litres. STROJEXPORT

22/075
DARLING SUPERIOR Water Supply System

Head: 18 metres. Tank capacity: 500 litres. Tank working pressure: 4 atm. STROJEXPORT

22/076
Model of an Irrigation Station
STROJEXPORT

22/077
Kerbside Pump

Reading from both sides. Automatic pump switching on and off. Instant reverting system. Maximum capacity of pump: 50 litres per min. Maximum suction lift: 6 metres of w. col. STROJEXPORT

22/078
Kerbside Pump with Computer

with measuring and pumping mono-blocks. Same output as with preceding

type. Counters: reverting unit counter, computer, sum total computer and counter, volume counter in litres. STROJEXPORT

22/079
Oilmix Kerbside Pump

for two-stroke engines, with computer. Counters: petrol counter, oil computer, sum total oilmix computer, sum total petrol, oil and money counters. STROJEXPORT

22/080
Ammonia Rotary Flow-Meter L600 C 64

designed for use in chemical plants. Capacity: 600 litres per min. STROJEXPORT

22/081
Mobile Pumping and Measuring Group

for wine, with PD 50 litre bronze pump and L 300 bronze flow-meter. Capacity: 160 litres per min. STROJEXPORT

22/082
Rotary Flow-Meter L 4000

used for liquid fuels. Maximum capacity: 4000 litres per min. STROJEXPORT

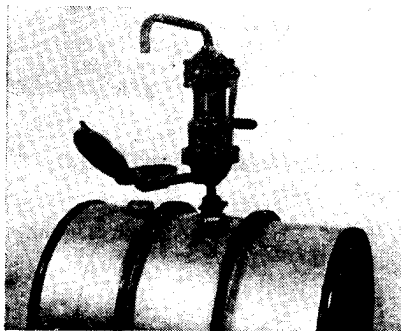
22/077



22/083
Motormeter

A rotary flow-meter for small quantities of liquid fuels, and the like. Capacity: 20 litres per hour.

STROJEXPORT



22/084
Mobile Oileconom Pump

22/084

for filling cans with lubricating oils at a rate of 0.5 litre per rev. Tank capacity: 120 litres.

STROJEXPORT

22/085
Oil Piston Hand Pump

an oileconom for filling cans with lubricating oils at a rate of 0.5 litre per rev.

STROJEXPORT

22/087
Measuring Group with L 600 Flow-Meter

for use with liquid fuels and viscous liquids. Tank type. Maximum capacity: 600 litres per min.

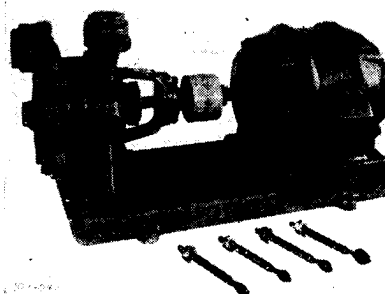
Pumping Set with Gear Pump ZUS 80

for handling viscous materials, such as varnishes, asphalt, etc. Capacity: 100 to 630 litres per min.

STROJEXPORT

22/088
Pump A1 32/I-K

for pumping clean water. Capacity: 30 to 80 litres per min.

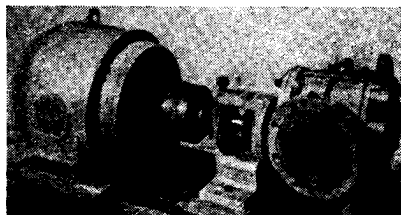


22/088

Plunger Switch E 214

for automatic switching on or off the pump, for filling tanks with inflammable liquids, etc.

STROJEXPORT



22/089

22/089
Gear Pump PZu 10

designed for pumping pure viscous liquids such as lubricating oils and grease up to 50 °E. Maximum working temperature: 80 °C. Maximum capacity: 8—11 litres per min.

STROJEXPORT

22/090
Gear Pump PZu 250

designed for pumping pure viscous liquids, oils, etc. up to 300 °E. Maximum working temperature: 80 °C. Maximum capacity: 250 litres per min.

STROJEXPORT

22/091
Mobile Pumping Sets

bronze type, without meter, also with self-priming PD 40 pump. Capacity: 100 litres per min.

STROJEXPORT

MOTOKOV

**Foreign Trade Corporation
for Import and Export of Vehicles
and Light Engineering Products**

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(delivery vans • station wagons • ambulances)
lorries • special cars • buses • trolley buses

Motor-cycles • bicycles • bicycle parts

Electrical and mechanical equipment
for motor vehicles • chains for engines
and industry

Tractors and agricultural machines

Workshop equipment • woodworking machinery •
artisan's handtools

Equipment for large kitchens
and household kitchens

Equipment for foodstuff shops and industry

Tyres • flat and V-belts • storage battery
cabinets • technical accessories of rubber,
plastic and asbestos

Enamel-ware and baths •
enamelled cast iron sanitary equipment

PUBLISHERS OF TECHNICAL LITERATURE

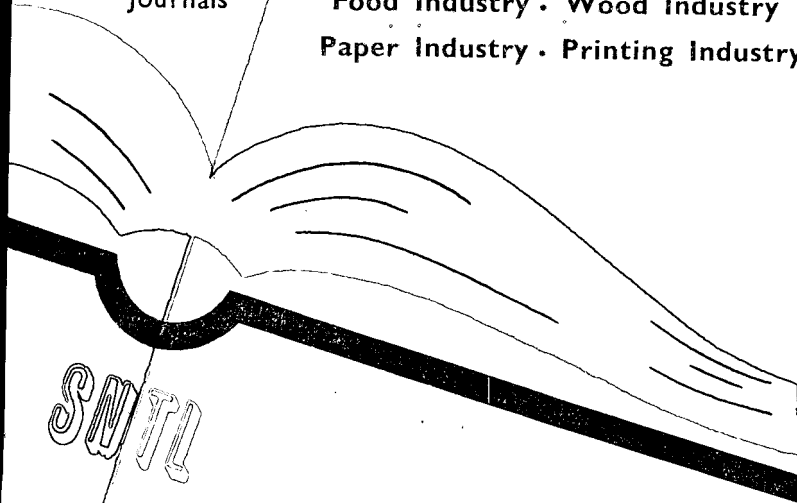
PRAHA 2, SPÁLENÁ 51

publishes

*for the following branches
of Science and Technology:*

- Scientific Monographies .
- Practical Handbooks
- Workshop and Mathematical Tables
- Textbooks for Universities and Technical Colledges
- Scripts of University Lectures
 - Technical Dictionaries
 - Technical Journals

Mathematics . Physics
Geodesy and Cartography
Mining Industry
Metallurgy . Founding*
Mechanical Engineering
Power Supply
Electrical Engineering
Chemistry
Civil Engineering
Water Supply Engineering
Glass and Ceramics
Textile und Leather Industry
Food Industry . Wood Industry
Paper Industry . Printing Industry

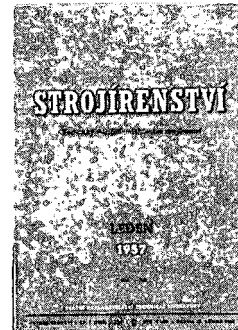


VISIT THE EXHIBITION OF TECHNICAL LITERATURE - PAVILON A (ROTUNDA)

News from the world over published in the technical journals of SNTL

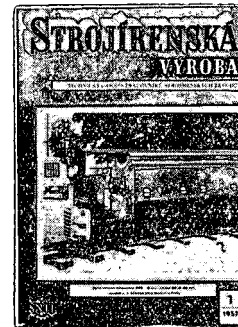
Monthly intended for engineers and technicians engaged in heavy engineering, precision engineering, automotive industry and agricultural machinery. Brings articles on new calculating methods, on results of research and development in factories and research institutes.

STROJIRENSTVÍ
ENGINEERING



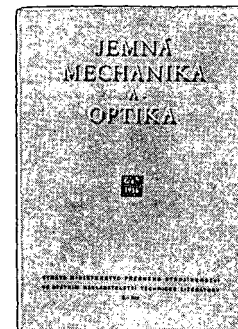
Technical monthly for workers, foremen, and technicians of engineering works. Brings information on machining, shaping, heat treatment, surface finishing, and welding. Attention is paid to new production methods, new machines, and tools.

**STROJIRENSKÁ
VÝROBA**
ENGINEERING
PRODUCTION



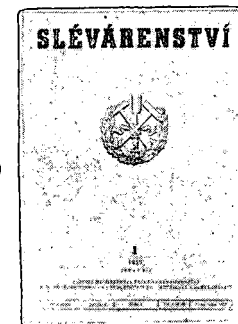
Monthly dealing with design, production methods, utilisation of fine mechanics and optics in technical practice, horology, and measuring technique.

**JEMNÁ MECHANIKA
A OPTIKA**
FINE MECHANICS
AND OPTICS

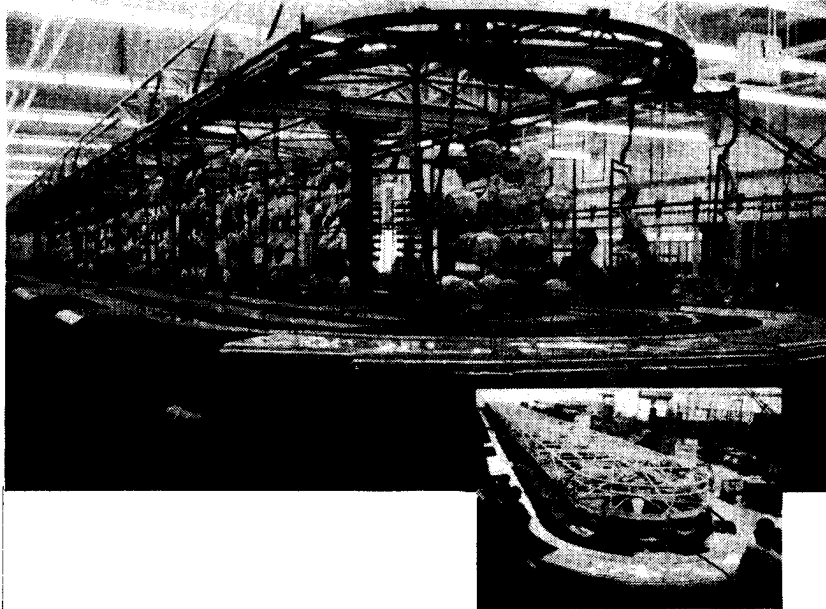


Brings information on progressive working methods at home and abroad. Solves actual problems of foundry operation and helps to widen the all-round usefulness of progressive working methods.

SLÉVÁRENSTVÍ
FOUNDRY INDUSTRY



Inspect these journals at the Exhibition of Technical Literature — Pavilion A (Rotunda).



Blasberg

supplies complete galvanizing equipment for all
types of galvanizing from the simplest to
fully automatic equipment

Anodes

Chemicals

Polishing materials

All galvanizing requisites



Friedr. Blasberg G. m. b. H.

Spezialfabrik für Galvanotechnik
Solingen-Merscheid

Teleprinter: 085 14835 - Telephone: Solingen 13145-48

22/092
One-stage Self-Priming Pump PA 80

designed for handling volatile liquids up to 4°E in viscosity. Maximum working temperature: 40 °C.

STROJEXPORT

22/095
Petrol Piston Hand Pump with Hose

for filling cans with petrol and other inflammable materials. Maximum capacity at 35 double-strokes: 30 litres per min.

STROJEXPORT

22/096
Metal Slit Filters

for purifying oils by removing me-

chanical impurities by means of metal plates. Maximum flow: 100 to 6500 litres per hour.

STROJEXPORT

22/097
Adjustable Repeated Supply Equipment

A rotary L 300 flow-meter with a stop-valve. Adjustable supply range: 9 to 9999 litres.

STROJEXPORT

22/098
Diaphragm Pump, M-360 in dia.

especially designed for injecting cement milk. Also suitable for handling very impure liquids. Supplied air-pressure: 7 atm. Capacity: 0.5 l — 1.3 l per stroke.

STROJEXPORT

23 PRODUCTS OF REFRACTORY MATERIAL

23/001
Refractory Material Products

Raw magnesite, dead burned magnesite, steelmakers grade of various granulation, magnesite powder, magnesite bricks, crucibles and small laboratory furnaces, chrome-magnesite bricks, magnesite-chrome bricks, silica bricks for metallurgy, silica mortar, fireclay bricks, fireclay mortar.

CZECHOSLOVAK CERAMICS

23/002
Standard Electrodes and Special Fluxes

STROJEXPORT

23/003
Steel Cylinders

for compressed liquid gases and carbon dioxide.

STROJEXPORT

23/004
Segment Saws

Ø 910 and Ø 1610 multi-edged cutting tool, rotating around its own axis. The segments can be easily exchanged.

KOVO

23/005
Side Milling Module Cutter

m 24×20° Hobbing cutter m 24×20°. Shank milling head Ø 250 × Mk 100. Durable housing of the cutter and easy exchangeability of tools.

STROJEXPORT

23/006
Aircraft and Motor Cars Crankshafts

FERROMET

23/007
Springs

FERROMET

23/008
Specimens of Poldi Steel Tools

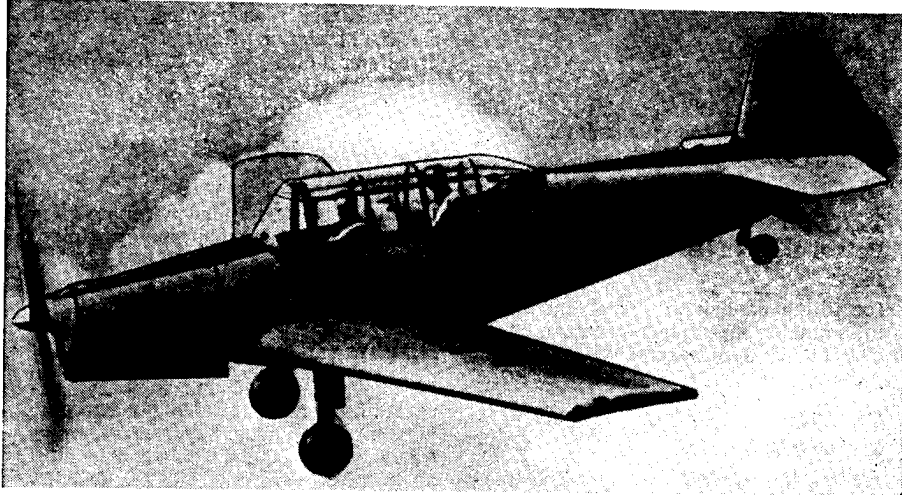
High-speed steel tipped turning tools, tool holders, percussion crown drills, dies.

KOVO

23/009
Sintered Carbides

Sintered carbide tools, diamond tipped tools, ferromagnetic material, thermistors.

FERROMET, KOVO, METALIMEX

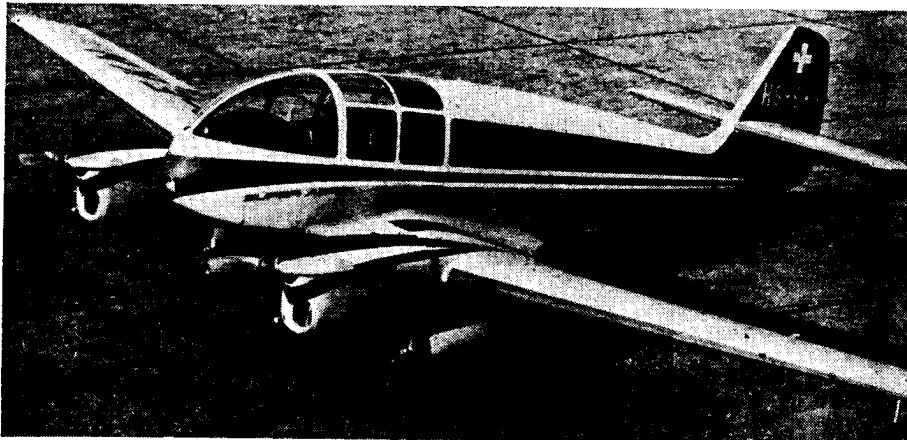


24/001

24 AIRCRAFT EXHIBITION

24/001 Z 226 Trener

All-metal, two-seat, training and fully aerobatic aircraft with installation for towing. Max. speed 200 km/h, cruising speed 175 km/h, range 560 km. *OMNIPOL*



24/002

24/002 Super Aero

Four-seat, two engine sports, training, liaison and aero-taxi aircraft. Max. speed 270 km/h, cruising speed 240 km/h, range 1750 km. *OMNIPOL*

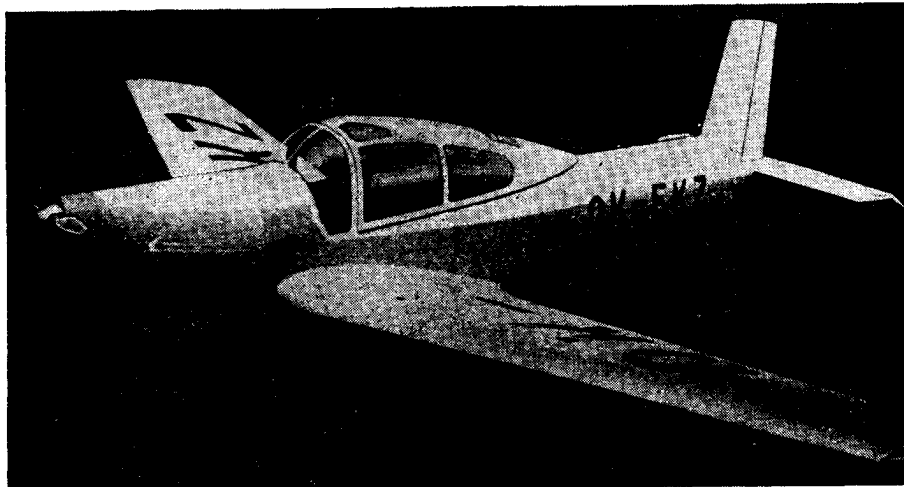


24/003

24/003
L 60 Brigadyr

High-wing, multipurpose (touring and training tug, ambulance and agricultural) aircraft. Max. speed 191 km/h, cruising speed 180 km/h, min. speed 52 km/h.

OMNIPOL



24/004

24/004
LD 40 Meta Sokol

All-metal touring and sports low-wing aircraft for 3—4 occupants. Max. speed 260 km/h, cruising speed 220 km/h, min. speed 88 km/h.

OMNIPOL

155

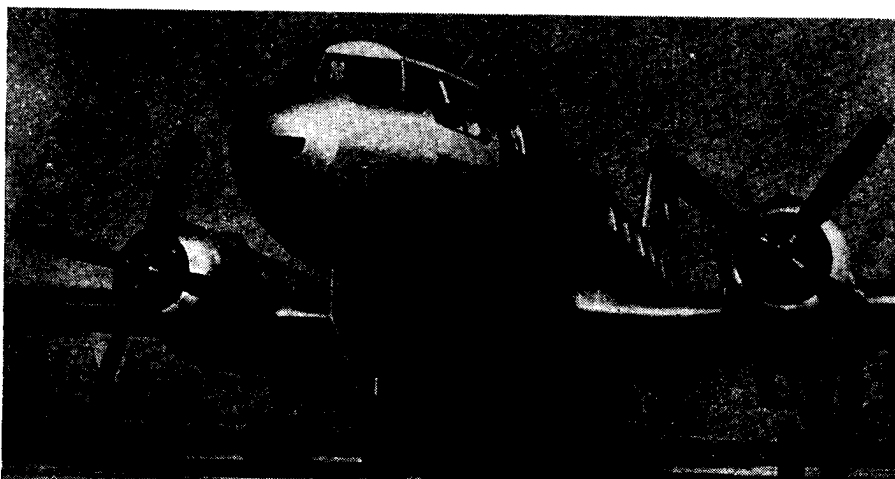


24/005

24/005
Helicopter HC 2 Heli-Baby

Ultra light two-seat helicopter suitable for training helicopter pilots and for fast transport. Max. speed 130 km/h, cruising speed 100 km/h. range 180 km.

OMNIPOL

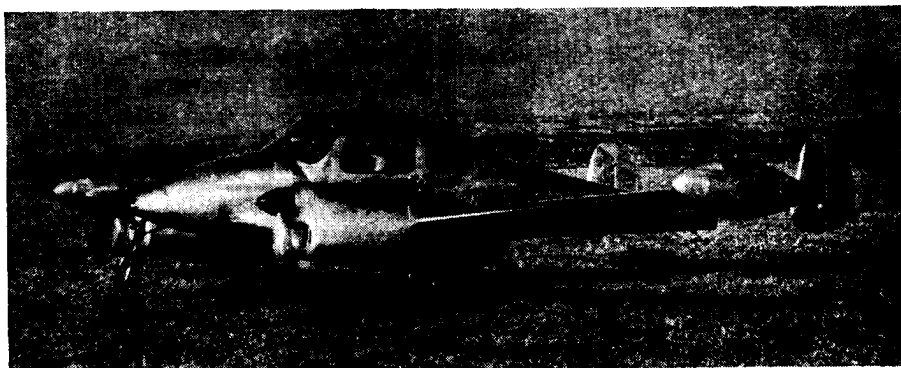


24/006

24/006
Transport Aircraft AVIA-14-22

Two engine short and medium range all metal aircraft for 22 passengers, 5 crew members and freight suitable for operations from small grass aerodromes. Max. speed at 2000 m 416 km/h, cruising speed at 2000 m 320 km/h, min. speed 110 km/h, range at cruising speed 2000 km.

OMNIPOL



24/007
L 200

24/007

Five seat, two engine sports, training, liaison and aerotaxi aircraft. The most up-to-date Czechoslovak transport aircraft. Max. speed 300 km/h, cruising speed 275 km/h, range 1600 km. *OMNIPOL*

24/008
Herkules III

Self-propelled, two-drum winch for launching sailplanes with diesel engine Tatra 108. Engine output 134 HP. *OMNIPOL*

24/009
Electrically driven artificial horizon LUN 1201

for all sorts of aircraft with unlimited freedom of movement about both functional axes. Weight 1200 g. *OMNIPOL*

24/010
Horizon LUN 1202

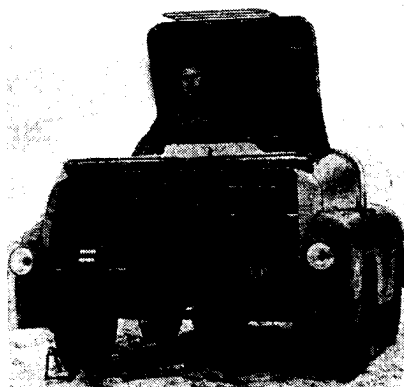
a gyroscopic flight instrument indicating aircraft's altitude relative to the horizontal plane during blind flying. *OMNIPOL*

24/011
Horizon LUN 1207

in principle the same as horizon LUN 1202, but this one is fed directly from a D. C. battery without the use of a convertor. *OMNIPOL*

24/012
Airspeed indicator to 200/400 km/h LUN 1101

an airspeed indicating instrument for slow aircraft. Weight 250 g. *OMNIPOL*



24/013 24/008
Airspeed indicator to 400/800 km/h LUN 1103

for all types of aircraft except the very slow and high-speed aircraft. Weight 250 g. *OMNIPOL*

24/014
"Flot plate" rate of climb indicator to 5 m/sec LUN 1141

a sensitive instrument used for keeping the aircraft flying in a horizontal plane and for the indication of low rates of climb. Weight 480 g. *OMNIPOL*

24/015

**Rate of climb indicator to 15 m/sec
LUN 1145**

for various types of aircraft whose rates of climb are designed not to exceed 15 m/sec. Weight 280 g. *OMNIPOL*

24/016

**Rate of climb indicator to 30 m/sec
LUN 1146**

for aerobatic sailplanes and fast powered aircraft; has the same advantages as the 15 m/sec rate of climb indicator. *OMNIPOL*

24/017

Altimeter to 10 000 m LUN 1121

for sailplanes, helicopters and powered aircraft of all types which do not fly higher than 10 000 m. Weight 650 g. *OMNIPOL*

24/018-019

Pilot head LUN 1151 and LUN 1152

a pick-up of static and dynamic pressure connected to aircraft altimeters and rate of climb indicators. Can be installed in any type of aircraft and functions satisfactorily at all speeds. *OMNIPOL*

24/020

**Test laboratory for testing
aircraft instruments**

a combined set-up of various test facilities for testing horizon's pressure gauges, horizon's converters breathing apparatus, fire detectors-warnings, airspeed indicators, machmeters, altimeters, cabin altimeters, compressor pressure gauges, rate of climb indicators and other aircraft diaphragm-type instruments, facilities for vibration tests are also provided. *OMNIPOL*

24/021

**Portable test equipment
diaphragm-type instruments PM**

installed in a small coffer 460×320×225 mm, this equipment serves for testing altimeters, machmeters, rate of climb indicators and airspeed indicators. Weight 20 kg. *OMNIPOL*

24/022

**Portable equipment for testing
the breathing apparatus PD**

enables checking some parameters of aircraft oxygen apparatus, breathing masks, hose leakages, overpressure and low pressure. It is installed in a bag 460×320×160 mm. Weight 15 kg. *OMNIPOL*

24/023

G-meter

The instrument can be used for simple measurements of variable accelerations; it may also be used for measuring accelerations acting in one sense only. The advantage of this instrument is the instantaneous reading of the recorder acceleration value. *OMNIPOL*

24/024

**Glow-plug engine Vitavan
2.5 and 5 ccm**

OMNIPOL

24/025

Pocket altimeter

OMNIPOL

24/026

Relays

OMNIPOL

24/027

Thermostat T3m, T31, T32

OMNIPOL

24/028

**Direct reading pilot compass
LUN 1222**

is manufactured for northern as well as southern hemispheres according to customers' request. Weight 400 g. *OMNIPOL*

24/029

**Electrically driven turn and bank
indicator LUN 1213**

Gives instantaneous indication of angular speed and of corresponding bank angle when an aircraft executes a level turn. *OMNIPOL*

24/030

Speed indicator

is designed according to the small-size standard of aircraft instruments, 60 in dia, and consists of the indicating system and a synchronous motor. *OMNIPOL*

24/031
Transmitter of the distant-reading speed indicator

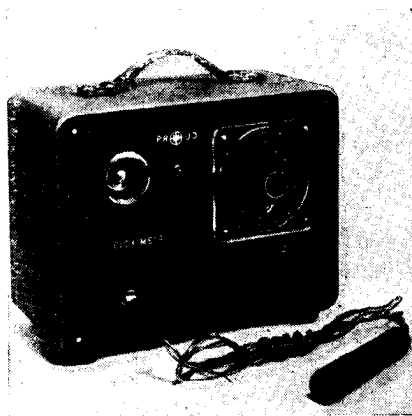
is an A. C. generator, where the current frequency is equal to the number of revolutions of the crankshaft.

OMNIPOL

24/032
Direct-function speed indicator LUN 1301

retains the same accuracy of indication as the distant-reading instruments. It works on the magnetic tachometer principle and has a temperature compensating device.

OMNIPOL



24/032

24/033
ELOX-METER

An instrument enabling a quick check of the anodised layer thickness in series production. It is used on aluminium and its alloys.

MOTOKOV

24/034
Portable stroboscope RS-55

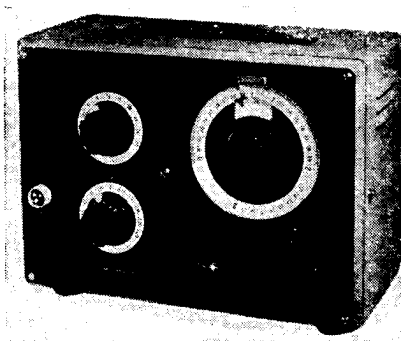
It has two frequency ranges: 200 to 3000 r. p. m. and 1000 to 15000 r. p. m. The shown accuracy between the temperature limits -30°C to $+40^{\circ}\text{C}$. Weight 850 g.

OMNIPOL

24/035
Compensating switch-box for strain-gauge measurements - type PS-1

Enables quick and accurate measurements with various strain-gauges stuck on to the tested detail. One compensating strain-gauge may be used for more points. Weight approx. 5 kg.

OMNIPOL



24/036
Strain-gauge unit SA-1

used for routine strain-gauge measurements. Weight with batteries 12 kg.

OMNIPOL

24/037
Oil and fuel pressure triple indicator - LUN 1521

OMNIPOL

24/038
Fuel pressure transmitter (to 0,5 kg/cm²) - LUN 1551

OMNIPOL

24/039
Oil pressure transmitter (to 10 kg/cm²) - LUN 1561

A set of instruments for remote reading of fuel pressure, oil pressure and oil temperature. The whole set as well as individual instruments can be used after a slight modification for measuring the service parameters of internal combustion engines.

OMNIPOL

24/040
Electrical flap position indicator - LUN 1682

OMNIPOL

24/041
Flap position indicator
transmitter - LUN 1683

The set is manufactured as an independent unit working on D. C. On customer's request may be modified to work in other ranges of angles.

OMNIPOL

24/042
Undercarriage position indicator
LUN 1692

with signal warnings for 2 limiting positions of the undercarriage. To ensure safe operation it has a button enabling a check of bulbs circuit and a damping resistance switch for decreasing the intensity of the illumination.

OMNIPOL

24/043
Fuel content transmitter -
LUN 1613

A float type fuel content transmitter and fuel content indicator; can be modified for various production tests requiring measurements of liquid contents in tanks on small aircraft.

OMNIPOL

24/044
Shunt for VA meter
to 30 A or to 60 A

OMNIPOL

24/045
Capacity decade XCI

for routine laboratory tests. OMNIPOL

24/046
Resistance decade XRI

is with its range, accuracy and permissible loads most suitable for technical measurements and research work in wireless field.

OMNIPOL

24/047
Portable magnetometer Mk 5

OMNIPOL

24/048
Laboratory magnetometer Mk 6

With this instrument can be measured all parameters which can be converted to magnetic field measurements. It can be modified for special tasks according to customers' request.

OMNIPOL

24/049
Electric thermometer ThT

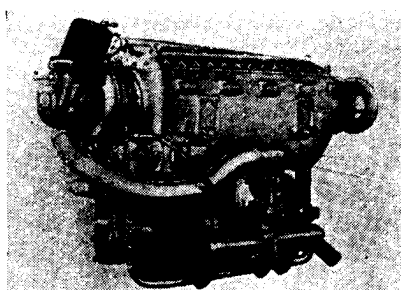
for measuring the temperature of liquids in vessels or ducts (pipes), temperatures of various machine parts when running, and for a whole range of other tests.

OMNIPOL

24/050
Microohmmeter MOds

for measuring very resistance values, especially transitory resistance. A modified voltammeter method is here used. The instrument has four test ranges, the basic one being 300 microohms.

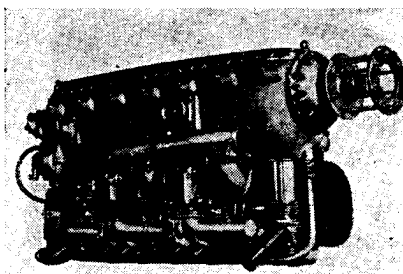
OMNIPOL



24/052
Engine Walter Minor 4-III

24/052

OMNIPOL



24/053
Engine Walter Minor 6-III

24/053

OMNIPOL

24/055
Engine AS 28T for AVIA 14
aircraft, with propeller

OMNIPOL

24/056
Propellers 401 E, 401 EK, 411

OMNIPOL

25 ELECTRICAL COMMUNICATION ENGINEERING

25/001 Radio Transmitters TESLA

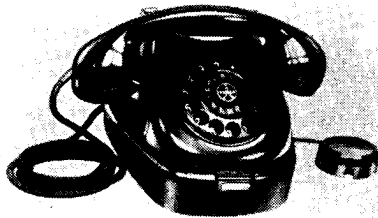
remote-operated and remote-controlled transmitter service. The manufacturing programme comprises also numerous smaller short-wave transmitters as well as transmitters for heavy service conditions on ships, air-ports and railways. Television transmitters of small and medium capacities are intended particularly as local sources of television programs. KOVO

25/101 Portable Communication Receivers and Transmitters

serve for mutual communication. Transmitter and receiver form a single unit providing for easy transport. KOVO

25/111 Industrial TV

presents a new item of the exhibition. Its wide range of industrial applications facilitates rationalization of production. KOVO



25/131 Telephone Apparatus TESLA T 57

for public or branch telephone plants with an automatic telephone exchange. A pushbutton enables back calls or to pass the call to some other branch station. The acoustic back coupling is damped by a special connection. KOVO

25/141 Automatic Telephone Branch Exchange TESLA UTU

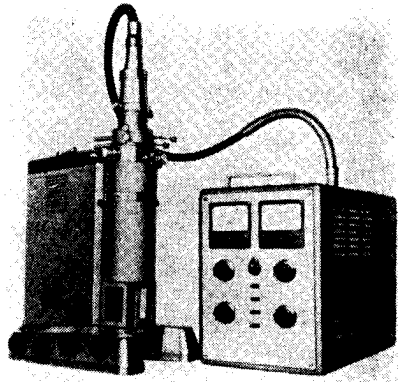
suitable for 40 to any number of calling stations with any number of public or various fully-automatic or semi-automatic trunk lines. KOVO

25/161 Profile Regulator TESLA 510813

with a constant impedance of 200 ohms and a regulating range of 60 db. Flat regulating path. KOVO

25/171 Small Receiving Set TESLA 517831

Case-type amplifier for quality radio reception with three individual symmetric receiving-circuits of 50—60 ohms which can easily be adjusted to 200—800 ohms. Total amplification 92 db. KOVO



25/201 Desk-type Electronic Microscope BS 242

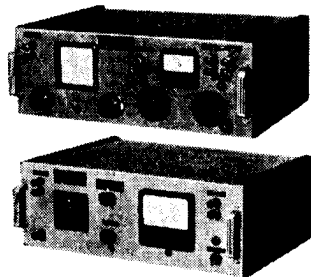
for the examination of various organic and anorganic specimens for the purpose of studying their structure, etc. Observations directly on the screen of the microscope or on the photographs. Maximum enlargement 1 : 30,000. KOVO

25/211
Decadic Counter BM 353

for the numerical qualification of impulses originating from radiation detectors. It serves for determining the intensity of radiation and is adjusted for use with GM-tubes. KOVO

25/221
H. F. Generator 12 XJ 009

is the source of an a. c. voltage of small distortion. It operates on the beat-frequency principle. KOVO



25/231
Level Meter 12 XN 012

for measuring small voltage levels, passive and active fourpoles, taking their frequency curves and serving as zero indicator in bridge measurements. KOVO

25/241
Measuring Set 3 cm

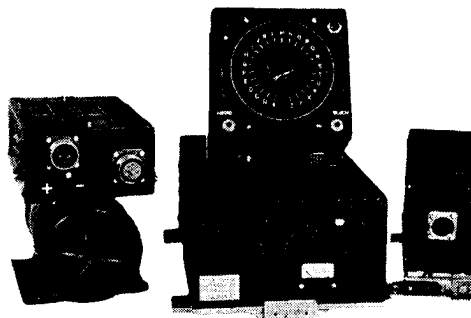
for measuring the conditions on wave-carriers of 3 cm equipments. KOVO

25/261
VKV Railway Despatch Equipment

intended to control the shunting of locomotives in shunting stations (range 10—15 km.). By means of relaying stations this equipment enables the communication between the train dispatcher and the moving locomotives within his district. KOVO

25/271
Automatic Antenna-Change-Over Switch APA

changes automatically two antennae on the entry of the receiver. KOVO



25/281
Aircraft Deck Radio Station VVF 25 K

for communication between the airplane and the ground station in the 118—128 mc band. KOVO

25/282
Automatic Aerial Ground Goniometer VKV

serves to locate aircrafts in the 118 to 132 mc band from the ground station. KOVO

25/291
Directional Communication DT 11

long-distance transmission of television picture signals over a distance of up to 500 km. KOVO

25/292
Automatic Deck Radio-Compass

for the automatic location of radio beacons and radio stations on medium and long waves. KOVO

25/293
Mobile Television Relay MR 12

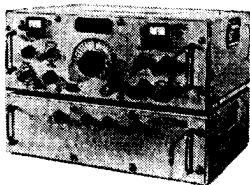
for the transmission of television picture signals from the reporter car or studio into the TV-transmitter. KOVO

25/301
TV-Transmitter TESLA
TV 0.6/FM 0.6

will be exhibited in operation. KOVO

25/302
Short-wave Universal Transmitter
TESLA KUV 3/5

for telegraph service (A1 and F1) is adjusted for radio distance typing. Exit output 5 kW. KOVO



25/311

25/311
VKV Communication Receiver
K 13 A

for reception AM (A1, A2, A3) and FM (F3) in the 24—184 mc band with a high frequency-stability. KOVO

25/312
Keying Unit 3 K 5

suitable for the connection of various recording instruments (Teletypewriter, etc.) to all standard communication receivers. KOVO

25/321
Radio Components

of normal and miniature sizes. KOVO

25/322
Electrolytic Condensers

with screw fixture, suitable for mounting in any position. KOVO

25/323
Ceramic Condensers

of all shapes and materials for the thermal compensation of oscillating and power circuits. KOVO

25/324
Balancing Condensers

with small h. f. losses, air dielectric, easy linear adjustment of the capacity by turning the condenser over more than three times 360°. KOVO

25/325
Potentiometers

layer type, for current applications in radio and amplifying techniques. KOVO

25/331
Equipment for h. f. Telemetering
TESLA VDM 12

suitable to transmit measurements over extreme-high-voltage lines. KOVO

25/332
Equipment for Remote Signaling and Remote-Control
TESLA DSO 1

suitable for application in power-despatch rooms and for remote-control of switching stations and hydro-electric power stations. KOVO

25/333
Single-channel h. f. Telephone for Power Stations TESLA JVT 2

for duplex telephone communication by means of h. f. waves along extreme-high-voltage lines (110 kV, 220 kV). KOVO

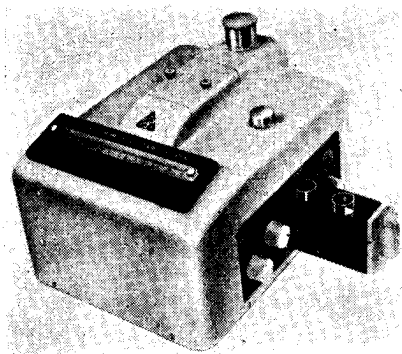
26 LABORATORY INSTRUMENTS

26/001
Photo-electric Colorimeter with Two Photo-electric Cells

Balanced connection for zero setting, fitted with built-in voltage stabilizer.
KOVO

26/002
MINOR Photo-electric Colorimeter with One Photo-electric Cell

Fitted with built-in voltage stabilizer and disc for insertion of five colour filters. The value of the solvent is automatically checked.
KOVO



26/003

26/003
Photo electric Colorimeter with One Photo-electric Cell

An universal instrument fitted with voltage stabilizer and galvanometer for circular and rectangular cells.
KOVO

26/004
MULTOSCOPE III pH Meter

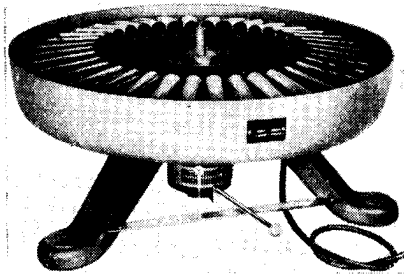
An electronic pH meter directly calibrated in pH units as well as in millivolts. Ranges: 0-8 pH or 0-800 mV, 6-14 pH or 600-1400 mV. Accuracy: 0.1 pH or 10 mV.
KOVO

26/005
MULTOBAT II pH Meter

A portable dial pH meter designed for battery operation. Range. 0-14 pH.
KOVO

26/006
MULTOBAT III pH Meter

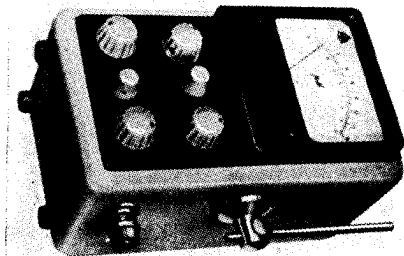
A portable, battery-operated pH meter with built-in power supply. Fitted with temperature compensator, two ranges for measurement of pH units and millivolts. Ranges: 0-8 pH or 0-800 mV, 6-14 pH or 600-1400 mV.
KOVO

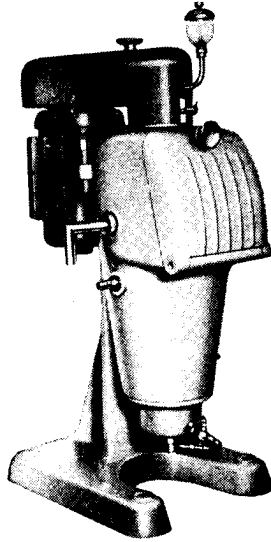


26/007
Centrifuge for 36 Butyrometers

26/007

Designed for operation on 220 V A.C. power supply mains. Used for centrifuging milk samples in butyrometers to determine the fat content of milk.
KOVO





26/008
SHARPLESS Centrifuge

26/008

A universal, continuous flow-type centrifuge fitted with cooling or tempering worm.

KOVO

26/009
Penning's Vacuum Gauge

A high-voltage discharge type gauge. Range: $0.2-10^{-6}$ mm Hg.

KOVO

26/010
Flowmeter with Induction Transfer

Intended for indirect measurement. The induction transmitting device ensures remote measurement and recording.

KOVO

26/011
Engler's Viscosimeter

Fitted with temperature control selector of the viscosimeter heating jacket. Automatic stirring of the tempering bath.

KOVO

26/012
CONDUCTOSCOPE II

An instrument for measurement of conductance of solutions and conductimetric titration. Designed for operation on 220 V, 50 c/s, A.C. mains. Range: 1 ohm - 20 Megohms.

KOVO

26/013
MULTOGRAPH

A controlling and recording instrument for measurement of pH even during very difficult working conditions. The instrument is protected against aggressive gases and vapours.

KOVO

26/014
Electromagnetic Titration Stirrer

The stirrer does not impede the insertion of electrodes, the thermometer and the inlet of titration substances. The instrument permits stirring of solutions in closed and evacuated vessels. Range of r. p. m.: 60-600. Power supply: 220 V, 50 c/s A. C. mains.

KOVO

26/015
Oil Oxidation Number

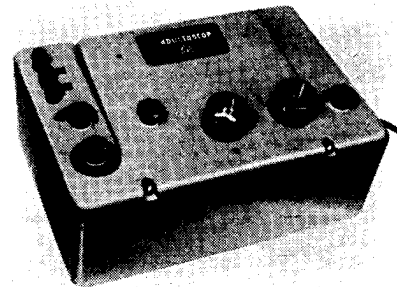
Fitted with an independent heating device of the reheating tank for keeping temperature constant at 140 °C. A series of water manometres are provided for keeping the oxygen flow constant.

KOVO

26/016
Portable Smoke Recorder

And instrument for evaluation of exhaust gases of Diesel engines by the amount of suspended burnt particles of oil inside the exhaust tube on a filter paper. Designed for operation on 220 V mains.

KOVO

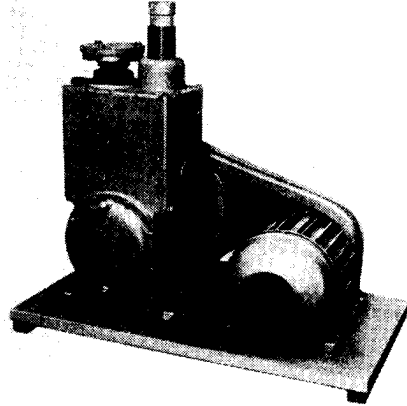


26/017
Thermostat

Designed for keeping the temperature of the interior space constant at a temperature set at a required degree within the range of approx. $+30^{\circ}\text{C}$ to $+60^{\circ}\text{C}$. KOVO

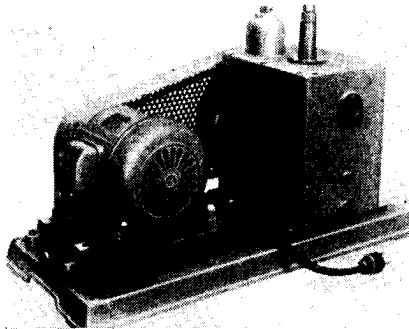
26/018
Oil Diffusion Pump

Pumping speed: 10, 30, 150, 250 and 500 litres per sec. Attainable high vacuum: 10^{-6} mm Hg, with freezing 10^{-7} mm Hg. KOVO



26/019
Rotary Oil Vacuum Pump, No. 1

Pumping speed: 3, 15, 30, 120 m^3 per hour. Attainable high vacuum: 10^{-2} mm Hg. Type RV3 is air cooled, types RV 15, 30, 120 are water cooled. KOVO



26/020
Rotary Oil Vacuum Pump,
7 m^3/h , No. 2

Attainable high vacuum: 10^{-3} mm. KOVO

26/021
Pumping Unit

A combination of rotary oil vacuum pumps, pumping speed 7 m^3 per hour, and of the paraffin diffusion pump, pumping speed 10 litres per sec. A cock and a checking discharge lamp are provided for determining the degree of attained fore-vacuum. KOVO

26/022
Metal Coating Unit

Designed for metal coating of various materials with different metals in the vacuum. KOVO

26/023
LP 55 Polarograph

A photographic recording polarograph for very accurate analytical examinations and analyses of materials according to the Heyrovsky's classical method. KOVO

MICROSKOPY

26/026

MEOPTA S 30 Stereoscopic Microscope

Intended for observation and examination in different medical branches, e.g., gynaecology, colposcopy, ophthalmology, ear, throat and other medical sciences. KOVO

26/027

Petrological Microscope

Intended for extensive work in natural as well as polarised light. Magnification: 12× to 1,500×. KOVO

26/028

MEOPTA A 26 V Microscope, Type 561 09

Fitted with adjustable eyepiece tube and square mechanical stage for complicated laboratory and diagnostic works. Total magnification: 36× to 1,500×. KOVO

26/029

MEOPTA A 36 Bi Microscope, Type 561 12

Fitted with binocular head, coefficient 1.5× and square mechanical stage for extensive research and development work. Total magnification: 54x-2,250x. KOVO

26/031

MEOPTA A 11 P Microscope, Type 561 01

Fitted with fixed eyepiece tube and circular fixed stage for basic biological studies. Total magnification: 24× to 450×. KOVO

26/032

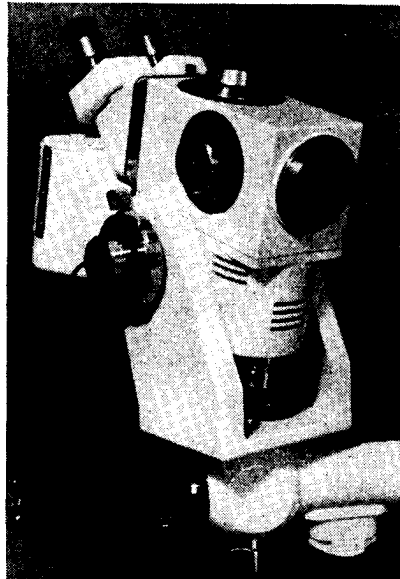
MEOPTA A 23 P Microscope

Designed for complicated laboratory and diagnostic work. Magnification: 36× to 1,500×. KOVO

26/033

MEOPTA B 26 S Microscope

Designed for complicated laboratory and diagnostic work. Magnification: 36× to 1,500×. KOVO



26/026

26/034

MEOPTA A 23 Bi Microscope, Type 561 13

Fitted with binocular head, coefficient 1.5× and circular centering stage, intended for complicated laboratory and diagnostic work. Total magnification: 54× to 2,250×. KOVO

26/035

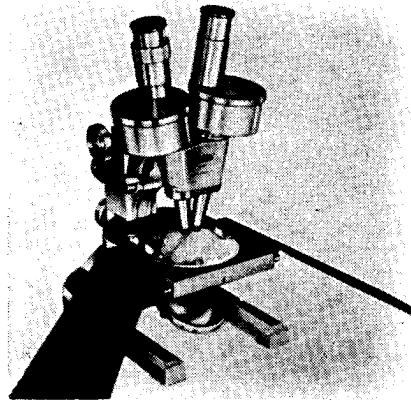
MEOPTA A 12 P Microscope, Type 561 02

Fitted with fixed eyepiece tube and square fixed stage, intended for biological studies. Total magnification: 24x-450x. KOVO

26/036

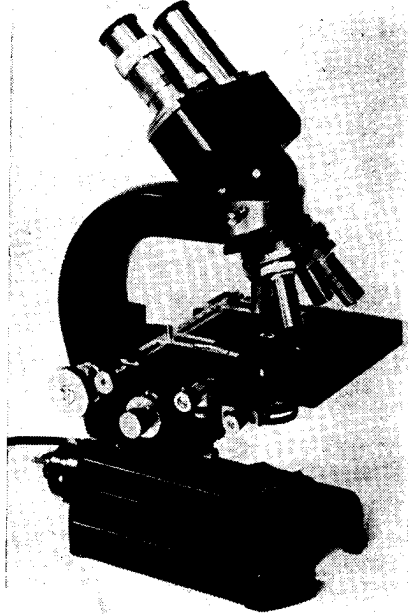
MEOPTA B 23 S Microscope, Type 562 06

Fitted with inclined eyepiece tube and circular centering stage for complicated laboratory and diagnostic work. Total magnification: 36× to 1,500×. KOVO



26/037
MEOPTA G 11 P Stereoscopic
Microscope, Type 563 01

This microscope, fitted with tiltable stand, ensures direct view of stereoscopic observation in passing and incident light. Total magnification: $10.8\times$ to $100\times$.
KOVO



26/039

26/039
MEOPTA C 36 Bi Microscope
Type 562 43

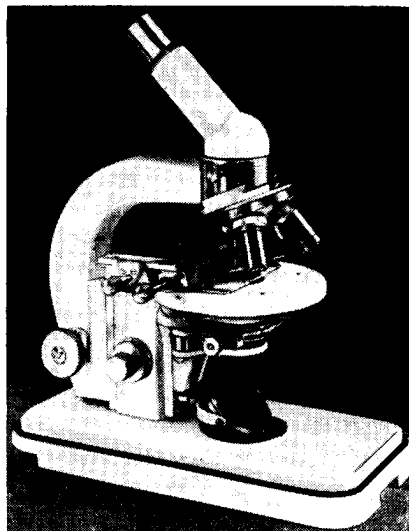
The foot of the stand is fitted with a small illuminator. The microscope is provided with binocular head, coefficient $1.2\times$ and square mechanical stage. Total magnification: $43\times$ to $1,800\times$.
KOVO

26/040
MEOPTA PA Polarizing
Microscope, Type 565 03

Intended for extensive examination when carrying out observation in polarized or natural light with the possibility of conoscopic viewing and accurate measurement. Total magnification: $12\times$ to $625\times$.
KOVO

26/041
MEOPTA BC 28 SV Travelling
Microscope, Type 562 21

A portable microscope with inclined adjustable eyepiece tube, circular fixed stage and mechanical slide carrier. Total magnification: $36\times$ to $2,000\times$. KOVO

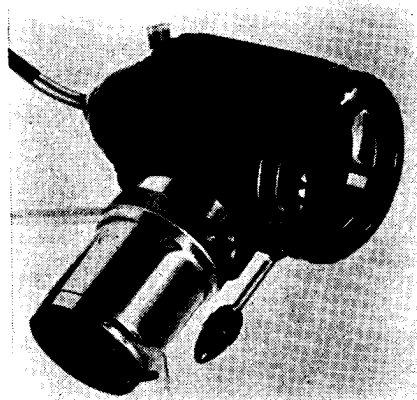


26/042
MEOPTA Phase Contrast Device,
Type 579 03

A supplementary device of accurate microscopes designed for the new microscopic observation technique. *KOVO*

26/043
MEOPTA Bürker's Haemocytometer Chamber

Fitted with Bürker's ruling, intended for counting of red and white corpuscles and blood platelets. *KOVO*



26/044

26/044
MEOPTA "N" Microscope Lamp

Used for illumination during microscopic observation in passing light. The lamp is fitted with a low-voltage bulb but with high light output. Can be connected to the power supply mains via a transformer. *KOVO*

26/045
MEOPTA Paraboloid Condenser

Used for microscopic observation in the so-called dark field, when even the most minute particles and micro-organisms give very contrasting images. *KOVO*

26/046
MEOPTA "P" Petrological Mechanical Slide Carrier

A supplementary device of the polarizing microscope, type PA 565 03, used

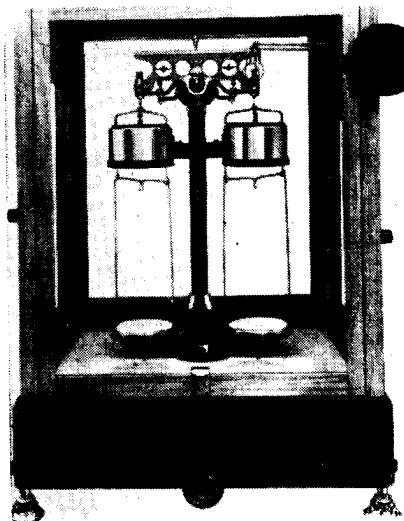
for continuous setting of the petrological specimens. *KOVO*

26/047
MEOPTA SMA Semi-Micro-Analytical Balance, Type 163 01

Designed for very accurate weighing in laboratories. Maximum capacity: 100 g, sensitivity: 0.01 mg. *KOVO*

26/048
MEOPTA A 3 Analytical Balance, Type 165 01

Designed for very accurate weighing in laboratories. Maximum capacity: 200 g, sensitivity: 0.1 mg. *KOVO*



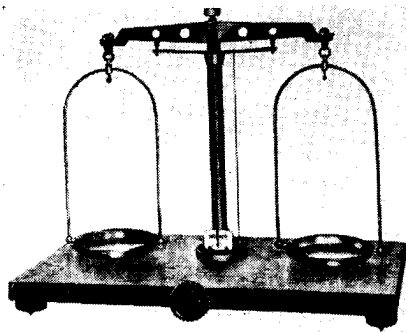
26/049

26/049
MEOPTA A 1 Analytical Balance, Type 163 02

Designed for very accurate and rapid weighing in laboratories. Maximum capacity: 200 g, sensitivity: 0.1 mg. *KOVO*

26/050
MEOPTA T 1/100, 200, 500 Technical Balance, Type 154 01-03

Designed for accurate weighing in works laboratories and research institutes.



26/050

**MEOPTA T 2/1000, 2000, 5000,
10,000 Technical Balance,
Type 154 04-07**

Intended for accurate weighing in works laboratories, research institutes, etc.

**MEOPTA T 3 Technical Balance,
Type 158 31**

Designed for determination of water content in butter. Maximum capacity: 100 g, sensitivity: 2 mg. KOVO

**26/051
MEOPTA K 1 Torsion Balance,
Type 152 01-13**

Designed for determination of very minute quantities of various materials. Weighing range (according to the type of balance: 1 mg—10 g, sensitivity: 0.002—20 mg. KOVO

**26/052
METRA Wedge-type Polarimeter,
Type 62011**

Also called saccharimeter, used in sugar refineries for concentration determination of sugar solutions. KOVO

**26/053
METRA Circular-type Polarimeter,
Type 62010**

Used to determine concentration of optically active substances in sugar industry, medicine, chemistry, fodstuff and cosmetic industries. KOVO

**26/054
METRA "Simplex" Polarimeter,
Type 62004**

Used for examination of different solutions in medicine. KOVO

**26/055
METRA Stammer's Colorimeter,
Type 62500**

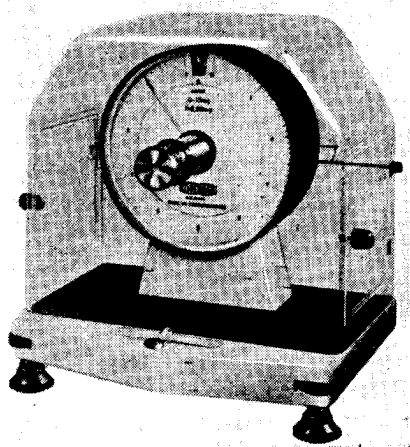
An optical instrument for checking the density of sugar juices and solutions in sugar refineries. KOVO

**26/056
METRA White Light Lamp**

An accessory of the wedge-type polarimeter-saccharimeter, fitted with a standard electric incandescent lamp. KOVO

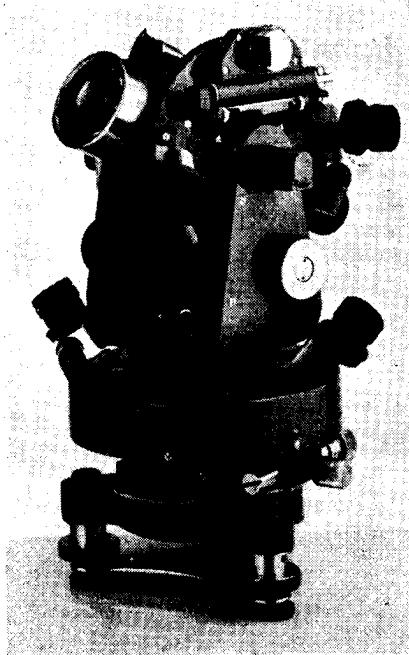
**26/057
METRA Sodium Light, Type 62013**

Supplied as an accessory of the polarimeter, ensures yellow chromatic light. KOVO



**26/058
MEOPTA TH Theodolite 30X,
Type 605 04**

A universal goniometric repetition instrument fitted with a detachable tripod and metal circles, intended for lower-order triangulation. KOVO



26/059

26/059
MEOPTA THO Theodolite 30X,
Type 605 07

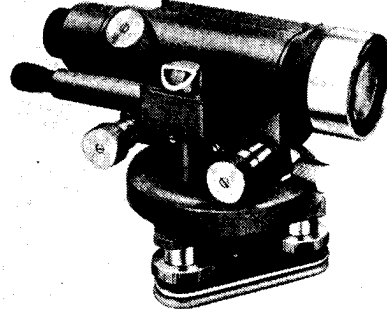
A universal goniometric repetition instrument, fitted with a detachable tripod and metal circles, intended for lower order triangulation, suited for underground surveying work. Electrical illumination is provided for work at night. *KOVO*

26/060
MEOPTA T1X, Theodolite,
Type 605 05

A universal repetition instrument, fitted with detachable tripod and glass circles, intended for lower-order triangulation. Electrical illumination is provided for work at night. *KOVO*

26/061
MEOPTA Pilot Balloon Theodolite
Type 605 10a

Used for tracking pilot balloons; gives the direction and strength of the wind at different heights. *KOVO*



26/062

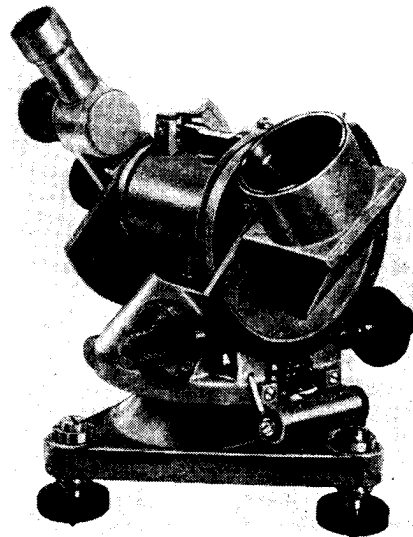
26/062
MEOPTA NK Surveyor's Level
30X, Type 603 04

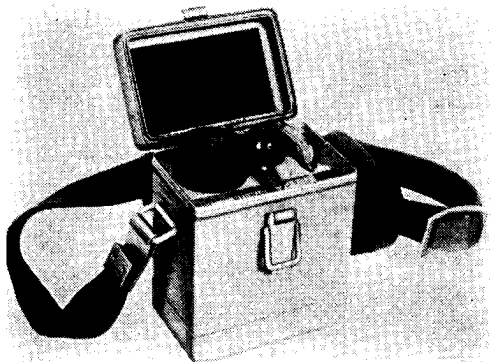
Intended for levelling work, surveying of level ground, for measuring deformations, etc. *KOVO*

26/063
MEOPTA Universal Optical Square,
Type 601 06

Used to mark out lines perpendicular to lines, plotting of lines, location plans and for rough determination of contour-lines. *KOVO*

26/063





26/068

Universal Anemograph 957

an instrument for indication and recording wind direction, as well as momentary and average wind speed.

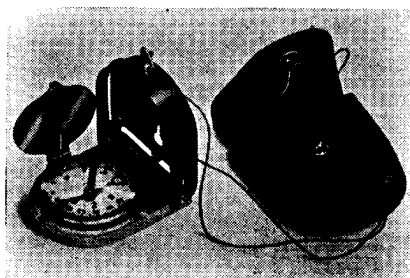
KOVO

26/069

Radio Meteorological Set 971

in connection with meteorological instruments for determination of barometric conditions in high atmosphere. A set of instruments for meteorological stations.

KOVO



26/064

**MEOPTA BÉZARD Compass,
Type 114 01**

An instrument for indicating the four cardinal points, for orientation in the field, for determining the marching direction, for orienting maps, etc.

26/064

KOVO

26/065

**MEOPTA Geological Compass,
Type 114 02**

Used for geological-magnetic investigation works.

KOVO

26/066

**MEOPTA NK Surveyor's Level
10X, Type 603 05**

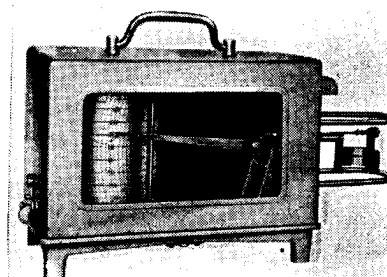
Used for rough levelling work when surveying building plots, railway dams, etc.

KOVO

26/067

Refractometers

are used for determination of index of refraction of examined liquid. KOVO



26/070

26/070

Thermograph 871

Serves for recording ambient air temperature.

KOVO

Hygrograph HG 882

Serves for recording of relative air humidity.

KOVO

Barograph BG 197

Serves for recording of barometrical pressure expressed in 1 mm Hg equals 1 mm on recording chart.

KOVO

Microbarograph MIBG 183

Serves for recording changes of barometric pressure expressed in 1 mm Hg equals 2 mm on recording chart.

KOVO

THHG 851 Thermo-Hygrograph

Designed for recording air temperature in the room and simultaneously the relative humidity of the air.

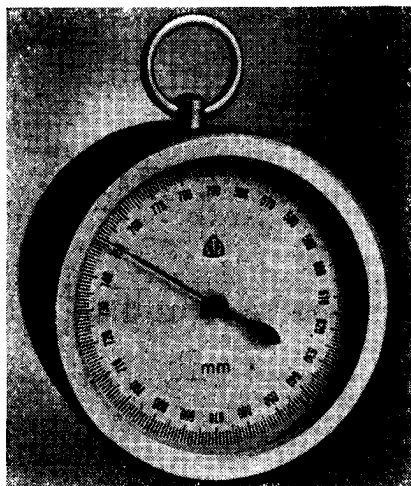
KOVO

HEL 875 Heliograph

Used for recording the time and duration of sunshine. *KOVO*

PM 885 Psychrometer

Used for accurate determination of the relative humidity of the air. *KOVO*



AN 835 Aneroid, Small Type

An instrument for measurement of atmospheric pressure. Range of dial: 560-790 mm Hg. Accuracy of measurement: 0.2 mm Hg on 10 mm Hg. Temperature compensation: -30° to $+50^{\circ}\text{C}$. *KOVO*

ANV 836 Aneroid, Large Type

Used for measurement of barometric pressure. The instrument is suspended on steel springs in a portable case. Range of dial: 500 mm Hg - 800 mm Hg. Accuracy of measurement: 0.1 mm Hg on 10 mm Hg. Temperature compensation: -35° to $+50^{\circ}\text{C}$. *KOVO*

RSM 827 Recording Vane

Used for indication of the wind direction. Range: 4 main and 4 secondary directions, 1 revolution of the recording drum: 12 hours, 7-day clock-work. *KOVO*

AR 950 Hand Anemometer

Used for measurement of momentary wind velocity. Range: 0-25 m/sec. *KOVO*

ARH 953 Three-Pointer Anemometer

Used for wind measurement within a certain period. *KOVO*

HM 883 Hygrometer with Thermometer

Used for measurement of relative air humidity. *KOVO*

HMK 884 Chamber Hygrometer

Used for measurement of relative air humidity in incubators. *KOVO*

S90 Ombrograph

Used for automatic recording of rain-falls. 1 mm of rainfall = 5 mm plotting on the recording chart. The recording drum revolves once in 26 hours. *KOVO*

26/071

METRA Linnigraph - Remote Transmitter, Type 66525

Used for checking variations of water level. When water level is changed, electric impulses are sent out to the remote receiver. *KOVO*

26/072

METRA Recording Linnigraph - Receiver, Type 66542

Used for recording the water level. It receives electric impulses of the remote transmitting linnigraph, type 66525. *KOVO*

KOVOEXPORT,

Czechoslovak Export Magazine of the Czechoslovak
Light and Precision Engineering Industry.

27 ELECTRONIC MEASURING INSTRUMENTS

27/001

Work-shop Oscillator Tesla BM 205

designed for balancing h. f. circuits and for controlling the selectivity and sensitivity of receivers. Frequency range 94 kc to 30 mc divided into 5 subranges.
KOV

27/002

A. C. Stabiliser Tesla BM 206

operates with magnetically saturated iron and is assembled from elements, which are partly in resonance. Maximum load 300 W. Output for loads of 100, 200 and 300 W.
KOV

27/003

L. F. Millivoltmeter TESLA BM 210

for measuring small voltages in the frequency range of 20 c/s to 30 kc. The measuring range of 0.003 to 300 V is divided into 10 subranges. Accuracy ± 3 per cent within the range of 30 c/s to 20 kc.
KOV

27/005

Feeding Source Tesla BS 275

with the following voltages brought out for heating electron tubes: $2 \times 6 \frac{3}{2}A$, 12.6 V/1A, 4 V/3A. Anode voltage within the range of 0 to 700 V at abt. 100 mA consumption.
KOV

27/006

Teraohmmeter Tesla BM 283

for measuring large resistances and isolation resistances within the range of 10^5 to 10^{13} Ohms. The accuracy of measurements is abt. 10 per cent.
KOV

27/007

Short-circuit Meter Tesla BM 285

for the detection of short-circuit between the turns of transformer coils, amplifier coils, h. f. coils, etc. Measuring frequency abt. 900 c/s.
KOV

27/008

Voltohmmeter Tesla 289

for the measurement of D. C. and A. C. voltages and resistances. It measures

D. C. voltages up to 6 kV, and A. C. voltages up to 300 V (20 c/s. to 50 mc). Errors of indication: D. C. voltages 3 per cent, A. C. voltages 5 per cent. Range of the ohmmeter 0 to 200 megohms, error of indication ± 5 per cent.
KOV

27/009

RLC Bridge Tesla TM 393

for measuring resistances, capacitances and inductances. Ranges: Resistances 0.01 to 10 megohms inductances $10 \mu H$ to 1000 H, capacitances 1 pF to $100 \mu F'$. The accuracy for R and C is ± 2 per cent, for L ± 3 per cent.
KOV

27/010

Absorption Wavemeter Tesla BM 307

for quick measurements of the frequency range 100 kc to 50 mc. Accuracy ± 2 per cent.
KOV

27/011

Electronic Changer Tesla TM 557

for the observation of two simultaneous phenomena on an oscillogram. The change-over frequency can be adjusted gradually within the range of 30 c/s to 50 kc. The frequency range of amplifiers is 30 c/s to 150 kc.
KOV

27/012

Oscillogram Tesla TM 694

for the observation of instantaneous periodic electrical phenomena. Frequency range 20 c/s to 500 kc. Incoming impedance 50 kilohms, or when using the divider 1:10, 0.45 megohms/4 pF. Maximum D. C. component 250 V.
KOV

27/013

Tesla BM 208 D. C. Source

Source of D. C. voltage suitable to be regulated within the range of 0 to 250 V at 300 mA load, or 0 to 500 V at 240 mA load. The panel accommodates also the voltages for heating standard electron tubes and the A. C. voltage regulated within the range of 0-250 V.
KOV

27/014
Q-Meter up to 30 Mc/s Tesla
BM 211

measures the electrical quality of coils, may also be used to measure inductances and capacitances and to ascertain the losses of condensers and dielectric materials. Measuring range of Q from 0 to 450 in two ranges. Accuracy of the measurement ± 5 per cent. Capacitances can be measured from 0.1 pF to 450 pF directly with an accuracy of ± 3 per cent. KOVO

27/015
Q-Meter 30 to 200 Mc/s Tesla
BM 220

Laboratory measuring instrument intended to measure the electrical quantity of coil and condensers within the frequency range of 30 to 200 mc. KOVO

27/016
AM Generator Tesla BM 223

Laboratory h. f. measuring generator for various measurement on h. f. circuits. It operates within the frequency range

of 30 kc to 30 Mc/s and is particularly suitable for laboratory measurements on radio receivers, etc. KOVO

27/017
Video-Generator Tesla BM 286

for measuring and trimming wide-band amplifiers. Frequency range 10 c/s to 10 Mc/s. Distortion 5 per cent at 5 V incoming voltage. KOVO

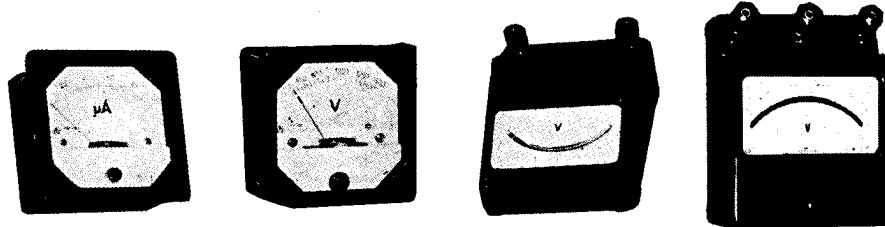
27/018
Frequency Substandard Tesla
BM 287

This is a high-precision source of the high frequency of 100 kc/s and six derived frequencies obtained by subdivision for the purpose of comparing frequencies at from 10 c/s to 1.5 Mc/s. KOVO

27/019
Distortion Meter Tesla BM 224

for direct measurements of the percentage distortion of amplifiers, receivers, generators etc. Readings within the range of 0.1 to 100 per cent in five subranges. KOVO

28 DIAL MEASURING INSTRUMENTS

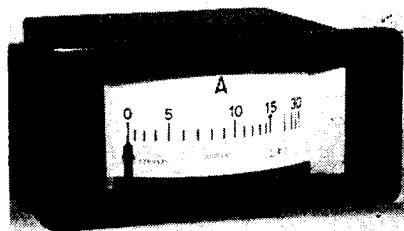


28/001-003
DHR 3, DHR 5, DHR 8
Small Switchboard Instruments

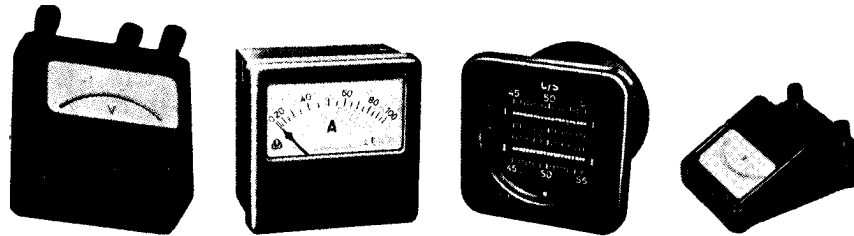
Designed for flush mounting; intended for measuring D. C. currents and voltages (, A). KOVO

28/004
EHi 5
Switchboard Instruments

Designed for flush mounting, square pattern, intended for measuring A. C. currents and voltages (V, A). KOVO



28/005



28/005
EPpi 4, EPp 6
Switchboard Instruments
The same as above but edgewise pattern (V, A) KOV0

28/006
GIHR 5
Wattmeter Switchboard Instrument
Designed for flush mounting, square pattern, for measuring A. C. power. KOV0

28/007
CHi 5
Power-Factor Meter
The same as the former. Serves for measuring power factor in A. C. single and three-phase systems with lagging and leading loads. KOV0

28/008
KH i5
Frequency Meter
Used for measurement of power frequencies in A. C. systems (resonance system). KOV0

28/009-014
Ship Instruments
Built in sturdy casings, designed to operate under especially heavy duty conditions. Flush-mounted, square pattern.

EHR 16/L Voltmeters and Ammeters
For measurement of A. C. currents and voltages.

KKHR 16/L Double Frequency Meters
Used for measuring technical frequency in two independent A. C. systems.

GIHR 16/L Wattmeters
Used for measuring A. C. power.
CHR 16/L Power Factor Meters
Used for measuring power factor in three-phase A. C. systems

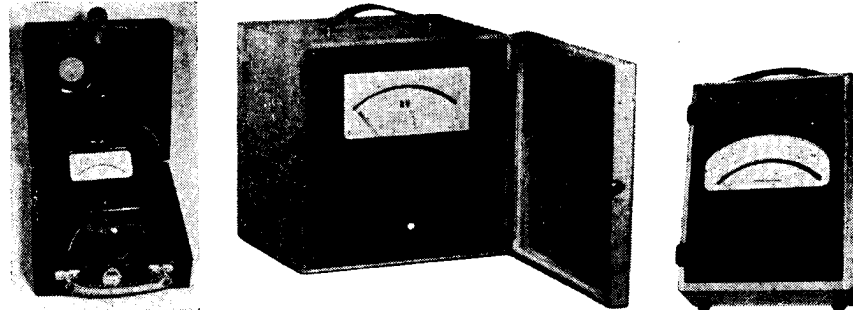
SyHR 16/L Synchrosopes
Serves for checking revolutions of electric apparatuses with paralleling switching.
oDsHR 16/Lc Revolution Counters
Used for remote speed indication. Pointer deflection 240°. KOV0

28/015
Laboratory Instrument
ELi
Laboratory voltmeters and ammeters for measurement of A. C. voltages and currents. Degree of accuracy: 0.5%. KOV0

28/016
Laboratory Instrument
DLi
Laboratory voltmeters and ammeters for measurement of D. C. voltages and currents. Degree of accuracy: 0.5%. KOV0

28/017
Laboratory Instrument
OtLi
Used for radio-frequency measurement of voltages and currents. Degree of accuracy: 1.5%. KOV0

28/018
SLi Current transformer
Used for increasing the basic current ranges of PLi or GLi wattmeters. KOV0



28/019
Electrodynamic Wattmeter
PLi

Laboratory type designed for measurement of A. C. and D. C. power (portable). Degree of accuracy: 0.5%

KOVO

28/020
Ferrodynamic Wattmeter
GLi

Portable, designed for measurement of A. C. power. Degree of accuracy: 0.5%

KOVO

28/021
Series Resistor
RLiG

Used to increase the voltage range of the GLi ferrodynamic wattmeter, 60 to 600 V (portable).

KOVO

28/022
Synchronizing Bracket
RSyO

Used for parallel test switching of alternators.

KOVO

28/023
Laboratory Accurate Electrodynamic Measuring Instruments
PSLL

For accurate measuring of A. C. currents and voltages. Degree of accuracy: 0.2%. (Voltmeters, ammeters or wattmeters.)

KOVO

28/024
Laboratory Instruments
DLL

Designed for accurate measurement of D. C. voltages and currents. Degree of accuracy: 0.2%. (V. A.)

KOVO

28/025
CLL Laboratory Phase Meters

Used for measurement of power factor in A. C. systems (Power-factor meters).

KOVO

28/027
KLL Laboratory Frequency Meter

The same as the former but used for accurate measurement of frequency within the range 25—105% (Resonance system). Degree of accuracy: 0.5%.

KOVO

28/028
Terromet

A small and light measuring instrument of earth resistance.

KOVO

28/029
Megmet

An insulation tester.

KOVO

28/030
Unimet

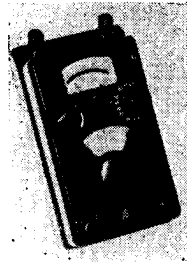
A universal measuring instrument used in workshops and laboratories. Designed for measurement of D. C. and A. C. voltages and currents, resistance, capacity and power output. Fitted with 43 measuring ranges.

KOVO

28/031
Avomet

A small universal measuring instrument adapted for installation work, designed for measurement of D. C. and A. C. voltages and currents. Fitted with 32 measuring ranges.

KOVO



28/028

28/032
Omega —

Small Wheatstone bridges for reasonably accurate measurement of ohmic resistance. KOVO

28/033
Omega 1 —

Wheatstone bridge used for measurement of ohmic resistance of max. 50.000 ohms. KOVO

28/034
Omega II —

Wheatstone bridge used for measurement of electrolytic resistance. KOVO

28/035
Omega III —

Thomson bridge used for measurement of small ohmic resistance from 0.0001 to 20 ohms. KOVO

28/036
Pyromet

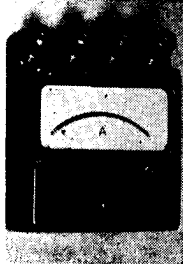
Optical pyrometer for measuring high temperatures without direct contact with the measured material. KOVO

28/037
Nulomet

An instrument for checking electrical circuits provided with zero protection. KOVO

28/038
Small Installation Potentiometer

Used for measurement of very small voltages (max. 80 mV) without current loading the measured source. KOVO



28/024



28/037

28/039
Thermomet

A small and light instrument for measuring values of thermo-couples in mV or centigrade degrees (°C). (Thermo-couples: Fe-Ko, PtRh-Pt, NiCr-Ni.) KOVO

28/040
Icomet

A small portable bridge for measurement of inductance, capacity and ohmic resistance. KOVO

28/041
Qw III Encased Set of Instruments,
transformers, switches and resistors for measurement of power, voltage, current in single or three-phase systems. KOVO

28/042
Sensivite Mirror Galvanometer
DGrz

with suspended coil, fitted with pointer and mirror, designed for measurement of very small currents and voltages. KOVO

28/043
OS 20 Illuminating and Reading-off Set
for mirror galvanometers. KOVO

28/044
Small Pointer Galvanometer
DG

40 ohms, designed for measurement of very small current values, no deflection when measuring with the use of zero methods. KOVO



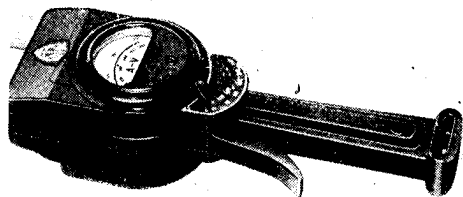
28/039

28/045
Clip-on Ammeter
Skr 86

Designed for measurement of A. C. currents without opening the circuit. Safe measurement in systems with working voltage of 22 kV. KOVO

28/046-047

Ammeters to be used with the clip-on ammeters. (Ammeters with range selection of up to 1000 A.) KOVO



28/048 28/048
Small Clip-on Ammeter DSK 65

with change-over switch for different current ranges. Possibility of measurement in systems with working voltage of up to 650 V. KOVO

28/049
Small Rotary-Switch Decade
Resistance Box
XL

KOVO

28/050
Large Precision Plug-Type Decade
Resistance Box
XLL

KOVO

28/051
Large Precision Plug-Type Decade
Resistance Box XLIX

KOVO

28/052
MLG

Small rotary-switch Wheatstone bridge with built-in galvanometer designed for reasonably accurate measurement of ohmic resistance. KOVO

28/053
MLL

Large rotary-switch Wheatstone bridge designed for accurate laboratory measurements. KOVØ

28/054
MLLk

The same as the former but a plug-type pattern. KOVO

28/055
MGK

Small Cable Bridge with built-in galvanometer, designed for fault localization of low-current cables. KOVO

28/056
QTK

Industrial Potentiometer designed for accurate measurements of D. C. voltages of up to 600 V; measurement of the e. m. f. of thermo-couples; calibration and checking of electrical measuring instruments; measurement of resistance by means of resistance standards. KOVO

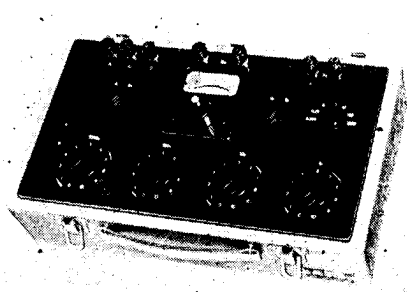
28/057
NTW

Large Rotary-Switch Precision Bridge, combination of the Wheatstone and Thomson bridges. KOVO

28/058
QmDs

Set of instruments used to determine resistance of earth systems (Checking of safety of electrical apparatuses and appliances). KOVO

28/052



28/059
VPK

Voltmeter change-over switch for successive switching of several voltage circuits when measuring with one voltmeter. *KOVO*

28/060
Tgm

Pressure switch with rubber diaphragm for switching on/off of electromotors of air compressors and in waterworks during overpressure or pressure decrease. *KOVO*

28/061
RN Resistor Standards

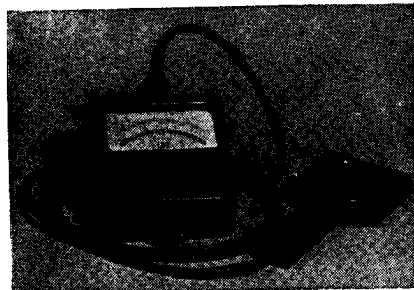
designed for very accurate measurement of resistance as primary standards (resistance units). *KOVO*

28/062
W 100 Weston International Standard Cell

KOVO

28/063
QIK

Large Laboratory Potentiometer. When using the accessories (Weston standard cell, resistance standard) very accurate measurements, with the use of compensation method, of D. C. voltages, currents and ohmic resistance can be carried out. *KOVO*



28/064
QsIK

Laboratory potentiometer table designed for very accurate measurements of D. C. voltages, currents and ohmic resistance. *KOVO*

28/065
QEK

Clip-on ammeter for measurement of D. C. and A. C. currents without opening the circuit in systems with working voltage of max. 650 V. *KOVO*

28/066
OPK

Cylindrical sliding resistors, used where it is required to connect a variable resistance into a circuit for purposes of current control. *KOVO*

28/067
OOPK

The same as the former but fitted with a double cylinder. *KOVO*

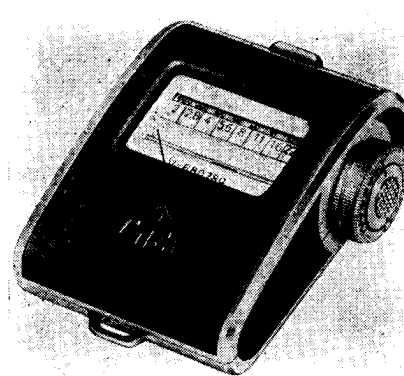
28/068
E 67

School Instrument for example measurement of D. C. currents and voltages. *KOVO*



28/069
Switchboard Measuring Instruments

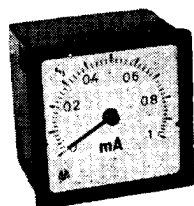
intended to be mounted in panels. Circular scales, pointer deflection 240°. Used for measurement of D.C. and A.C. currents and voltages, power, and remote speed indication. KOVO



28/070
Exposure Meter

Used to determine effective aperture of lenses and exposure times in photography. KOVO

28/070



28/069



28/040

29 VACUUM TECHNIQUE

29/001
Electron Tubes

all-glass of standard design, *miniature battery tubes* with reduced heating input, *miniature line tubes* for series and parallel heating, modern *noval line electron tubes* for use in radios and TV-s, *amplifying electron tubes* of high and small capacities.

Vacuum and mercury *rectifying electron tubes*, *electronic indicators* tuned for all types of receivers, *transmitting electron-tubes* of small outputs up to a frequency of 200 Mc/s, screens for oscillograms and TV-s, recording *electron tubes*, supericonoscope used for television cameras, quanticon — for industrial television, monoscope — test picture KOVO

29/002
Voltage and Current Stabilizers

miniature type, *special electron tubes* for measurements and allied purposes, *phototubes* — in which variations in applied light cause corresponding variations in electron emission, *Geiger-Müller tubes* used for measuring radioactivity and cosmic rays. KOVO

29/003
Microwave Electron Tubes:

klystrons, magnetrons, ion tubes for radio locators; semi-conductor components: germanium point diodes in glass, flat germanium rectifiers for various voltages and currents 0.3 A and 0.5 A, germanium phototubes — semiconductive triodes dependent on light, transistors — 25 and 50 mW for l. f. purposes. KOVO

29/004

Lamps

for illumination, railways, aircraft, vehicles, medical, projection, drying, photography, mines, *glowlamps*, signalling and stabilising, *fluorescent lamps* 20 W, 25 W, 40 W for illumination. KOVO

29/005

Thyratrons 25 kW/1000 A

of current. The maximum value of the controlled output is 12.5 MW.

29/006

Tacitron 80 mA and 500 mA

This is a thyratron with a special construction of the grid enabling to interrupt the burning discharge by applying a negative potential to the control grid (negatively biased grid).

29/007

Rectifying Discharge Tube with a cold cathode 2 kW/4 mA

This is a valve used to rectify high voltages ranging from industrial to acoustic frequencies. Its properties make the valve particularly suitable for all sources of high voltage (requiring no heating-coil and, consequently, no insulation of the H. T. side of the transformer). This discharge valve is of the miniature high voltage type.

29/008

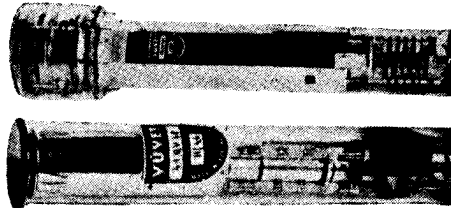
Rectifying Discharge Tube with a cold cathode 1 kW/100 uA - 13 TA 9:

subminiature type, filled with argon. This tube can be applied for measurements of alternating currents ranging from industrial to acoustic frequencies. Its characteristic values make it suitable for high-voltage sources in special transmission plants.

29/009

Screen 181 QP 44/M

for electronic finders of TV cameras, control monitors and industrial television applications. Useful screen area 105×140 mm.



29/010

29/012

29/010

Quanticon 41 QV 40

This is a recording electron tube operating on the photoconduction phenomena. The split electron-tube is brought by the recording ray to the potential of the cathode. Outer dimensions: 25×165 mm.

29/011

Resisticon 63 QK 41

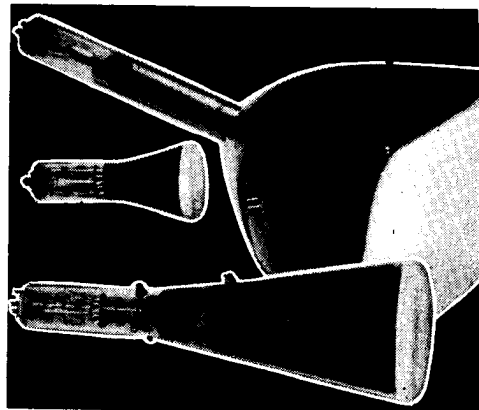
is an accumulating recording electron tube with a rapid beam. Applied for recording in studios and for transmission. It has a good ratio between signal and hum also in only slightly illuminated sceneries.

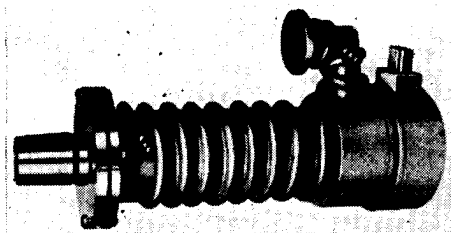
29/012

Superorthycon 61 QM 40

is a recording electron tube with a slow ray used for slightly illuminated sceneries.

29/009





29/013

29/013
Oil Diffusion Suction-Pump

This suction pump of 500 to 5,000 litre/sec pumping speed with its control valve block and gauges forms a complete vacuum unit for evacuating

metallized equipments and vacuum de-aerating and metallurgical furnaces. It is also used in atomics.

29/014
Vacuum Unit 500 litres/second

Pumping speed 500 to 700 litres/sec. Final vacuum (without freezing) $< 2 \cdot 10^{-6}$ mm Hg. Admissible starting vacuum 0.1 to 0.3 mm Hg.

29/015
Oil Diffusion Suction-Pump
500 litres/second

Pumping speed 5000 to 8000 litres per second. Admissible starting vacuum 0.1 to 0.3 mm Hg. Final vacuum $< 2 \cdot 10^{-6}$ mm Hg.

**30 RADIO RECEIVERS — RADIO-GRAMS —
MAGNETIC RECORDERS**

30/001-030
Table Receivers

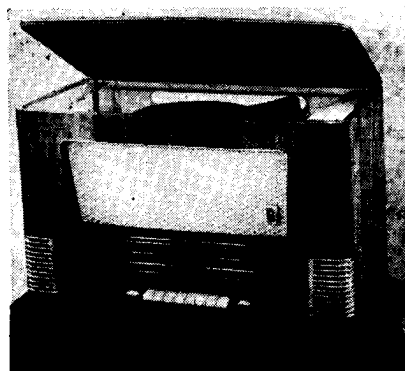
are modern superhet receivers in boxes made of plastics or polished wood; besides standard wave ranges, numerous types are also equipped for receiving frequency modulated radio transmissions, and are provided with change-over pushbuttons, a ferrite antenna and efficient control of high and low tones. A high-quality tone is guaranteed by means of several loudspeakers.

KOVO

30/031-050



30/001-030



30/031-050
Table Radio-grams

of various sizes for radio reception on standard wave bands as well as for reproducing gramophone records.

KOVO

30/051-060

Musical Boxes

present suitable furniture supplements. They are used for the reception of radioprogrammes as well as for the reproduction of gramophone records. The boxes are designed for superb acoustics and accommodate the chassis, the modern three- or four-speed gramophone and the magnetic recorder. The carefully selected reproducing combination guarantees top class reproduction of musical programmes. KOVO



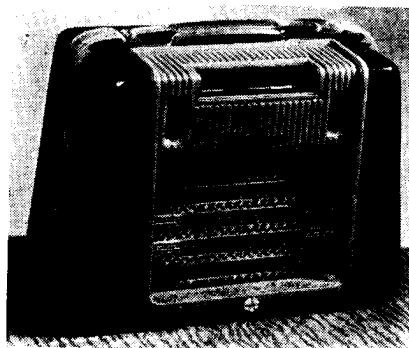
30/051—060

30/061-080

Portable Case-type Receivers

according to choice either portable for various wave ranges or hand-bag type for the reception of medium waves, are of modern design, in two-colour cabinets made of plastics.

The receivers are fitted with modern valves of small power consumption and ferrite aerials. They can be connected to the mains (hand-bag receivers by means of a special equipment). KOVO

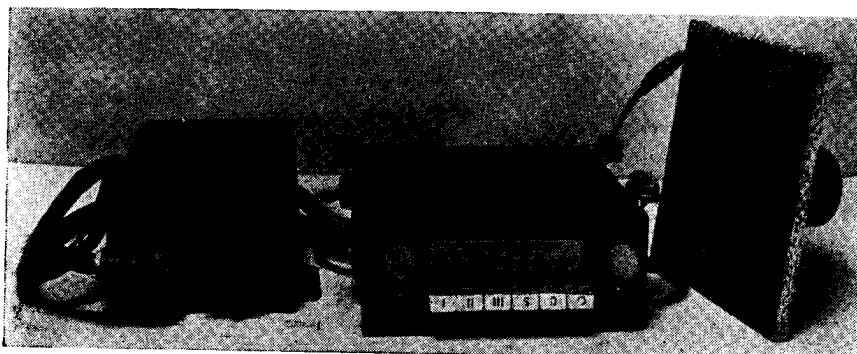


30/061—080

30/081-100

Magnetic Tape Recorders

for recording and reproducing sound are mounted in an elegant case; they enable double imprint records at speeds of 19.05 and 9.5 m/sec and quick transport of the tape in both directions. They are provided with connectors for a modulating line and a headphone. The Magnetic-Recorder Adaptor can be used in conjunction with all standard gramophones. It enables double-imprint records at a tape speed of 19.05 m/sec. KOVO





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and intermediates
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etc.
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The theory of Indirect Speed Control.
By Miroslav Nechleba.

The book deals with the subject of indirect speed control in steam and hydraulic turbines, deduction of conditions of the stability of control and with the influence of driving moment variation upon control in relation to speed. It contains further a new graphical method for the determination of the water-hammer effect in hydraulic turbine installations.

Mir. Nechleba

THEORIE
INDIREKTNÍ
REGULACE
RYCHLOSTI

Julius Mackerle

VZDUCHEM
CHLAZENÉ
VOZIDLOVÉ
MOTORY

Air-Cooled Vehicle Engines.
By Julius Mackerle.

The author describes in detail the conditions of design of vehicle engines with air-cooling. Discusses problem of heat transfer from pistons, cylinders, cylinder heads, and valves into air, calculation of dimensions of cooling ribs, methods of cooling regulation, etc. Detailed instructions for calculating and designing all parts of air-cooled engines and examples of successful engine designs are also included in the book.

Slag-Tap Furnaces.
By Richard Doležal.

Describes the theory, design, construction, and operation of slag-tap furnaces of power station boilers and their auxiliary equipment; the properties and the preparation of fuel for slag-tap furnaces, the thermal calculation. The contents are supplemented by several chapters dealing with other parts of boilers equipped with slag-tap furnaces.

Rich. Doležal

VÝTAVNÁ
OHNIŠTĚ

V. List
K. Pochop

MECHANIKA
VENKOVNÍCH
VEDENÍ

Mechanics of Overhead Power Transmission Lines. By V. List and K. Pochop.

The theory of calculation of mechanical stresses of conductors, insulators, and poles for overhead transmission lines with regard to the influence of temperature, atmospheric effects and surroundings includes many examples of various designs of conductors, insulators, and poles, laying of foundations with regard to the composition of soil, design, calculation, construction, and mounting of overhead transmission lines, in particular of high tension transmission lines.

TECHNICAL LITERATURE

Equipment of Factories and Refineries
Beet and Cane Sugar.
J. S. Chalupa.

Volume I. - Production of Treacle.
The first volume of this book covers the technological equipment of stations used for transportations of raw materials, production of sirups, clarification and condensation up to the production of treacle. Beginners will be acquainted with the production process and the machinery and equipment of sugar factories; advanced readers with operation and design of the individual parts as well as whole stations of various types.

J. S. Chalupa
STROJNÍ ZAŘÍZENÍ
A RAFINERIE
řepných
i třtinových

Volume II. - Production of Raw and Refined Sugar.
Deals with the production of raw and refined sugar, includes the descriptions and calculations of equipment for boiling, crystallisations, and centrifugal separation of sugars, refining and production of refined products and describes complete schemes of sugar factories and refineries, their accessoires and auxiliary equipment.

Miloš B. Volf
TECHNICKÁ SKLA
v průmyslu,
laboratořích,
elektromechanice
a zdravotnictví

Technical Glass in Industry, Laboratory, Electronics and Sanitary Institutions.
By Miloš B. Volf.

Brings complete explanation of glass used in technical practice, describes the physical and chemical properties of glass and methods of its utilization. Deals with chemical, heat resistant, instrumental, fusion and vacuum glass as well as with glass for discharge tubes, combustion tubes, joining glass, hard and eutectic glass, and some special types of glass.

Publication is prepared of:
Technology of Carbonizing Process
in Coking Plants and Gas Works.
By Rudolf Riedl.

This is a new and condensed elaboration of the known publication: Gas Producing Plant, Vol. I-III, by Perna-Riedl. Up-to-date scientific knowledge and theory concerning the field of carbonization is fully respected. Apart from the description of plant and equipment, the work contains the evaluation of criteria important for practical operation, and is supplemented by values and data approved by practical experience.

Rudolf Riedl
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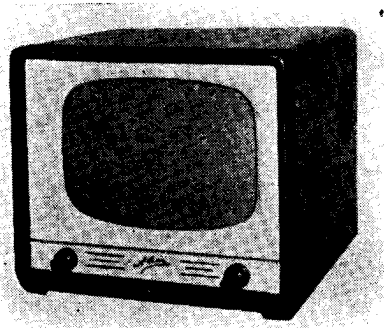
Pyrotechnical Goods

31 TELEVISION SETS

31/001

TV Sets

of the table or stand type for the reception of television programmes. According to the quality class they have screens of 36, 43 and 53 cm diagonals and different numbers of reception channels. KOVO



31/001

31/002

Television Aerials

KTA 3/70 for receivers up to a range of 60 km or 37.3 m. KTA 1/70 for receivers up to a range of 15 km or 9.32 m. KTA 6/24 for receivers of foreign television programmes.

32 REPRODUCTION EQUIPMENT

32/001

Reproducers of the Standard Series

are divided in normal type "O", elliptical "E" and pressure (altitude) type "T". The common feature of all reproducers of the standard series is the wide frequency range and the suppressed subharmonic oscillations. A special type is the listening crystal reproducer, the so-called whisperer. KOVO

32/002

Box Reproducers

applied in local transmission for installation in various reproducing systems of the standard series with an adjusting transformer for a 100 V system. KOVO

32/003

Directional Reproducers

applied in local transmission for installation in out-of-door spaces. Reproducers with standard systems for an input of 6 and 12.5 W are provided with an acoustic system in suitably damped

double walls. The enclosures of the reproducers accommodate the adjusting transformers for the 100 V system. KOVO

32/004

Home-Combinations of Reproducers "Hi-Fi"

are self-contained units assembled from several reproducer systems. By their faithful reproduction and frequency range these combinations fulfill all conditions of high-quality reproduction. KOVO

32/005

Reproducer Combinations for Sound Cinemas

operate on the cell principle with reproducer systems of the standard series in an enclosed housing. KOVO

32/006

Microphone with Accessories

for application in local transmission. Dynamic crystal or reporting types (particularly for transmission from noisy surroundings). KOVO

32/007
Crystal Pick-Up

The crystal pick-up with a crystal of Seignett salt is intended for quality-pick-up of gramophone records with standard grooves and micro grooves. The pick-up has a wide frequency, small pressure on the point and a small side stiffness. KOVO

32/008
Electro-Acoustic Earphones

for deafish persons, equipped with electron tubes. It is assembled from three parts: the amplifier with the microphone, the battery holder and the ear-

phone. This device can be adjusted to the individual needs of the user by gradually varying the amplification by means of the potentiometer or by adjusting the change of the frequency graph by means of the correction changer. KOVO

32/009
Magnetic Tape Recording Adaptor

for recording audio programmes on a magnetic tape in conjunction with a gramophone which drives the tape, and a radio receiver for the reproduction. The play time is twice 15 minutes. KOVO

33 PHOTO — CINE — OPTICS

33/001
Spectacle Frames and Sun Goggles

Sun goggles of various shapes and colours made from polyamide with orientated hinges, practically indestructible (Czechoslovak patent). Spectacle frames of celluloid, frames with adornments or combined with metals, frames of synthetic glass (plexi-glass) and acetate-cellulose. KOVO

33/029
Club Projector 16

A sound projector for 16 mm film, with sound head and a possibility of reproduction of both optical and magnetic film records; the magnetic recording provides the possibility of home-made sound records. KOVO

33/030
Diaprojector 6×6

for projecting of 6 × 6 cm diapositive slides. KOVO

33/031
Meopton I

Professional-type stationary sound projector for 16 mm film with adapter for slide projection. Available with a POLAR lens f/1.3, (or f/1.5), F = 40 mm or 60 mm, respectively. Dustproof projector head, 1000 W projection bulb. KOVO

Meopton II

Professional-type grand-performance stationary sound projector for 16 mm film; for small-type public cinemas and lecture halls. KOVO

Meopton III

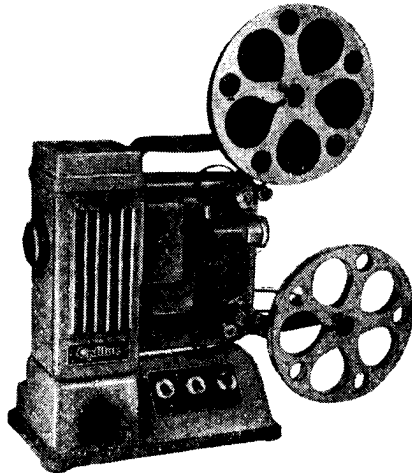
New professional-type stationary sound projector for 35 mm film; fully encased; for medium-size cinema halls intended for 400 spectators approx. Available with lens of various systems, speeds and focal lengths according to the given hall requirements. KOVO

33/032
Projector Reel

for 8 mm, 16 mm and 35 mm films in various capacities. KOVO

33/033
Optilux

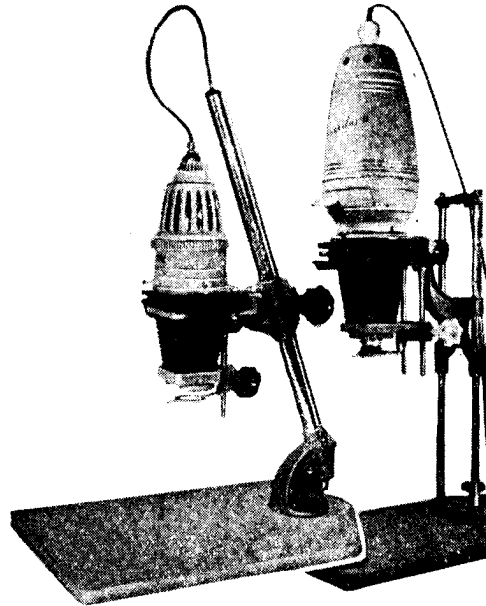
Cine projector for 8 mm film designed for amateurs, institutes and schools, with a 500 W projection bulb, a POLAR lens f/1.3, F = 25 mm. Fitted with reverse run: it is supplied with an auto-transformer for conventional mains voltages from 110 V to 240 V. KOVO



33/034
Opemus 4×4

Amateur-type precision enlarger, with oblique rod, for negatives up to 4×4 cm in size, BELAR lens f/4.5, F = 55 mm, plano-convex condenser 58 mm in dia.
KOVO

33/033



33/035
Opemus 6×6

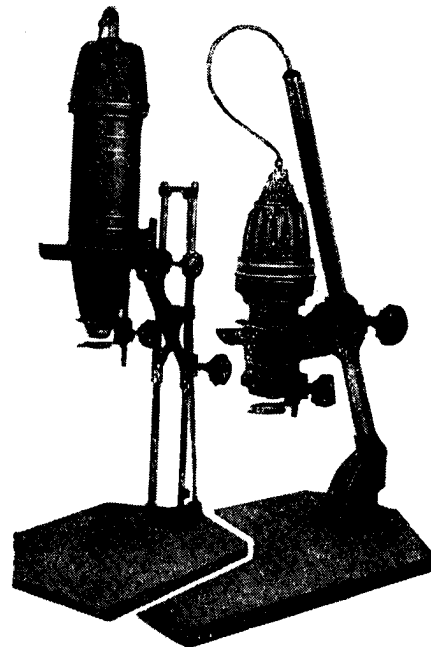
Amateur-type precision enlarger for negatives up to 6×6 cm in size, BELAR lens f/4.5, F = 75 mm, double-condenser 98 mm in dia.
KOVO

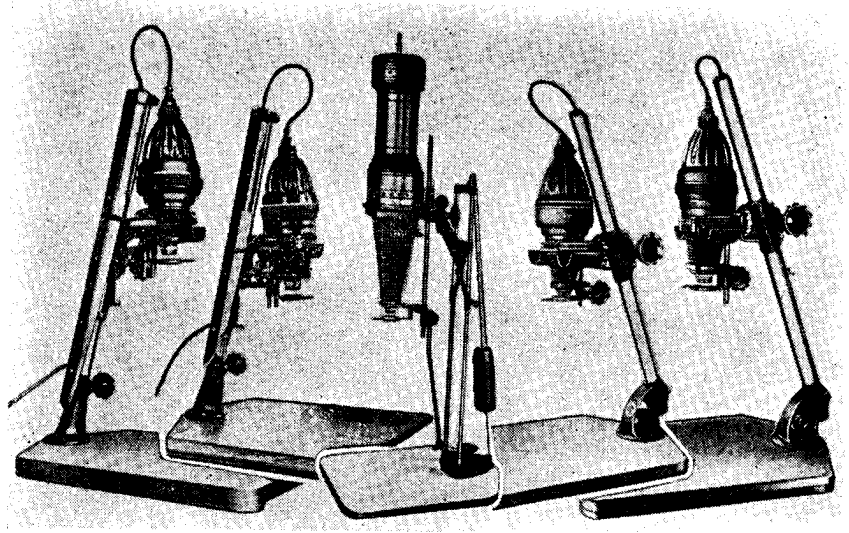
33/036
Opemus II 6×6

Semi-automatic precision enlarger with slit-focusing, for both black-and-white and colour photography, for negatives up to 6×6 cm in size, BELAR lens f/4.5, F = 75 mm, with snap-in iris diaphragm, slit-system metal easel and two glasses.
KOVO

33/037
Magnifax 6,5×9

Precision enlarger for both amateurs and professionals for negatives up to 6.5×9 cm in size, BELAR lens f/4.5, F = 105 mm, double-condenser 120 mm in dia.
KOVO





33/038
Magnifax II 6×9

Semi-automatic precision enlarger with slit-focusing, for both black-and-white and colour photography, for negatives up to 6×9 cm in size; BELAR lens f/4.5, F=105 mm, with snap-in iris diaphragm, slit-system metal easel, adjustable film guide pins, sliding-type masks and two glasses. KOVO

33/039
Magnitarus 10×15

Precision enlarger for use in scientific institutes and laboratories, for enlarging from negatives up to 10×15 cm in size, BELAR lens f/4.5, F = 180 mm, double-condenser 200 in dia. KOVO

33/040
Magnitarus 13×18

Precision enlarger for use in scientific institutes and laboratories, for enlarging from negatives up to 13×18 cm in size, BELAR lens f/4.5, F = 210 mm, double-condenser 240 mm in dia. KOVO

Hercules 18×24

Precision enlarger for use in research institutes and laboratories, for negatives up to 18×24 cm in size, BELAR lens f/4.5, F = 300 mm, condenser 320 mm in dia. KOVO

33/041
Axomat 24×36

Semi automatic precision enlarger for both black-and-white and colour photography, for negatives up to 24×36 mm in size (Leica-size), or for those made on 16 mm film; BELAR lens f/4.5, F = 50 mm, with snap-in diaphragm, easel with slit-focusing equipment and negative number checking window. KOVO

33/042
Micromax

Semi-automatic precision enlarger with slit-focusing, of the same design as the Axomat, suitable for enlarging from negatives 11×14 mm on 16 mm film, i. e. from negatives made with the Microma camera; MIRAR lens, f/3.5, F = 35 mm. KOVO

33/043
Meocolor Adapters

Adapters for precision enlargers enabling colour enlargements to be made; serve for inserting of compensating colour filters with a heat-protecting filter. KOVO

33/044
Compensating Colour Filters
75×75 mm - 135×135 mm

a set of 33 filters used for colour photography; for enlarging by means of the Meocolor Adapter. KOVO

33/045
Equalizing Filters 75×75 mm
135×135 mm

Supplement to the compensating colour filters for finding a suitable combination of compensating colour filters while enlarging; a set consisting of 3 filters. KOVO

33/046
Reproducing Bracket

Accessories to precision enlargers; in combination with a photo camera serves as a reproducing apparatus, i. e. suitable for reproducing from patterns. KOVO

33/047
Masking Equipment 18×24 cm

Accessories to precision enlargers, for masking the borders of enlarged pictures and for holding the photographic paper up to 18×24 cm in size.

Masking Equipment 30×40 cm

Accessories to precision enlargers for masking the borders of enlarged pictures and for holding the photographic paper up to 18×24 cm in size. KOVO

33/048
Focusing Equipment

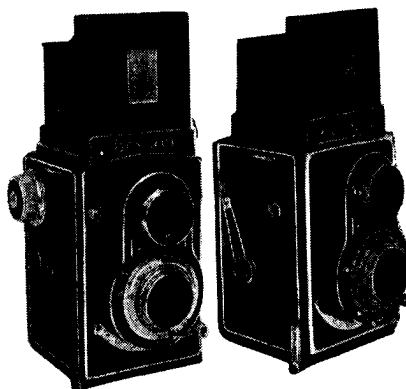
for precision enlargers; for easy focusing of the image to be enlarged. KOVO

33/049
Flexaret II

Simple-type twin-lens precision reflex camera for twelve 6×6 cm pictures on 6×9 cm (B2) film, MIRAR taking lens f/4.5, F = 80 mm, special anastigmat viewing lens f/3, F = 80 mm, METAX central shutter, adjustable to "B" time exposures and snapshots from 1 to 1/400 sec, central-focusing. KOVO

33/050
Flexaret IV

Semi-automatic twin-lens reflex camera for twelve 6×6 cm pictures on 6.5×9 cm film. BELAR taking lens f/3.5, F = 80 mm, MIRAR viewing lens f/3, F = 80 mm, depth of focus scale on focusing lever, release on camera body, semi-automatic viewfinder, interlocking device preventing double exposures and film advance without exposure. KOVO



33/051—052

33/051
Flexaret IVa

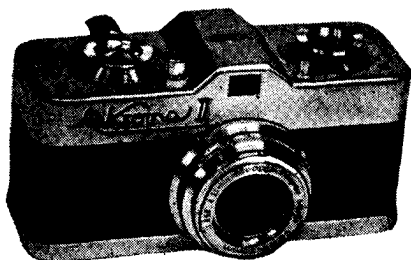
Semi-automatic reflex camera for twelve 6×6 cm pictures on 6.5×9 cm roll-film, with adapter suitable for use with 35 mm cine film. Rewind knob fitted with indicators of the kind of film used. Outfit similar to that of the Flexaret IV. KOVO

33/052
Flexaret V

Full-automatic twin-lens reflex camera for two picture sizes, i. e. for twelve 6×6 cm pictures on 6×9 (B2) film, or 36 pictures 24×36 mm in size on 35 mm cine film. BELAR taking lens $f/3.5$, $F = 80$ mm, anastigmat viewing lens $f/3$, $F = 80$ mm, PRONTOR SVS central shutter adjustable to "B" time exposures and snapshots from 1 to 1/300 sec, central focusing. KOVO

33/054
Pioneer II

An inexpensive popular-type bakelite camera for beginners, for twelve 6×6 cm pictures on 6.5×9 cm roll-film or for sixteen 4.5×6 cm pictures when used with a 4.5×6 cm adapter. Six-focus lens. Flash-light connection. KOVO



33/055

33/055
Microma II

Full-automatic miniature-size camera for 50 pictures 11×14 mm in size on 16 mm film. Segment-shutter, adjustable to "B" time exposures and snapshots from 1/5 to 1/400 sec, film advance combined with simultaneous cocking the shutter by means of a lever, optical type open frame finder, flash-light connection, MIRAR lens $f/3.5$, $F = 20$ mm. KOVO

33/056
Magnola

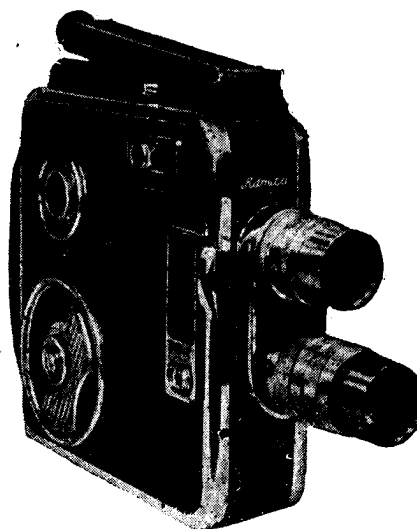
Folding camera designed for accurate, technical, scientific, etc., work, for pictures of architecture, for professional portrait photography, reproductions on dry plates or flat films up to a size of 13×18 cm. KOVO

33/057
Enlarger Lenses

BELAR, four-glass, three-element asymmetric semi-balsamed anastigmats in mounts with standard type or snap-in iris diaphragms. KOVO

33/058
Admira 8 E

Amateur-type motion picture camera for 2×8 mm film; MIRAR lens $f/2.8$, $F = 12.5$ mm, open frame finder with parallax compensation, frequency controller from 10 to 64 frames per second; with acoustic scene length checking, spring-type drive, release enabling normal filming and single-shots. KOVO



33/059

33/059
Admira 8 II

Design and appearance corresponding to that of the Admira 8 E, however, with a two-lens turret; standard type MIRAR lens $f/2.8$, $F = 12.5$ mm, TELE-MIRAR lens $f/3.5$, $F = 35$ mm.

Filters to the Admira 18 mm and 22 mm in dia

for correct transfer of colours to the grey shades scale. KOVO

33/060

Trigger-type Holder

to Admira cameras; enables the camera to be held firmly, makes filming easier and enhances the readiness-for-action of the camera. KOVO

33/061

Macro-Equipment 8 II

additional accessories to the Admira 8 II Motion Picture Camera for filming tiny objects and small-size titles; indicates the correct distance from the pattern and proper cutout of the shot.

Macro-Equipment 8 E

Similar accessories designed to the same purpose as the foregoing, however, intended for the Admira 8 E Motion Picture Camera. KOVO

33/062

Admira 16 A

A new motion picture camera for 16 mm film; for 30 mm film-rolls in day-light packing; battery-drive; one lens. KOVO

33/063

MEO 8 Projector

for home projection; simple and light-weight construction, case-type, 200—300 W projection bulb, POLAR projection lens, f/1.5, F=18 mm, for reels taking up to 120 m of film, voltage: 110 V and 220 V. KOVO

33/064

Editing Table 8 mm and 16 mm

case-type, for examining, rewinding and splicing of 8 mm or 16 mm film; fitted with film length counter and acoustic scene length checking. KOVO

33/066

Set of filters for the Microma

A leather case comprising a complete set of compensating colour filters for the Microma camera (G 1, G 2, G 3, GGR 1, GR 1, R 1, B 1, UV). KOVO

33/068

Reproducing Equipment for the Opemus II

Slit-focusing system easel with space for inserting a 6.5×9 cm magazine for reproducing of 6×6 cm pictures by

means of the Opemus II Enlarger on dry plates 6.5×9 cm or flat films 6×9 cm. KOVO

33/069

Set-up Shutter

Segment-type two-laminae central shutter, to be attached to lens mounts up to 38 mm in dia, with "B" and "T" time exposures; wire-release. KOVO

33/070

Short-type Tripod Reducing Sleeve

Reducing sleeve with thread for attaching the OPEMUS II enlargers to the photographic tripod while enlarging. KOVO

33/071

Meopar Objectives

five-lens three-element anastigmats. Also available for f/4.5 and focal distances of 180, 210 and 300 mm.

33/072

Slide Projector 11×14 mm

Small-size slide projector suitable for projecting of slides from pictures made with the Microma camera, adjusted to a size of 3×3 cm; 50 W bulb, 110 V. KOVO

33/073

Push-button Release

for wire release of the Flexaret IV and IVa reflex cameras; to be attached to the threaded nipple. KOVO

33/074

Base-board with Drawer

Polished-wood base-board 400×575 mm in size to the Opemus and Magnifax enlargers, with drawer for keeping sensitive paper or petty accessories. Dimensions: 318×426 mm. KOVO

33/075
Reproducing Equipment for
Magnifax II

Slit-focusing system easel with space for inserting a 6.5×9 cm magazine, for making reproductions and pictures by means of the Magnifax II Enlarger. The equipment incorporates also an easel with a nut for measuring, outlining and checking of the picture. KOVO

33/076
Masking Equipment for Exposure
Tests

Sliding equipment with a longitudinal cutout for exposure tests for both black-and-white and colour enlarging and for determining the suitable kind of filter for colour enlarging. KOVO

33/077
Macro-Adapter for Magnifax II

A short and a longer tube for extending the range of lens extension, for reproducing and making enlargements from tiny objects by means of the Magnifax II Enlarger. KOVO

Macro-Adapter for Opemus II

Accessories to the Opemus II Enlarger designed for making macro-pictures of tiny objects by means of the reproducing method. KOVO

33/078
Opemus Illuminator

A holder with two lamps connected by flexible tubes, to be attached to the stand with oblique-rod enlargers for illuminating of patterns and objects while reproducing and while making macro-pictures of tiny objects by means of the enlarger. KOVO

33/079
Magnifax Illuminator

A holder with two lamps connected by flexible tubes, to be attached to the rod stand, for illuminating of patterns and objects while reproducing and making macro-pictures of tiny objects by means of the Magnifax Enlarger. KOVO

33/080
Reproducing Equipment for the
Microma

Simple device for reproducing by means of the Microma camera; indicates the correct object distance and proper cutout of the shot. KOVO

33/081
Anamorphot

Auxiliary prism-system for wide-angle projection of 35-mm film with invariable anamorphosis. KOVO

33/085
Type 120 Rewinder

for quick rewinding of 8-mm and 16-mm films, with folding brackets for reels taking up to 120 m of film. KOVO

33/086
Condensers

two-glass condensers in mounts of various diameters.

33/087
Condenser Inserts

for inserting of smaller-size condensers into large size enlargers.

33/092
Cine projection lenses

POLAR, POLAR-SPECIAL and STIGMAR projection lenses to enlargers for use with 8-mm, 16-mm and 35-mm film, of various speeds and focal lengths. KOVO

33/094
Rewinders

for rewinding of 8-mm or 16-mm film. KOVO

33/095
"Trimat" Splicer

for splicing of three film dimensions, i. e. 8-mm, 9.5-mm and 16-mm; made from non-corrosive material. KOVO

33/096-097

Binoculars

for look-out, tourist and hunting purposes; suitable also for military use, for observing at sea, etc. KOVO

33/098

Universal Abbé Refractometer

for chemical analyses; consists of a telescope and a pair of compensating prisms.

Manual Refractometer I, II, III

for determining the percentage of sugar content in solutions, particularly for use in sugar industry (for determining the sugar content of sugar-beet). Suitable for use in fruit-tree culture when used with certain necessary supplements.

Immersion-type Refractometer

An instrument for measuring the refractive index of liquids in breweries and similar industrial works where it used as a substitute for lengthy chemical analysis. Measuring range from $nd = 1.32656$ to $nd = 1.37133$. KOVO

33/099

Auxiliary Lenses

to be slipped-over the lens in case shots within a distance smaller than 1 m are to be made. KOVO

33/100

DRUEX Photographic Camera

A bakelit camera, size 6×6 cm with a Druo all-metal shutter, exposure times 1/25, 1/50, 1/100, B with a three lens anastigmat of the DRUOPTAR type, lens speed $F = 1 : 6,3$, $f = 75$ mm.

33/101

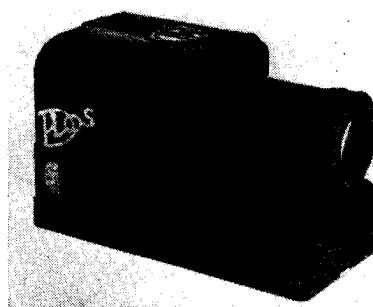
VEGA III

All-metal photographic film camera for 35 mm films, size 24×36 with Druoptar 3,5 objective, $f = 50$ mm, Chronotax shutter, 1/10, 1/25, 1/50, 1/100, 1/200, T, B.

33/102

Bakelite Photographic Camera

for 12 snapshots, size 6×6 , with an achromatic objective $1 : 8$, $f = 75$, 1/50, 1/100, diaphragm 8, 11, 16, 22.



33/103

33/103

Children Slide Projector

DIOS batteries used, for slide films 24×36 and 24×18 .

33/104

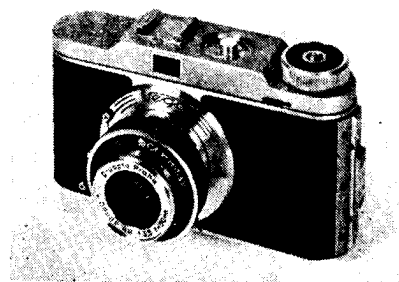
All-metal Slide Projector

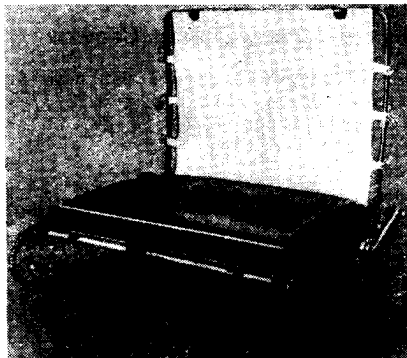
33/105

Double-sided Photographic Print Drier

type 2430 for amateurs. It is provided with two polishing sheets and a lead-in cable. Input 220 W.

33/101





33/106

33/106
Double-sided Photographic Print Drier

Type 660 for polishing and drying of photographs. Input 600 W.

33/107
EXPONET B 3 Exposure Clock

for determining of exposure time; when setting the switching button for the period from 3/10 to 6 seconds or for the period from 6 to 60 seconds.

33/108
Panoramatic Head

to be attached to a photo or cine tripod fitted with conventional threads 1/4" and 3/8", for panning the pictures.

KOVO

33/109
Interchangeable Eyepieces

Accessories for Admira users with defective sight; available up to plus or minus 3 diopters. KOVO

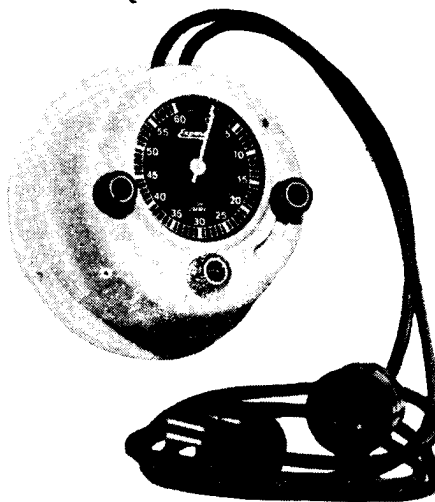
33/110
Securing Release

for the Admira for making single or continuous shots. KOVO

33/111
Exposimeters

An instrument for measuring the exposure time for both black-and-white and colour film; supplied with a case. KOVO

33/107



CZECHOSLOVAK ECONOMIC BULLETIN

informs commercial circles and persons interested in this line on the trade relations of the Czechoslovak Republic with all countries of the world and its building up. Published monthly by the Chamber of Commerce of Czechoslovakia.

34 SPORTING AND HUNTING ARMS

34/001

Slavia 603

calibre 4.5 mm for target practice and sport shooting at a range of 15 metres. Designed for Diabolo ammunition. - Weight 2.6 kg, length 1025 mm.

OMNIPOL

34/002

Slavia 608

calibre 4.5 mm for youths up to the age of 10 years for target practice and sport shooting. Weight 0.85 kg, length 780 mm.

PRAGOEXPORT

34/003

Slavia 612

calibre 4.5 mm for target practice and sport shooting for youths up to the age of 10 years at a range of 8 metres. Weight 1.2 kg, length 830 mm.

PRAGOEXPORT

34/004

Slavia 615

calibre 4.5 mm for target practice and sport shooting for youths from 10—12 years of age at a range of 10 metres. Weight 1.5 kg, length 880 mm.

PRAGOEXPORT

34/005

Slavia 618

calibre 4.5 mm for target practice and sport shooting for youths from 12—15 years of age at a range of 12 metres. Weight 1.55 kg, length 860 mm.

PRAGOEXPORT

34/006

ZV3

calibre 4.5 mm for target practice and sport shooting at a range of 10 metres. Weight 1.80 kg, length 949 mm, number of grooves 12.

OMNIPOL

34/007

ZV4

calibre 4.5 mm for target practice and sport shooting at a range of 10 metres. Weight 2.55 kg, length 1055 mm, number of grooves 12.

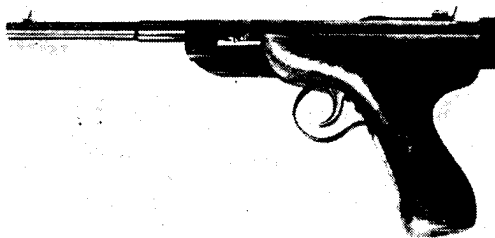
OMNIPOL

34/009

Sport Halfstock Model 47

for target practice and sport shooting with pellets of 4.45 mm in diameter at a range of 25 metres. Weight 3.45 kg, length 1080 mm.

OMNIPOL



34/010

34/010

ZVP Air Pistol

calibre 4.5 mm for target practice and sport shooting, particularly indoors, with Diabolo ammunition.

OMNIPOL

34/011

Air Rifle with a 30 Shot Magazine

single shot, break-type barrel, for target practice of adults, suitable for shooting of small vermin with 4.5 mm Diabolo ammunition.

OMNIPOL

34/012

Slavia 070 Alarm Starting Pistol

six shot, used for starting, for training of hunting dogs and watch dogs, for stage shooting and for psychological self-defence. It is designed for 6 mm Start cartridges. Weight 0.27 kg, length 100 mm.

OMNIPOL

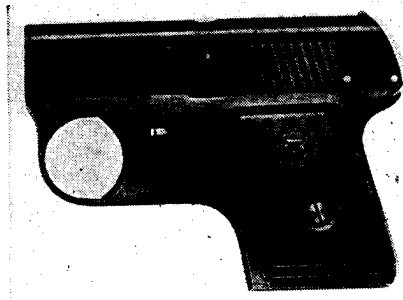
Automatic Pistols

34/013

ČZ 7.65, Model 50

with a magazine for 8 rounds. Weight 670 g, overall length 155 mm, length of the barrel 99 mm.

OMNIPOL



34/014

**34/014
CZ 6.35**

with a magazine for 8 rounds of 6.35 calibre for self-defence. It has the advantages of the revolver as well as of the pistol. Weight 430 g, length 128 mm.
OMNIPOL

**34/015
DUO 6.35**

is an up-to-date automatic weapon with a magazine for six rounds for self-defence. Manufactured in two colours: black and nickel plated. Weight 370 g, length 114 mm.
OMNIPOL

**34/016
ZKP 504 Target Pistol**

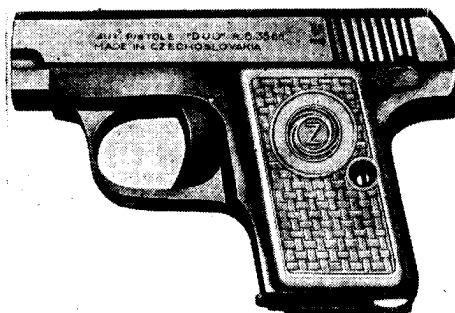
calibre 4 mm, single shot, break type for indoor shooting. Weight 780 g, length 270 mm.
OMNIPOL

**34/017
ZKP 541 Universal Automatic Pistol**

This pistol by exchanging of a few parts can be assembled either as a sport, target or a rapid fire pistol. Each type can be assembled to take a cartridge .22 long rifle, or five .22 short cartridges.
OMNIPOL

**34/018
Sport Smallbore Pistol .22 Long Rifle**

OMNIPOL



34/019

**34/019
Sport Smallbore Pistol .22 Short
OMNIPOL**

**34/020
ZKR 551 Revolver**

a six shot revolver, calibre 9 mm (38 SW) designed for accurate target shooting. Weight 1 kg, barrel length 152 mm.
OMNIPOL

Smallbore Rifles

**34/022
ZKM 452 (Brno 2)**

for sport and hunting (shooting of vermin). Magazine for 5 rounds .22 long rifle, on request a 10 round magazine can be supplied. Weight 3 kg, barrel length 630 mm.
OMNIPOL

**34/023
ZKM 456 (Brno 4)**

for .22 long rifle exclusively, is designed for contest and target practice shooting and equipped with telescopic sights. Weight 4.5 kg, overall length 1150 mm, barrel length 700 mm, sight length with the telescopic sight 825 mm.
OMNIPOL

**34/024
ZKM 468**

single shot, for hunting only, calibre 5.6 mm long rifle or 9 mm. Weight 2.10 kg, length 935 mm.
OMNIPOL

34/025

ZKM 561 Automatic Smallbore Rifle

a hunting gun with dynamic action, taking .22 long rifle cartridges. Box magazine for eight rounds. Weight 2.80 kg. *OMNIPOL*

34/026

ZKM 457 Smallbore Target Rifle

specially adjusted for contest shooting. It is designed according to international contest shooting regulations. Weight 6 kg. *OMNIPOL*

34/027-030

Double Barrelled Shotgun

Light, simple hunting gun with a reliable breech and a durable, trouble free firing mechanism for shooting small game with shot filled cartridges. Weight: Bore 16 2.80 kg, Bore 12 3.10 kg.

Supplied in the following types:

- ZP 45 bore 16 with extractor
- ZP 50 bore 16 with ejector
- ZP 47 bore 12 with extractor
- ZP 49 bore 12 with ejector

OMNIPOL

34/031

Over and Under Shotgun Bore 12

for hunting and sport shooting, a simple design of mutually independent barrels with the possibility of choke

34/035

ZG 47 Rifle

The receiver of the breech is provided with rails for mounting of OP × 4 or Lesar 3 × telescopic sight. This rifle is especially suitable for shooting of big and tropical game. It is produced in the following calibers: 7 × 57, 7 × 64, .270 W 30—06 (7.62 × 63), 8 × 57 S, 8 × 60 S, 8 × 64 S, 93 × 62, 5.6 × 61 von Hoffe. Weight 3.40 kg.

bore exchange, fitting of muzzle brake or a compensator. *OMNIPOL*

34/032

ZH 101 Over and Under Shotgun Bore 12

hunting and sport shotgun with two barrels placed over each other; both barrels have an exchangeable choke bore. Trigger mechanism has either one or two triggers. It is designed for hunting, battery or skeet shooting. *OMNIPOL*

34/033

ZKW 465 HORNET Smallbore Rifle

of great efficiency for hunting, particularly suitable for shooting of medium sized vermin with 5.6 × 36 R cartridges, 5 round magazine. Weight 2.85 kg, length 1040 mm. *OMNIPOL*

34/034

BRNO 21 Smallbore Rifle

designed exclusively for hunting, half stock, five round magazine. Produced in the following calibers: 6.5 × 57, 7 × 57, 7 × 64, 8 × 57 S, 8 × 60 S. Weight 3.10 kg, length 1065 mm. *OMNIPOL*

BRNO 22 Rifle

full stock, designed for hunting, otherwise the same execution as BRNO 21 rifle. Weight 3.27 kg, length 1065 mm. *OMNIPOL*

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CZECHOSLOVAK FOREIGN TRADE,

a periodical of the Chamber of Commerce of Czechoslovakia, regularly contains reports on traditional export articles as well as novelties of the Czechoslovak industrial production.

34/036

ZG 47 - light model

for cartridges of medium calibers:
6.5×57, 7×57, 7×64, 8×57 S, .270 W,
30-06. OMNIPOL



34/039

34/037

**ZG 47 T Olympia Champion
Target Rifle**

A heavy large caliber rifle for interna-
tional shooting contests — range 300 m.
The weight is adjustable in the range
from 8—9 kg. OMNIPOL

34/039

Cattle Slaughtering Apparatus

for killing of slaughtering animals.
OMNIPOL

34/038

**JAT 54-I Universal Slaughtering
Apparatus**

for safe and reliable stunning of
slaughtering animals. OMNIPOL

34/040

ZVK Clay Pigeon Trap

for skeet and battery contest shoot-
ing. Minimal range of the clay discs is
55 m. OMNIPOL

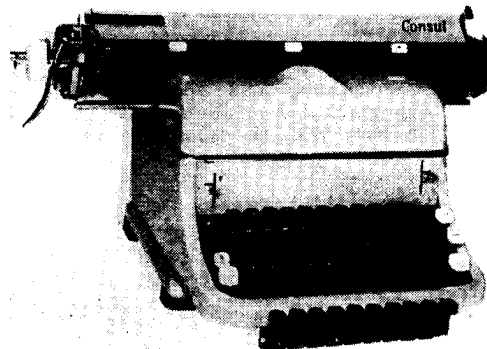
35 MECHANIZED OFFICE

35/001

CONSUL 1501-D Typewriter

Length of carriage: 18" (46 cm.). Stan-
dard PICA 1 or small ELITE types.
Standard column or decimal tabulators.
Keyboards for all world languages with
Roman, Russian or Greek letters.

KOVO



35/001

35/002

CONSUL 1502-B Typewriter

Length of carriage: 13" (32 cm.). Stan-
dard PICA 1 types with column tabula-
tor. Keyboards for all world languages
with Roman, Russian or Greek letters.

KOVO

35/003

CONSUL 1515 Portable Typewriter

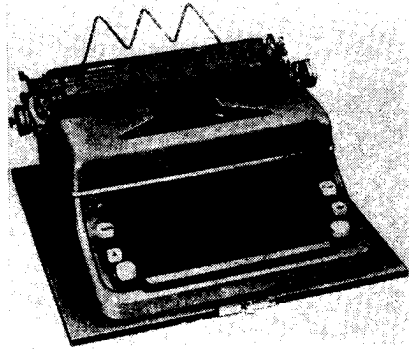
streamlined, with all functions of a
standard typewriter. Number of keys:
44. Weight: 9.5 kg. including case.

KOVO

35/004

CONSUL 1517 Typewriter

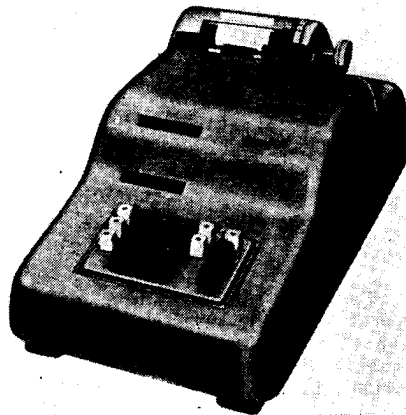
A simplified model of the portable
typewriter, without tabulator and with
one-colour ribbon and margin stops.
Number of keys: 42. KOVO



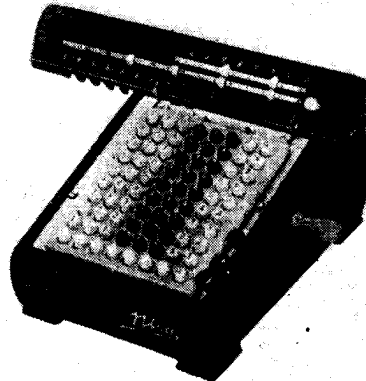
35/003



33/C04



35/005



35/007

35/005
CONSUL 1521 Electric Adding Machine

The keyboard contains mine keys. Direct subtraction. Minus totals are recorded in red. The check register enables to follow the calculating process. It checks the set figure before it is transmitted into the counter and recorded on the paper tape. Speed: 132 strokes per min. KOVO

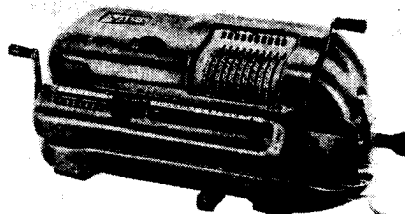
35/006
NISA "P" Calculating Machine

This hand lever (drum type) calculating machine has a capacity of $10 \times 8 \times 16$ with decimal places carried over in the proof register. KOVO

35/007
NISA "K" Calculating Machine

is a full column hand-calculator with a capacity of $8 \times 8 \times 16$. KOVO

35/006



35/008

NISA "EK" Calculating Machine

is an electrically operated full column keyboard calculating machine with a keyboard capacity of 8×8×16. KOVO

NISA "EK 1" Calculating Machine

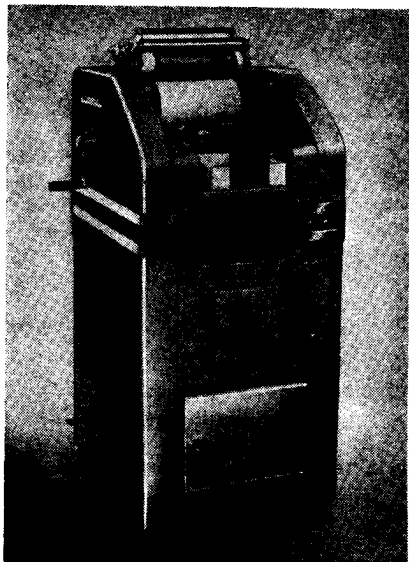
Electrically operated full column keyboard calculating machine with a keyboard capacity of 8×8×16.

NISA "K 1" Calculating Machine

Hand operated full column keyboard calculating machine with a keyboard of 8×8×16.

NISA "C"

hand operated device for simple calculations.



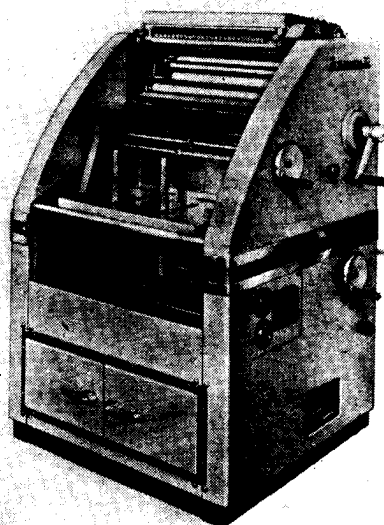
35/012

ROMINOR Offset Printing Machine

This offset printing machine operates on the principle of separation of water from grease. It is also suitable for multicolour prints. The positive image is transmitted from a metal sheet.

KOVO

35/012



35/013

35/013
ROMAYOR Offset Printing Machine

This electric offset printing machine operates on the principle of separation of water from grease. It is also suitable for multicolour prints. The positive image is transmitted from a metal sheet. KOVO

35/014

S-01 Phototype Machine

For multiplication of technical documentation such as drawings, plans, etc. made on tissue paper. Lighting set: Two arc lamps of 2 kW. Motor output 250 W.

35/023

MAGNETOFON Dictaphone

35/024

Reproduction and other machines

Phototypic process machine with 2 carbon filament lamps, ammonia developer, OPTIREX epidiascope, REF recorder, REPROSCOP reader, OP 5×5 dia-projector.

35/025
Office Machine Accessories

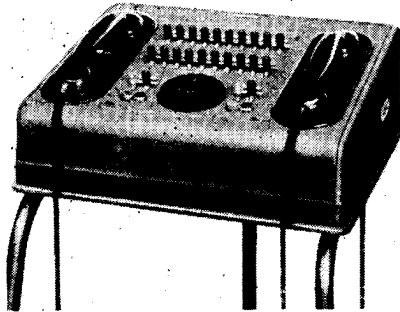
for typewriters, duplicating, printing and line drawing machines, dictaphones, statistical-counting and reproduction machines, etc.

35/026
Administrative Work Equipment

Horizontal, vertical, sorting and rotary filing cabinets, planning requisites, indexing equipment, horizontal letter-files, copying boards, office furniture.

35/027
Accessories of Administrative Work Equipment

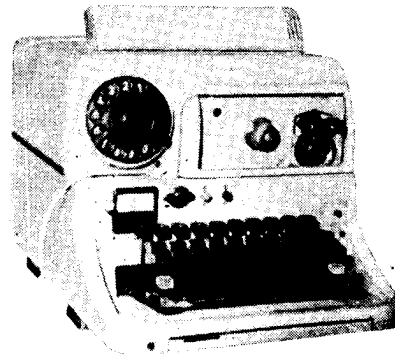
35/028
Punching Clocks



35/029

35/029
Dispatching Equipment

35/030
Office and Technical Requisites



35/031

35/031
Dalibor Teleprinter

enables the passing of news recorded on a tape according to new electric principles. The machine permits to receive or transmit by simple current. By means of a change-over switch it can be adapted to transmit or receive by double current, no auxiliary attachment being necessary. Weight: 22 kg. Dimensions: 316×437×230 mm.

Automatic Tape Transmitter

This special device ensures a smooth and uniform movement of the punched tape and a transmission speed of 100 Bauds. Size: 120×190×180 mm.

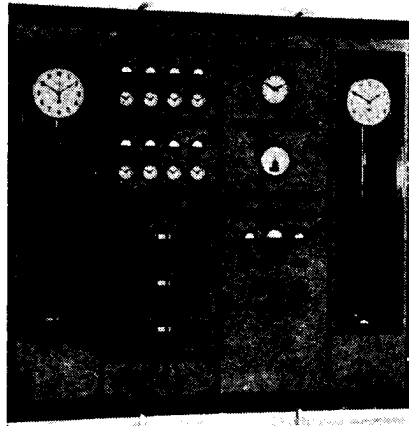
KOVO

From the periodical

CZECHOSLOVAK FOREIGN TRADE

you can learn about the products you have not seen at the exhibitions. The periodical appears three-times a year in six languages and contains information on the export products of all branches of the Czechoslovak industry.

36 ELECTRICAL CLOCKS



36/001

36/001 Large Automatic Clock and Signalling Station VUS-160

for use in large and extensive industrial plants and public clock systems. Up to 1100 other clocks can be connected to this station, which can readily be extended to receive multiples of that number of clocks. Maximum daily deviation = 12 seconds. Working voltage 24 or 60 V.

KOVO

36/002 Automatic Clock and Signalling Station MUS 40

is controlled by Master-Signalling-Clocks HSH-3 with a $\frac{3}{4}$ second pendulum. It contains various measuring instruments and a fault-signalling equipment. It is suitable for controlling 280 other clocks. Maximum daily deviation = 0.6 seconds. Working voltage 24 or 60 V.

KOVO

36/003 Master Signalling Clock HSH-3

suitable for controlling about 50 other clocks. Maximum daily deviation = 0.6 seconds. Working voltage 6, 12, 24 V.

KOVO

36/004 Master Clock HH-1

with a $\frac{3}{4}$ second pendulum without a signalling device. Up to 50 other clocks can be connected directly to the contact assemblage. Maximum daily deviation = 0.6 seconds. Working voltage 6, 12, 24 V.

KOVO

36/005 Signalling Clock SH-1

intended for acoustic signalisation mainly in schools. Maximum daily deviation = 0.6 seconds. Working voltage 6 V.

KOVO

36/006 Precision Master Clock HH-3

with one-second pendulum made of invar with thermal compensation; intended for offices, industries, research laboratories, radio, etc. Maximum daily deviation = 0.12 seconds. Working voltage 24 V.

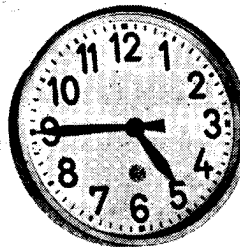
KOVO

36/007 Frequency Meter MF

for measuring the frequency of alternating-currents of 50 c/s in power stations, etc. Input of the F. H. P. motor abt. 5 W. Voltage 120 or 220 V A. C.

KOVO

36/008



36/008
Single-face Auxiliary Clock PJ 30

for installation in indoor localities, offices, shops, etc. Working voltage 6, 12, 24 or 60 V. *KOVO*

36/009
Double-face Auxiliary Clock PD 40

Application and working voltage as under item 36/008.

36/010
Double-face Auxiliary Clock PDK 60

for use in yards, streets, platforms of railway stations; mounted sideways to the wall. Working voltage 6, 12, 24 or 60 V. *KOVO*

36/011
Tower Clock B 2 e

with an automatic electric winding arrangement; striking full and half-hours. Maximum daily deviation \approx 0,6 seconds. *KOVO*

36/012
Shift Control Clock DK-3

the hands of which are advanced by the passage of polarized current impulses sent out every minute by a master-clock or clock station; this is a reliable device for checking precisely the working hours. Working voltage 6, 12, 24 or 60 V. *KOVO*

36/013
Hockey Measuring Set LH

for measuring the net time of an ice hockey match and for signalling goals on ice hockey play grounds. *KOVO*

36/014
Volley-Ball Measuring Set BS

for measuring the net time and signalling the last three minutes of the match, as well as for measuring the rest times. *KOVO*

36/015
Electrical Stop Clock RS-30

for rough measurements of time intervals (up to 30 minutes) in testing stations, shops, laboratories and radio studios. Accuracy of timings 0,3 seconds. Motor input 2,5 V. *KOVO*

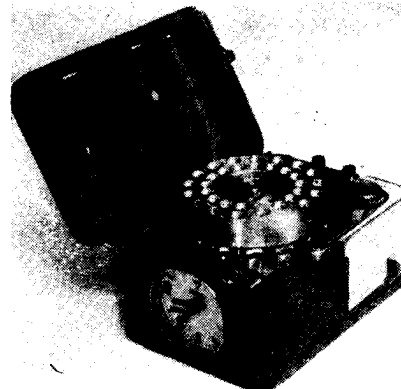
36/016
Electrical Car Clocks AH

for mounting into panels of motor vehicles. They are provided with an anchor movement and electromagnetic battery drive. Visible diameter of the face 2-9/16" (65 mm). Supply voltage of the electromagnet 6, 12, 24 V. *KOVO*



36/013

36/018



36/017
Clockworks for Recording
Instruments
RPM-93, RPM-171, RP-46, RP-120

provided for continuous recording of the individual measurements. KOVO

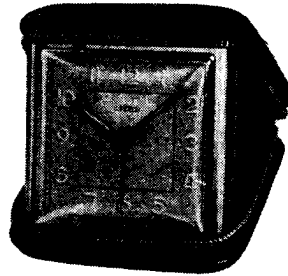
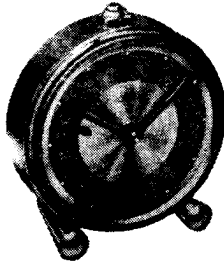
36/018
Pigeon Clock RHP

for recording the times of arrival of messenger pigeons. KOVO

36/019
Tower Clock Gear

Improved operation; precision self-compensating pendulum. Guarantee of correct operation.

37 CLOCKS AND ALARM-CLOCKS



37/001
Clocks and Alarm-Clocks

Various kinds of alarm-clocks, such as B-90 type alarm-clocks, miniature type alarm-clocks, style and travelling alarm-clocks, etc.

37/051
Clocks

Standard or striking kitchen wall-clocks, wall and mantle-piece clocks, striking clocks, etc.

37/101
Automobile Clocks for Scooters

37/111
SP 57 Switch for Washers

37/112
Automatic Switch 57

for ROMO automatic washing machines.

37/131
Metronom - A Music-Master's Requisite

37/141
Toys

All kinds of mechanical moving toys.

37/241
RZF and RZK Time Relays

for the protection of power installations. KOVO

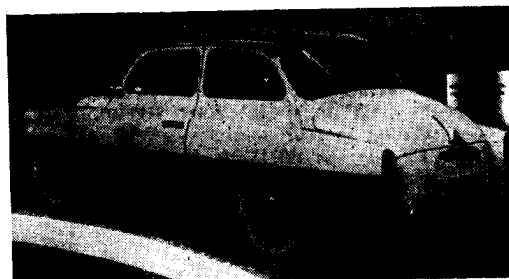
38 MOTOR CARS

38/001

Škoda 440 Export

Passenger car of lighter type; carrying capacity 350 kg or 770 lbs; fuel consumption 7 to 8 lt./100 km or 40.4 to 35.3 m. l. g.; travelling speed, level road 110 km. p. h. or 68 m. p. h.; four stroke, water cooled petrol engine; swept volume 1089 c. c. or 66.43 cu. in. power output 40 HP at 4200 RPM; battery ignition, 12 V. Overall dimensions: length 4065 mm or 13'4"; width 1600 mm or 5'3"; height 1430 mm or 4'8".

MOTOKOV



38/002

Škoda 440 Chassis

(for passenger car)

MOTOKOV

38/003

Škoda 1201 Ambulance

Powered with a water cooled, four stroke, four cylinder OHV petrol engine; swept volume 1221 c. c. or 74.48 cu. in.; engine front mounted; rear axle drive; fully enclosed, all metal body. Power output 45 HP. Peak speed 100 km or 62.1 m. p. h.

For transport of patients in a special compartment, separated from the driver; front compartment accommodates two persons, driver included; patient compartment with two stretchers and one seat. Overall length 4620 mm, 15 ft 2 in. Overall width 1690 mm, 5 ft. 6½ in. Overall height 1600 mm, 5 ft. 5 in. Curb weight 1220 kg, 2690 lbs. Permissible 10 ad 330 kg, 727 lbs.

MOTOKOV

38/004

All Purpose (Station Wagon)

For transport of a maximum of five passengers and light cargos; loading area can be increased by folding down rear seats, thus ensuring accommodation of two passengers including driver and 500 kg or 1100 lbs payload. Overall length 4360 mm, 14 ft. 3⅞ in. Overall width 1690 mm, 5 ft. 6½ in. Overall height 1650 mm, 5 ft. 5 in. Curb weight 1120 kg, 2690 lbs. Permissible cargo 650 kg, 1433 lbs.

MOTOKOV

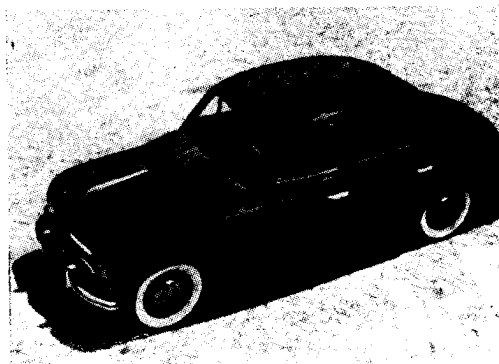
38/005

Delivery Van

38/001

For transport of two passengers including driver and 500 kg or 1100 lbs payload in special compartment. Overall length 4360 mm, 14 ft. 3⅞ in. Overall width 1690 mm, 14 ft. 6½ in. Overall height 1650 mm, 5 ft. 5 in. Curb weight 1100 kg, 2425 lbs. Permissible cargo 650 kg, 1433 lbs.

MOTOKOV



38/006

Škoda 1201 (Sedan)

38/006

Passenger car, four to five seater; fuel consumption 7.5 t, 9 t/100 km or 57.7 to 35.3 m. p. l. g., speed 115 to 120 km. p. h. or 71 to 74.6 m. p. h.; four stroke, water cooled petrol engine; swept volume 1221 c. c. c. or 74.48 cu. in.; power output 45 HP at 4200 RPM; battery ignition, 12 V. Overall dimensions: length 4500 mm or 19'9"; width 1690 mm or 5'6½"; height 1520 mm or 5'.

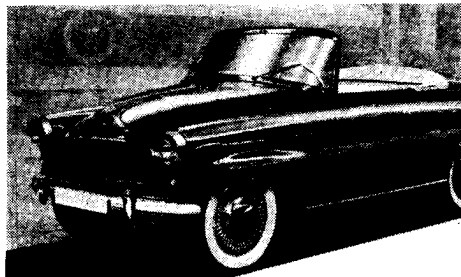
MOTOKOV

38/007

Škoda 450 Roadster-Convertible

A new type of sports car; fuel consumption 8.5 to 9 lt./100 km. or 33.2 to 31.4 m. p. l. g.; speed 130 km. p. h. or 80.8 m. p. h.; four stroke, water cooled petrol engine; swept volume 189 c. c. or 66.43 cu. in.; power output 50 HP at 5200 RPM; battery ignition, 12 V.

MOTOKOV



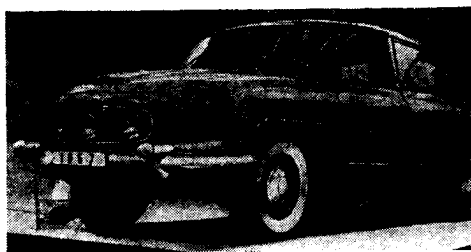
38/007

38/008

Tatra 603

Passenger car, six seater; fuel consumption 12-14 lt./100 km. or 23.5 m. p. l. g.; peak speed 160 km. p. h. or 99.4 m. p. h.; four stroke, air cooled, rear mounted petrol engine; swept volume 2545 c. c. or 155.245 cu. in.; power output 100 HP at 5000 RPM; four forward speeds synchro-mesh; tyres 6.50x15"; battery ignition, 12 V; curb weight 1478 kg or 3240 lbs.

MOTOKOV



38/008

38/009

Škoda 445

Škoda 440 passenger car powered with engine of 1221 c. c. or 74.48 cu. in.

swept volume; carrying capacity 350 kg or 770 lbs; fuel consumption 8,2 lt./100 km. or 35.7 m. p. l. g. peak speed, level road: 115 km p. h. or 71.2 m. p. h.; four stroke, water cooled petrol engine; power output 45 HP at 4200 RPM; battery ignition, 12 V. *MOTOKOV*

The ŠKODA and TATRA

automobiles have numerous advantages on which you will be informed by the CZECHOSLOVAK MOTOR REVIEW, Praha I, ul. 28. října 13.

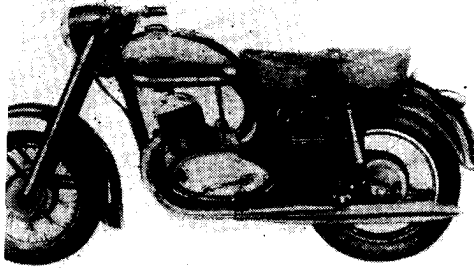
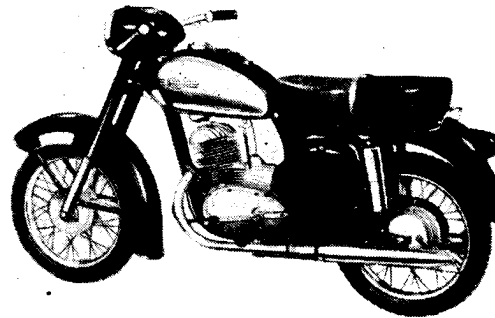
**39 MOTORCYCLES, MO-PEDS,
SCOOTERS, BICYCLES**

39/001

**Jawa-ČZ 125 c. c. (7.625 cu. in.)
Motorcycle**

Model 355; two stroke, single cylinder; power output 5.5 HP at 4750 RPM; peak speed 80 km. p. h. or 49.7 m. p. h.; fuel consumption 2 lt./100 km. or 141 m. p. I. g. at a speed of 50 km. or 31.1 m. p. h.; four-speed gearbox; automatic starting and gear shifting by means of a single common lever; swinging rear fork.

MOTOKOV



39/003

39/002

**Jawa-ČZ 175 c. c. (10.675 cu. in.)
Motorcycle**

Model 356; two stroke, single cylinder; power output 8 HP at 4750 RPM; peak speed 90 km.p.h. or 55.9 m.p.h.; fuel consumption 2.3 lt./100 km. or 122.6 m. p. I. g. at a speed of 50 km. or 31.1 m. p. h.; four speed gearbox; automatic starting and gear shifting by means of a single common lever; swinging rear fork.

MOTOKOV

39/003

**Jawa-ČZ 250 c. c. (15.25 cu. in.)
Motorcycle**

Model 353/04; two stroke, single cylinder; power output 12 HP at 4750 RPM; peak speed 105 km. p. h. or 65.2 m. p. h.; fuel consumption 3 lt./100 km or 94.2 m. p. I. g. at a speed of 50 km or 31.1 m. p. h.; four speed gearbox; starting and gear shifting by means of single common le-

39/002
ver; automatic clutch control; swinging rear fork.

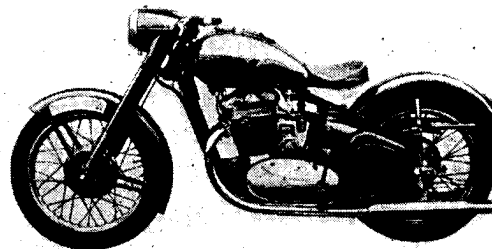
Model 353/04; differs from Model 353/03 by front fork of new design with another solution of hydraulic damping; intake silencer made of polyamide; machine fitted with amply dimensioned exhaust silencers of higher efficiency; Bowden cable casings fitted with adjuster screws on handle bars.

MOTOKOV

39/004

**Jawa-ČZ 350 c. c. (21.35 cu. in.)
Motorcycle**

Model 354/04; two stroke, twin cylinder; power output 16 HP at 4750 RPM; peak speed 120 km. p. h. or 74.6 m. p. h.; fuel consumption 3.25 lt./100 km or 86.76 m. p. I. g. at a speed of 50 km or 31.1 m. p. h.; four speed gearbox; starting and gear shifting by means of a single common lever; automatic clutch control; swinging rear fork.



Model 354/04; differs from Model 354/03 by front fork of new design with another solution of hydraulic suspension damping; intake silencer made of polyamide; machine fitted with amply dimensioned exhaust silencers of higher efficiency; Bowden cables have adjuster screws on handle bars.
MOTOKOV

39/005

Jawa-ČZ 500 c. c. (30.5 cu. in.)

Motorcycle

Model 15/02; four stroke OHC engine; power output 28 HP at 5500 RPM; peak speed 140 km. p. h. or 87 m. p. h.; fuel consumption 4 lt./100 km. or 70.6 m. p. l. g. at a speed of 60 km. or 37.3 m. p. h.; four speed gearbox; automatic clutch control; front fork with hydraulic suspension dampers; rear telescopic springing.
MOTOKOV

39/006

Sectional Views of Motorcycles in Motion

39/007

ČZ 125 Competition Motorcycle

Model 355, competition design; power output 6.5 HP at 5100 RPM; peak speed 85 km. p. h. or 52.8 m. p. h.
MOTOKOV

39/008

ČZ 175 Competition Motorcycle

Model 356, competition design; power output 10.5 HP at 5250 RPM; peak speed 105 km. p. h. or 65.2 m. p. h.
MOTOKOV

39/009

Jawa 250 c. c. (15.25 cu. in.)

Competition Motorcycle

Model 553, special design ("Six Days Trial"); power output 14 HP at 4750 RPM; peak speed 120 km. p. h. or 74.6 m. p. h.
MOTOKOV

39/010

Jawa 350 c. c. (21.35 cu. in.)

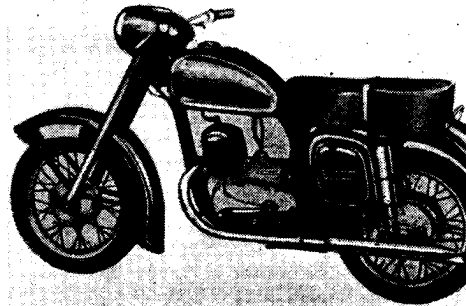
Competition Motorcycle

Model 554, special design ("Six Days Trial"); power output 18 HP at 5000 RPM; peak speed 130 km.p.h. or 80.8 m.p.h.
MOTOKOV

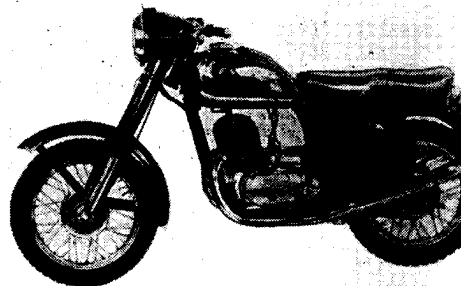
39/011

ČZ 125 Race Motorcycle

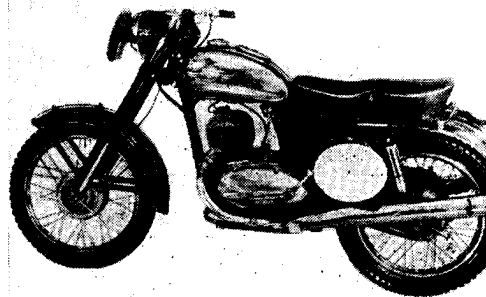
MOTOKOV



39/001



39/008



39/010

39/012

ČZ 250 Race Motorcycle

MOTOKOV

39/013

Jawa 350 Race Motorcycle

MOTOKOV

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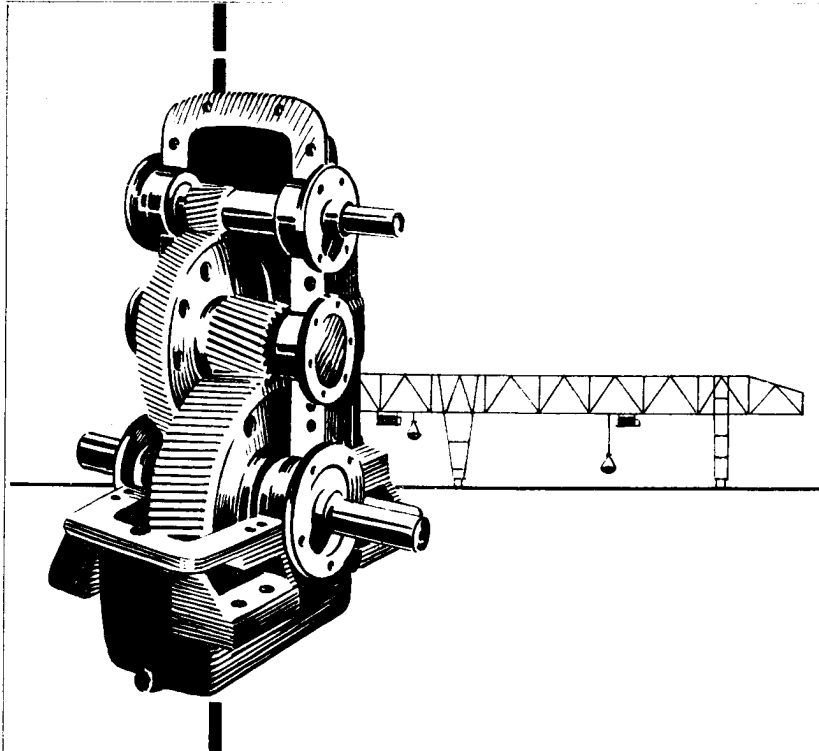
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39/014

Jawa 500 Race Motorcycle

MOTOKOV

39/015

Jawa-ČZ 250 c. c. (15.25 cu. in.)

Motorcycle

MOTOKOV

39/016

Jawa-ČZ 350 c. c. (21.35 cu. in.)

Motorcycle

MOTOKOV

39/017

VELOREX Sidecar Model 560 for

Jawa-ČZ 250 and Jawa-ČZ 350

Motorcycles

Frame of square section steel beams; wheel sprung and fitted with full-hub brake controlled simultaneously with motorcycle foot brake. Tyre 3.25—16". Body and mudguard of POLYTEX plastic.

39/018

VELOREX Sidecar Model 561 for Jawa-ČZ 500 Motorcycle

Frame of square section steel tubes; wheel sprung and fitted with full-hub brake operated simultaneously with motorcycle foot brake. Tyre size 3.25—19". Body and wing of POLYTEX plastic.

MOTOKOV

39/019

ČZ 175 c. c. (10.675 cu. in.)

Scoter

Model 501; two stroke, single cylinder; power output 8 HP at 4750 RPM; peak speed 80 km. p. h. or 49.7 m. p. h.; fuel consumption 2 lt./100 km. or 141 m. p. l. g. at a speed of 50 km or 31.1 m. p. h.; welded body of sheet steel; wheels interchangeable; tyres 12"×3.25"; curb weight of machine 132 kg or 291 lbs.

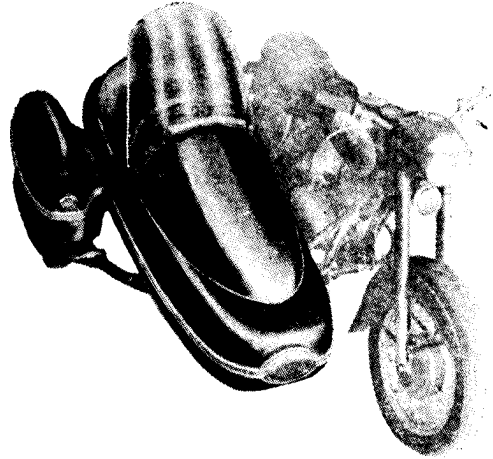
MOTOKOV

39/020

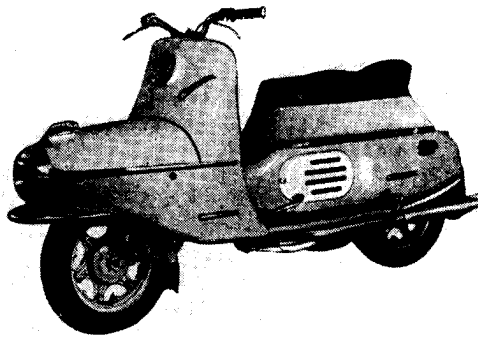
Jawa 50 c. c. (3.05 cu. in.) Mo-Ped

Model 551; two stroke, single cylinder; power output 1.6 HP at 5000 RPM; two speeds; gear change control mounted on handle bars; peak speed 45 km. p. h. or 28 km. p. h.; fuel consumption 1.6 lt./100 km or 177 m. p. l. g. at a speed of 20 km. or 12.4 m. p. h.; both front and rear wheel sprung by means of swinging fork.

MOTOKOV

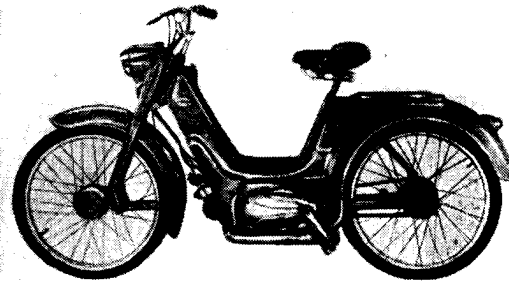


39/017



39/019

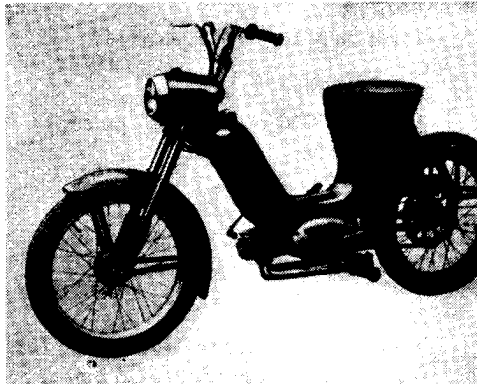
39/020



39/021

Tube-Type Mo-Ped S2

Type 552 Jawa c. c. or 3.05 cu. in. motorcycle with diagonal cylinder and pedals led out from cylinder block; front wheel sprung by means of swinging arm; both wheels have full-hub brakes. *MOTOKOV*



39/022

PIONÝR-JAWA 50

Model 555: Jawa 50 engine; firm rear wing connected to cowl; central drums and speedometer. *MOTOKOV*

29/023

**ESO 350 MC and ESO 500 MC
Cross Country Motorcycles**

For cross-country races. Exceptional stress and strain as well as high requirements regarding manoeuvrability and stability called for special development of frame. *MOTOKOV*

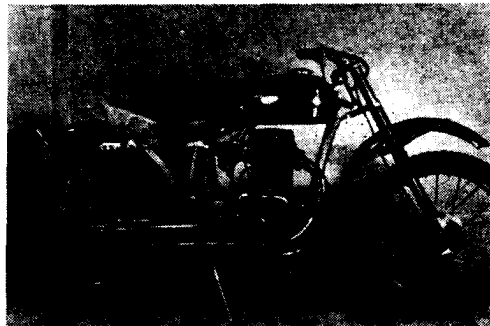
39/022

39/024

39/024

ESO DT 3 Dirt Track Motorcycle 1

Motorcycle frame of tubular construction; steering head reinforced; engine and two-speed gearbox mounted in chassis of sheet dural. Stroke 82 mm or 3.23", bore 88 mm or 3.46"; swept volume 498.56 c. c. or 40.41 cu. in. Fuel: methylalcohol; power output: 48.6 HP; speed: 7500 RPM. *MOTOKOV*



The JAWA-ČZ

motor-cycles participate in important contests and trials. Extensive reports on these events are to be found in the illustrated periodical CZECHOSLOVAK MOTOR REVIEW, Praha I, ul. 28. října 13.

40 MOTOR BUSES

40/001

Škoda 706 RTO Bus

New model of motor bus powered with four stroke, water cooled, six cylinder diesel engine; swept volume 11,781 c. c. or 718.64 cu. in.; direct fuel injection; power output 170 HP at/1900 RPM; fuel consumption 24 lt./100 km or 11.8 m. p. l. g.; permissible load 5800 kg or 12,786 lbs. Overall dimensions: length 10,840 mm or 35'7"; width 2500 mm or 8'2²/₃"; height 2980 mm or 9'9".

MOTOKOV

40/002

Škoda 706 RTO De Luxe Motor Coach

For 35 passengers; all-steel body; comfortable seats; large windows; perfect ventilation and heating. Š 706 RTO diesel engine; fuel consumption 24 lt. 100 km or 9.72 m. p. l. g.; peak speed 90 km. p. h. or 55.9 m. p. h.

MOTOKOV

40/003

Škoda 706 RTO Bus, Municipal Model

Š 706 RTO diesel engine; fuel consumption 27 lt. 100 km or 10.1 m. p. l. g.; speed 65 km. p. h. or 40.4 m. p. h.; pneumatic control of entrance and exit doors; 28 seats: 22 standing accommodations.

MOTOKOV

40/004

Škoda 706 RTO Motor Coach

Improved chassis model Š 706 RO; semi-structural, welded design; tyres 11.00—20 EHD; speed 86 km. p. h. or 53.43 p. m. h.; designed for 44 passengers.

MOTOKOV

40/005

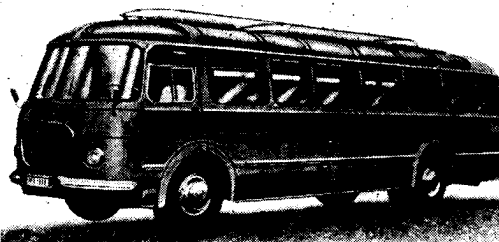
Škoda 706 RTO Chassis

Improved chassis derived from previous ŠKODA 706 RO model; for technical data see Škoda 706 RTO Bus.

MOTOKOV



40/001



40/002

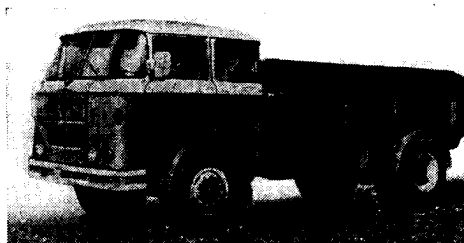


41 MOTOR TRUCKS

41/001

Škoda 706 RT Truck

Commercial vehicle with fuel consumption of 25 lt./100 km or 11.3 m. p. l. g.; speed 77 p. h. or 47.85 m. p. h.; Cargo platform 5000 × 2245 mm or 16'7" × 7'4²/₈"; height of side panels 500 mm or 20"; permissible cargo 8800 kg or 19,360 lbs. Fuel tank capacity 175 lt. or 38.5 l.g. MOTOKOV

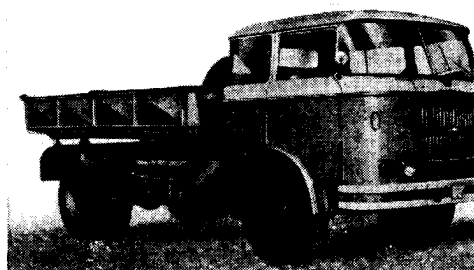


41/001

41/002

Škoda 706 RTS Tipper

Commercial vehicle powered with a four stroke, water cooled diesel engine with direct fuel injection; swept volume 11,781 c. c. or 718.64 cu. in.; power output 160 HP at 1900 RPM. Fuel consumption 26.5 lt./100 km. or 10.6 m. p. l.g.; peak speed 65 km.p.h. or 40 m.p.h.; Cargo platform 4000 × 2220 or 13'1¹/₂" × 7'3³/₈"; side panel height 450 mm or 18"; permissible cargo 7950 kg or 17,512 lbs; fuel tank capacity 175 lt. or 38.5 l.g. MOTOKOV

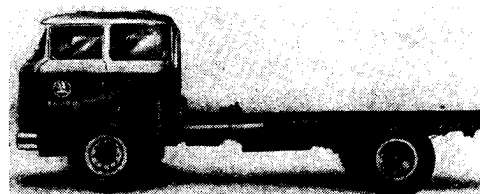


41/002

41/003

Škoda 706 RT Chassis

Four stroke, water cooled diesel engine with direct fuel injection; swept volume 11,781 c. c. or 718.64 cu. in.; Power output 160 HP at 1900 RPM. Foot operated pressure air brakes for all four wheels; hand operated mechanical brake acting on rear wheels; engine brake. Tyres 11.00—20 EHD; rear tyres dual. MOTOKOV

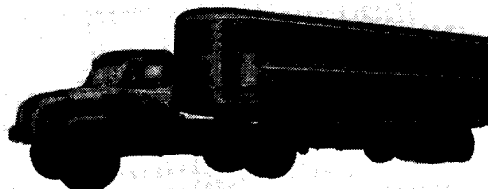


41/003

41/004

N 1 OCH Refrigerator Trailer for T 137 Tug

Serves for brief emergency transport in tow by tractor or truck. Refrigerator volume 8725 × 1980 × 1900 mm or 28'8" × 6'6" × 6'2"; permissible cargo 10,000 kg or 22,023 lbs; weight of set 23,300 kg or 51,305 lbs; overall length 13,425 mm or 44'. MOTOKOV

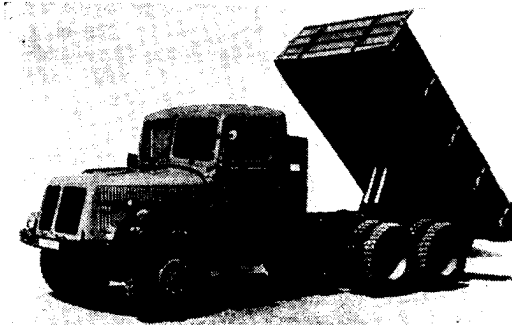


41/004

41/005

Tatra 111 S 2

Motor tipper of 10 metric tons or 22,000 lbs capacity; steel tipper platform tipping either side or rearwards. Short wheelbase enables easy manoeuvring in limited space. Tipper platform operated by means of two telescopic ram cylinders. Weight 9460 kg or 20,855 lbs. Carrying capacity 10,000 kg or 22,046 lbs. Peak speed (at 1800 RPM) 61.5 km. p. h. or 38.2 m. p. h.. Fuel consumption at a speed of 46 km or 28 m. p. h : 34 lt./100 km. or 8.31 m. p. l. g. *MOTOKOV*

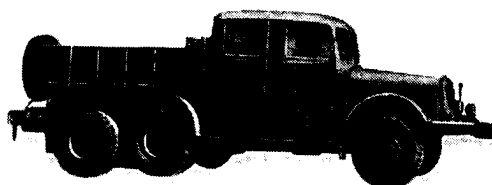


41/005

41/006

Tatra 141

High efficiency tractor for transportation of heavy, voluminous cargoes loaded on undercars, up to 100 metric tons or 220, 460 lbs weight. The cabin is fitted with eight seats and a radio receiver. The tug has a sturdy power winch driven by the vehicle engine and strong coupling devices both front and rear for pulling or pushing heavy trailers. Weight (unloaded) 12.400 kg or 27.336 lbs. Weight (5500 kg or 12.125 lbs cargo and crew included) 18.240 kg or 40.212 lbs. Maximum permissible trailer weight 100.000 kg or 220.460 lbs. Peak speed 37.6 km. p. h. or 23.32 m. p. h. Tatra 111 A-5 engine. Maximum power output 185 HP. *MOTOKOV*

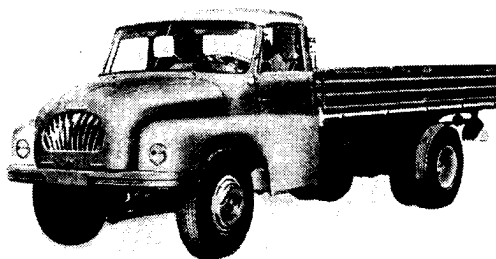


41/006

41/007

Tatra 137

Modern, fast commercial vehicle of 7.2 metric tons or 15,872 lbs carrying capacity; for road and off-road transport of piece cargos; powered by Tatra 928 engine. Weight 5450 kg or 12,015 lbs; carrying capacity 7200 kg or 15,872 lbs. Peak speed 100 km. p. h. or 62.1 m. p. h. Average fuel consumption approximately 22 to 24 lt./100 km or 12.8 to 11.8 m. p. l. g. Pull on coupling pin 5800 kg or 12,786 lbs. *MOTOKOV*



41/007

41/008

41/008

Tatra 137 S 1

Motor tipper with steel tipper platform of 3.5 m³ or 123.6 cu. ft. capacity; tipping rearwards; for heaviest jobs in building plots, quarries, surface mines etc. Weight 6500 kg or 14,330 lbs;



carrying capacity 7000 kg or 15,432 lbs.
Peak speed 90 km. p. h. or 55.9 m. p. h.
Maximum tipping period 10 seconds.

MOTOKOV

41/009

Tatra 138 A

Modern three-axle truck of 12 metric tons or 26,455 lbs carrying capacity; powered with Tatra 928 eight cylinder diesel engine. Engine design similar to that of model 137; performance higher. Weight 8000 kg or 17,637 lbs. Carrying capacity 12,000 kg or 26,455 lbs. Peak speed 72 km. p. h. or 44.74 m. p. h. Pull on trailer coupling hook 10,250 kg or 22,597 lbs.

MOTOKOV



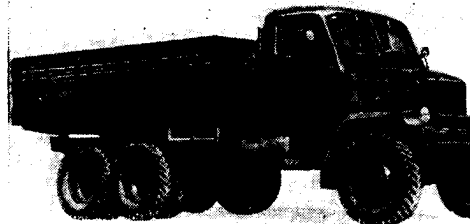
41/009

41/010

Tatra 137 NT

Tug (transport tractor) for towing two-wheel trailers for transport, refrigerator, furniture moving, passenger transport, etc. purposes; payload approximately 10 to 15 metric tons or 22,000 to 33,000 lbs. Trailer coupling pin controlled electro-pneumatically from driver's cabin. Weight 5550 kg or 12,235 lbs. Peak speed 90 km. p. h. or 55.9 m. p. h.

MOTOKOV



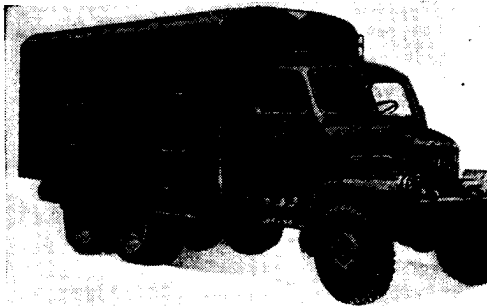
41/010

41/011

Praga V 3 S

Commercial vehicle for heavy duty service under the most adverse conditions. Carrying capacity: 5000 kg + 5500 kg trailer or 11,023 + 12,125 lbs trailer on roads; 3000 kg + 3100 kg trailer or 6614 + 6834 lbs trailer off-road. Trailer weight can be temporarily increased to 7500 kg or 16,534 lbs. on gradients up to 5% (max. distance 20 km or 12.4 m). Weight 10,850 kg or 23,456 lbs. Three drive axles (front wheel drive controllable); 2x4 forward speeds, 2 reverse. T 912 four stroke, air cooled, six cylinder in-line diesel engine; bore 110 mm or 4.33"; stroke 130 mm or 5.12"; total swept volume 7412 c. c. or 452.132 cu. in.

MOTOKOV



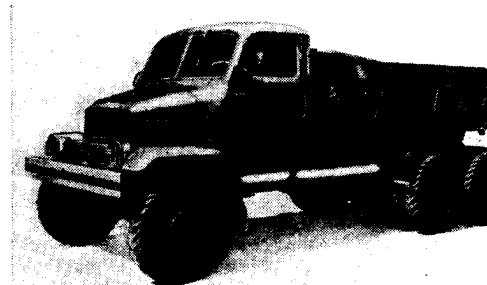
41/011

41/012

41/012

Praga V 3 S Van

Serves mostly as mobile workshop. Fully enclosed van body. Walls and roof fitted with heat- and noise deadening insulation. Ventilation by means of intake air blower. Heating unit



mounted on LH rear side. Electrical equipment 12 V; 220/380 V available.

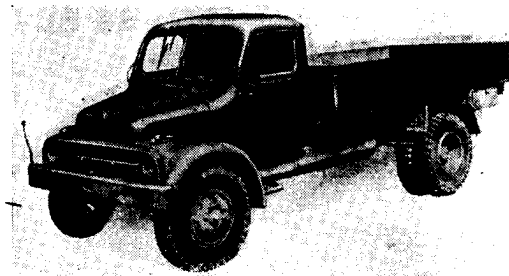
MOTOKOV

41/013

Praga V 3 S Tipper

For heavy duty earth jobs. Metal tipper platform of 2.6 m³ or 91,816 cu. ft. capacity for operation under excavator. Maximum tipping angle 600 rearwards within 8 to 10 seconds combined with automatic control of tailgate ensures the highest efficiency. Carrying capacity 4650 kg or 9589 lbs; weight 10,430 kg or 22,993 lbs. The remaining main data and equipment equal those of V 3 S Truck.

MOTOKOV



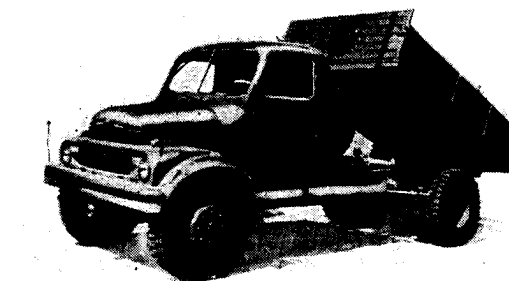
41/014

41/014

Praga S 5 T

All purpose commercial vehicle. Carrying capacity: 5000 kg + 7500 kg trailer or 11,023 + 16,534 lbs trailer. Weight 9730 kg or 21,450 lbs. T 912 four stroke, air cooled six cylinder in-line diesel engine. Bore 110 mm or 4.33"; stroke 130 mm or 5.12"; swept volume 7142 c. c. or 452,132 cu. in. Maximum power output 100 HP/2100 RPM. Fuel consumption 180 gr./HP h or 6.37 oz. HP/h.

MOTOKOV



41/015

41/015

Praga S 5 T Tipper

Tipper platform of resilient construction and 3.25 m³ or 114.77 cu. ft. capacity ensures speedy operation. Carrying capacity 4500 kg or 9920 lbs; Weight 9650 kg or 21,274 lbs. The remaining data equal those of S 5 T Truck.

MOTOKOV

41/018

Škoda 706 RTTS Tug

Road type for towing two wheel trailers: furniture van, refrigerator van, ambulance, mail van and other purpose trailers. Tug is powered with S 706 RTO engine (same as motor coach).

MOTOKOV

41/016

Praga S 5 T Truck

For data see S 5 T.

MOTOKOV

41/017

Praga V 3 S Chassis

Dats equal those of Praga V 3 S Truck For technical service.

MOTOKOV

41/019

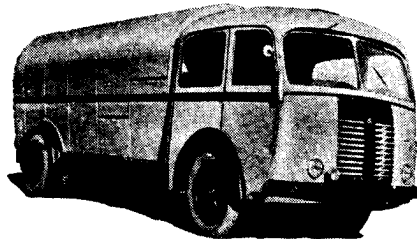
Škoda 706 RT Truck with RH Steering

MOTOKOV

The ŠKODA and TATRA

automobiles have numerous advantages on which you will be informed by the CZECHOSLOVAK MOTOR REVIEW, Praha I, ul. 28. října 13.

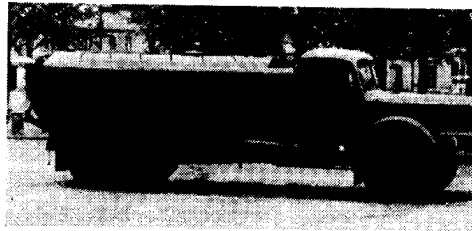
42 SPECIAL CARS



42/001

42/002
Š 706 AKVMRT Municipal Sprayer

A new model. Technical data identical to those of ŠKODA 706 RT Truck.
MOTOKOV

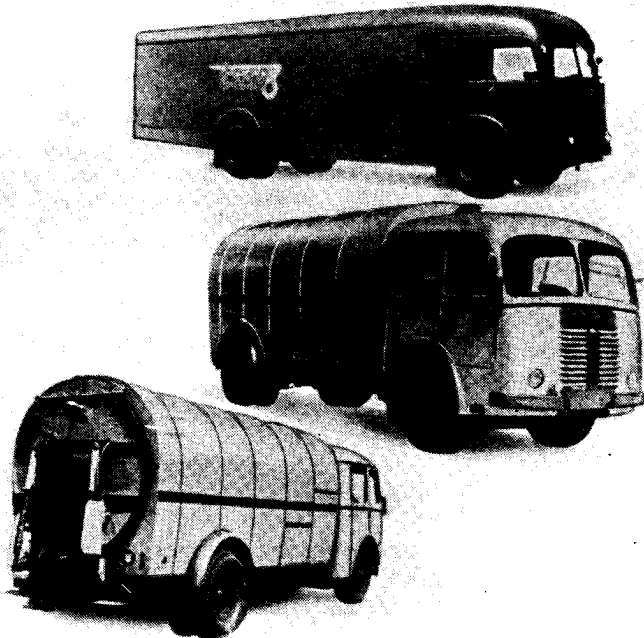


42/001
Š 706 ROK-KUKA Dust Bin Collector

Cabin accommodating 6 persons; automatic control and locking of rear cover by means of pressure air; operated from driver's cabin. Dust bin shaker has a sprung flap ensuring opening of the bin without damage when emptied. Capacity 10 cu. metres of loose refuse.
MOTOKOV

42/004
V 3 S Liquid Refuse Tanker

Mounted on PRAGA V 3 S chassis, serves for pumping and transport of badly contaminated liquids. The vehicle can also operate in off-road terrain with the cargo reduced. Weight 10,650 kg or 23,480 lbs.
MOTOKOV



43 SERVICE VEHICLES

43/001

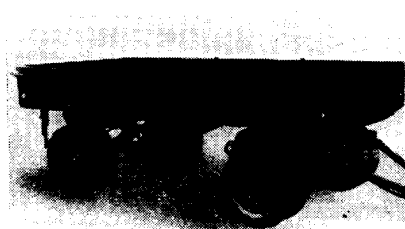
A 3 Traller

(3 metric tons or 6600 lbs capacity).
MOTOKOV

43/002

A 5 Trailer

(5 metric tons or 11,000 lbs capacity).
MOTOKOV



43/003

Trailer-Tanker

MOTOKOV

43/002

43/004

A 5 Tipper Trailer

(5 metric tons or 11,000 lbs capacity).
MOTOKOV

43/006

DA Trailer

MOTOKOV

43/005

A 10 Trailer

(10 metric tons or 22,000 lbs capacity).
MOTOKOV

43/007

DT 7 Trailer

MOTOKOV

44 TRAILERS

44/001

Service Shop Trailer

for passenger cars and motorcycles.
MOTOKOV

MOTOKOV

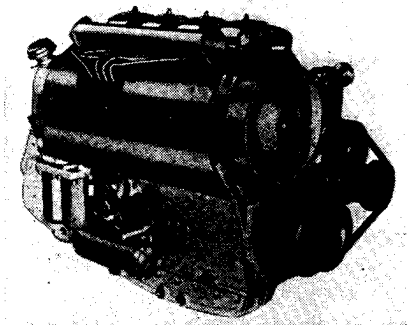
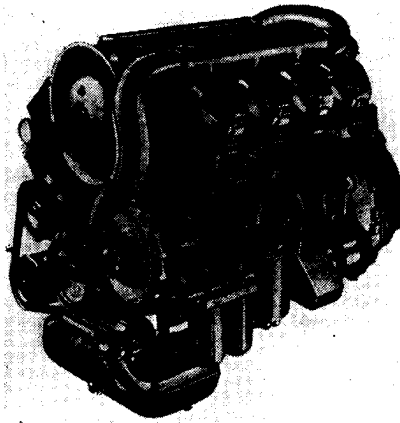
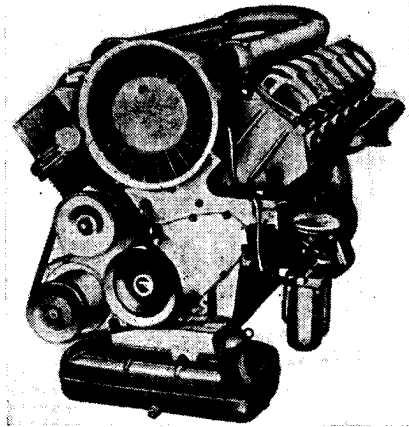
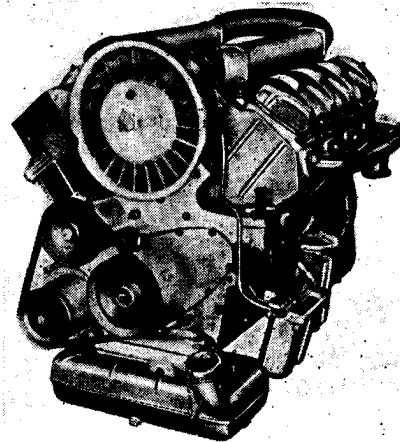
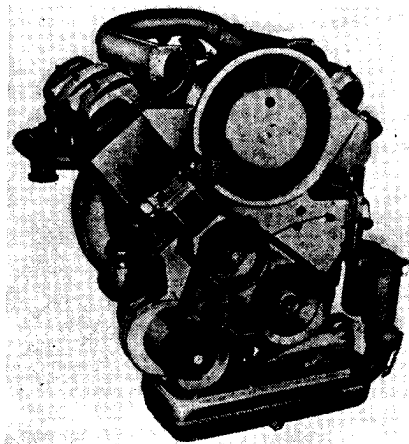
44/002

Service Shop Trailer

44/003

Service Shop Trailer

for spark plugs. MOTOKOV



46 MOTOR VEHICLE ATTACHMENTS

46/001

Fuel Injection Equipment

PC fuel injection pumps c/w nozzle holders and nozzles of corresponding size; PV fuel injection pumps with speed governors; nozzle holders c/w nozzles; CD fuel transfer pump; fuel filters; nozzle tester. *MOTOKOV*

46/002

NC Test station

MOTOKOV

46/003

Carburettors

Downdraught, horizontal, vertical; fuel transfer pumps; JIKOV MONOBLOK power carburettors. *MOTOKOV*

46/004

Gauging Table for Carburettor

Jets

MOTOKOV

46/005

Spark Plugs

Full range of all purpose plugs: heater plugs; spark plugs for racing machines; plugs for power plants; plug production process. *MOTOKOV*

46/006

Service Appliance

for testing and adjustment of spark plugs and ignition systems of petrol engines. *MOTOKOV*

46/007

Brake Systems

Hydraulic and pressure air brakes; pressure air stop light switch; glass fluid reservoirs; master brake air-pressure cylinder and single stage wheel brake cylinder. *MOTOKOV*

46/008

Shock Absorbers

For cars, commercial vehicles, motorcycles; tester for shock absorbers; telescopic suspension with hydraulic suspension damper for motorcycles. *MOTOKOV*

46/009

Horns

Electric and pneumatic.

MOTOKOV

46/010

Independent Bus Heaters

MOTOKOV

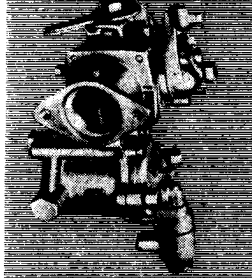
46/011

Sundry Accessories

Speedometers for motorcycles, cars and commercial vehicles; steering wheels for cars and commercial vehicles; switch box for motorcycles; ammeters; temperature gauges; starter motors; windscreen wipers with automatic full travel; wiper drives; wiper blades, RH and LH; junction boxes; fuse boxes; cut-out switches; change over switches; buttons; warning lamps; trafficator switches; plugs and sockets; pressure switches; commutators; Š 440 dashboard and T 603 dashboard. *MOTOKOV*

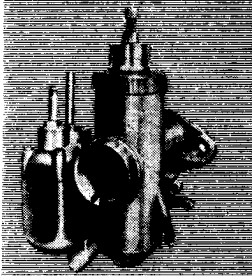
Ignition distributors; ignition coils; 6V coils for motorcycles; starter motor, 150 mm or 5.91" dia., with retractable armature; starter motor, 125 mm or 4.92" dia., with retractable drive pinion; regulator coils; flywheel magnetos; magnetos for single cylinder and twin cylinder engines; starter-dynamo for motorcycles and scooters; rheostat; battery cut-out and change-over switch; heater plug switch; starter dynamo for aircraft motors. *MOTOKOV*

Heater unit for Škoda 440; air cleaner for Škoda 440; air cleaner for V3S; T 805; 706; air cleaner for motorcycles (prefilter with intake silencer). *MOTOKOV* number plate and tail lamps; dome lamps; built-in headlamps; motor car headlamps; built-in motorcycle headlamps; trafficator lamps; fog lamps; inspection lamps; folding lamps; seat lamps and radiators for motor vehicles. *MOTOKOV*



46/012
Accessories

Jerry-cans: 7, 10 and 15 litres or 1.54, 2.2 and 3.3 I. g. *MOTOKOV*



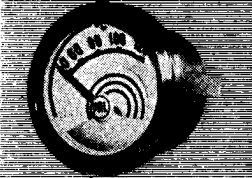
46/014
Various Storage Batteries
for Motor Cars, Trucks and Motor-
Cycles

46/015
Magnetic Drain Plug (Magnet
Filter)

for motor vehicles for draining of crankshaft and differential housing.

46/016
Air Pressure Gauge

for measuring air pressure in tyres. Two types, up to 4 atm. with a short endpiece for passenger cars and up to 8 atm. with a long end piece for lorries.



46/018
Mobile High Pressure Greasing
Gun

with a flexible, pressure proof armour hose.

46/018
Mobile Auto Jack

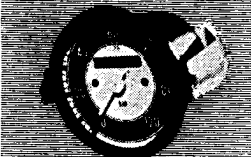
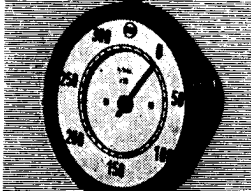
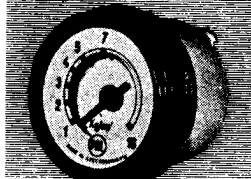
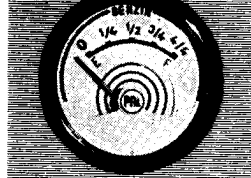
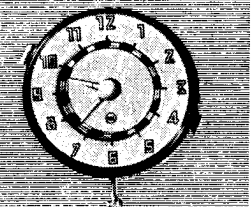
length 1300mm, lifting capacity 3000 kg, lowest position 145 mm, highest 450 mm.

46/019
Oil Filter

consisting of an insert mounted elastically in a strong cylinder closed with a cover.

46/020
Lead Batteries (Motor car
batteries)

(Motor car batteries.)
5 types 6 V and 5 types 12 V.



46/021
Mobile Oil Filling Apparatus

for filling of differential housing and gearboxes. Capacity 20 litres of oil or vaseline for differential housings or gearboxes.

46/022
Motor Car Lights

for mudguards, parking lights, stop lights, traffic, tail lights.

46/023
Pull Switch

for switching on of various low voltage appliances for mounting on the motor car dashboards.

46/024
Chisels of all kinds.

46/025
Clock shaped Air Pressure Gauge

with an end rubber hose for motors cars from 3,5 to 8 atm. in an attractive igelite case.

47 BICYCLES

47/001
Touring Bicycles (44 Exhibits)

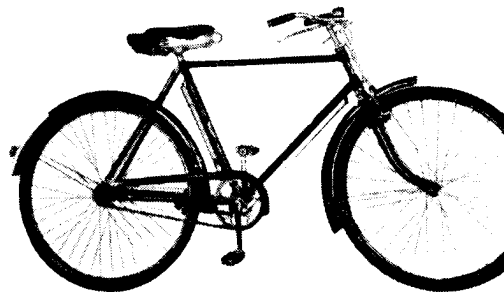
Models: Tp E3; Td E3; Tp 4; Td 4; Tp 5; Td 5; Td 6; Tp 11; Td 11; Tp E9; Td E9; Tp L9. *MOTOKOV*

47/002
Sports Bicycles (36 Exhibits)

Models: Sp E6; Sd E7; Sp 8; Sp 18; Sp 16; Sd 17; FS and F 20. *MOTOKOV*

47/003
Racing and Special Purpose Bicycles (18 Exhibits)

Models: F 11; F 1; F 22; K 2; B 2; M 1; F 2 and tandem. *MOTOKOV*



47/004
Baby and Junior Bicycles (48 Exhibits)

Models: Sp E 10; Sd E 10; Tp 12; Td 12; DN 1; PE 2; PE 3; PL 1; PL 2 and latest models: Sp 250; Sp 255; Sd 250. *MOTOKOV*

47/001

48 BICYCLES SPARE PARTS

48
Spare and Replacement Parts and Accessories for All Types of Bicycles

MOTOKOV

49 TRACTORS

49/001 Zetor 25 A

All purpose farm tractor; four stroke, twin cylinder diesel engine. Swept volume 2.08 litres or 126.88 cu. in.; fuel consumption when ploughing approx. 4.5 lt./h or 1 Imp. gall./h. Power output 26 HP at 1800 RPM. Six forward speeds stepped up from 3.7 km. p. h. up to 28.3 km p. h. or from 2.3 m. p. h. up to 17.55 m. p. h. *MOTOKOV*

49/002 Zetor 25 A

All-purpose farm tractor fitted with driver's cabin. *MOTOKOV*

49/003 Zetor 25 A

Fitted with hydraulic power lift and drawbar for two-wheel trailers. *MOTOKOV*

49/004 Zetor 25 A

With hydraulic power lift and three point linkage. Hydraulic lift controls mounted ploughs, cultivators, hoes, hillers, etc. *MOTOKOV*

49/005 Zetor 25 A

without hydraulic power lift. Fitted with bottom swinging drawbar and air brakes for braking trailers. *MOTOKOV*

49/006 Zetor 25 A

With hydraulic power lift, lifted tie-rods and unsprung three position drawbar; suitable for two wheeled trailers. *MOTOKOV*

49/007 Zetor 25 A

Without hydraulic power lift. Steel wheels, without electrical equipment. Tropical design. *MOTOKOV*

49/008 Zetor 25 A

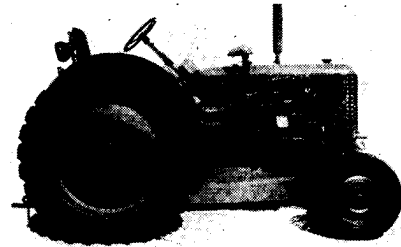
With hydraulic power lift and hydraulic overload release for engine clutch which is automatically released when the implement encounters a submerged rock. Three position drawbar serves for coupling trailers. *MOTOKOV*

49/009 Zetor 25 A

With hydraulic power lift, tyre inflating compressor, hydraulic lock and position drawbar. *MOTOKOV*

49/010 Zetor 25 A

Without hydraulic power lift, with cab and air brakes for braking trailers. Top drawbar with sprung coupling yoke for trailers and bottom swinging drawbar. *MOTOKOV*



49/011—012

49/011-012 Zetor 25 K

Designed mainly for row crop and cultivation jobs. Four stroke twin cylinder diesel engine; power output 24 HP at 1600 RPM. Swept volume 2.08 litres or 126.88 cu. in. Fuel consumption when ploughing 4 lt./h. or 3.52 Imp. quarts/h. Six forward speeds stepped up from 4.0 up to 18.6 km. p. h. or from 2.49 up to 11.55 m. p. h. Two reverse: 2.7 and 6.3 km. p. h. or 1.68 and 3.89 m. p. h. Electrical equipment: 12 V. *MOTOKOV*

49/013
Zetor 25 K

with hydraulic power lift, bottom swinging drawbar and 13.00—28" rear tyres. Hydraulic power lift controls mounted ploughs, cultivators, hoers, hillers, etc.
MOTOKOV

49/014
Zetor 25 K

(standard attachments).
Top drawbar with sprung coupling yoke; bottom drawbar; rear wheel tyres 9.00—36".
MOTOKOV

49/015
Zetor 25 K

Without hydraulic power lift, with upper drawbar, bottom swinging drawbar; rear wheel tyres 9.00—36".
MOTOKOV

49/016
Zetor 25 K

with hydraulic power lift, drawbar for two-wheel trailers and rear wheel tyres 13.00—28".
MOTOKOV

49/017
Zetor 25 K

with hydraulic power lift, horizontal exhaust, 3-position drawbar for coupling trailers and 13.00—28" rear wheel tyres.
MOTOKOV

49/018
Zetor-Super

without hydraulic power lift. For technical data see Zetor-Super with hydraulic power lift.
MOTOKOV

49/019
Zetor-Super

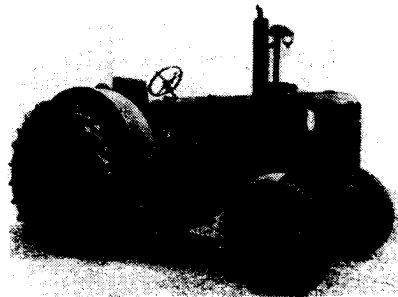
with hydraulic power lift. Wheeled tractor frameless design; four cylinder in-line diesel engine with direct fuel injection; swept volume 4160 c. c. or 253.76 cu in. maximum power output 42 HP at 1500 RPM; maximum permanent power output 38 HP at 1300 RPM. Tyres: front 6.00—20", rear 13.00—28".
MOTOKOV

49/020
Zetor-Super

with power winch, protective net and short mudguards. Power winch of single-drum type; single speed, overload release, brake and automatic cable winder.
MOTOKOV

49/021
Zetor-Super

without hydraulic power lift. With pressure air brakes and driver's cabin; suitable for road transport purposes.
MOTOKOV



49/022

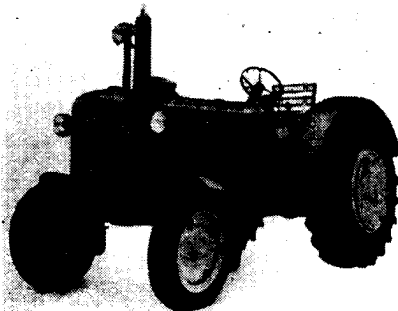
49/022
Zetor-Super

with dual rear wheels for rough land service.
MOTOKOV

49/023
Zetor-Super

With front mudguards without speedometer.
MOTOKOV

49/019



49/024
Zetor-Super

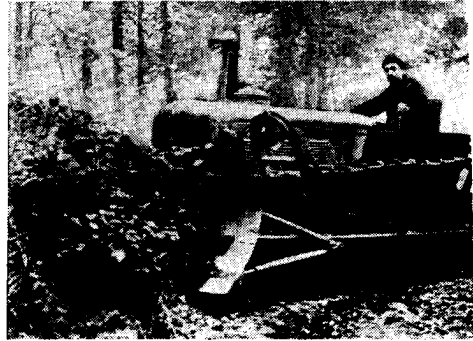
with additional weights of 800 kg or 800 kg or 1764 lbs; pull on hook increased to 2000 kg or 4400 lbs.
MOTOKOV



49/025

49/026
Zetor Super P

Tracklayer tractor of frameless design for any kind of farm, forest and building industry job.
MOTOKOV

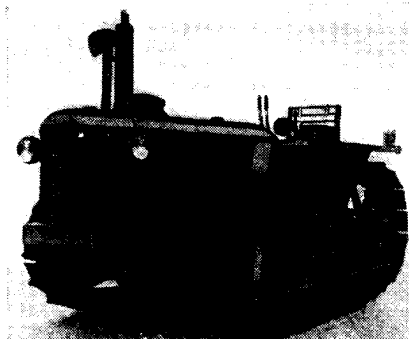


49/027

49/025
Zetor-Super

with power winch and protective net. Single drum power winch has a gear-box with two winding speeds, overload release, brake and automatic cable spooling.
MOTOKOV

49/028



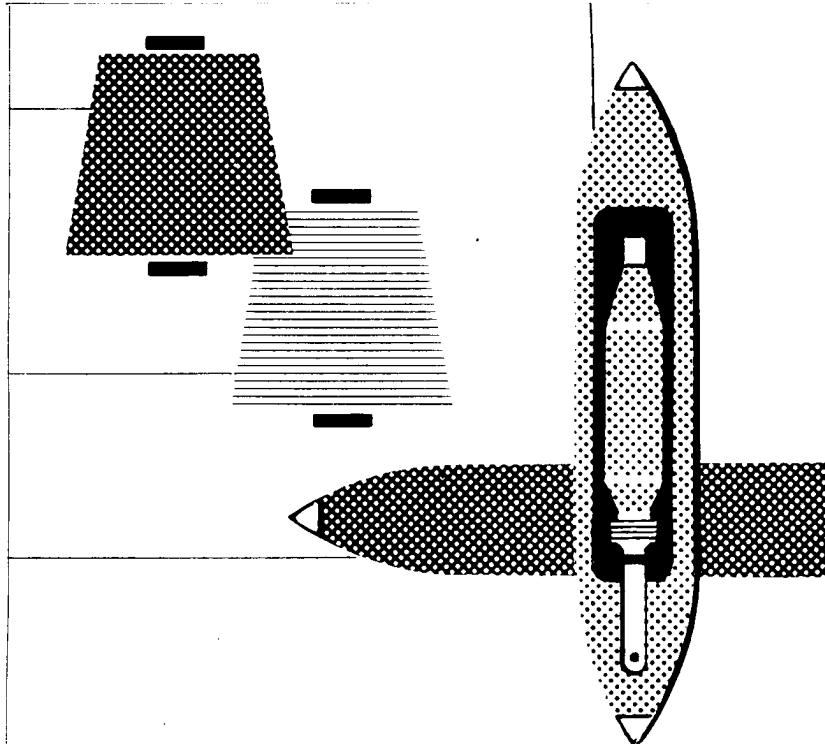
49/027
Zetor Super P

with bulldozer blade. Bulldozer blade is controlled from tractor hydraulic power lift by means of steel cables. Working width of blade 2300 mm or 7'6³/₈"; height 750 mm or 2'5¹/₂"; capacity 1 m³ or 35.31 cu. ft. *MOTOKOV*

49/028
Zetor Super P

with hydraulic power lift and 400 mm tracks.
MOTOKOV

49/029
Zetor Super Tractor-Sectional View
(Wheeled tractor) *MOTOKOV*



EQUIPMENT FOR THE TEXTILE INDUSTRY

PREPARATORY MACHINES FOR SPINNING MILLS
SPINNING MACHINES
YARN AND ROPE SPINNING MACHINES
TEXTILE FINISHING MACHINES
MACHINES FOR WEAVING MILLS
KNITTING AND HOSIERY KNITTING MACHINES
INDUSTRIAL SEWING MACHINES
HOUSEHOLD SEWING MACHINES
SHOEMAKING AND LEATHERWORKING MACHINES

DEUTSCHER INNEN-UND AUSSENHANDEL

MASCHINEN-EXPORT

BERLIN W 8 — MOHRENSTRASSE 61



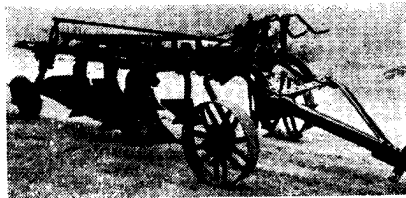
*Good
business connections
through
personal
contact*

SAAR FAIR

SAARBRÜCKEN

HELD EACH SPRING

50 FARMING MACHINES



50/001 50/001
3 PZ-35 Tractor-Mounted Three Bottom Plough

For ploughing cereal and technical row crops with specific resistance of 1.2 kg/cm² or 17 psi; ploughing depth up to 30 cm or 12". Working width 105 cm or 3 ft 5 in., weight 1400 kg or 3086 lbs. *MOTOKOV*

50/002
5 PZ-35 Tractor-Mounted Five Bottom Plough

Designed for ploughing cereal and technical row crops with specific resistance 1.2 kg/cm² or 17 psi; ploughing depth 30 cm or 12". Working width 175 cm or 5 ft 9 in.; weight 1990 kg or 4336 lbs. *MOTOKOV*

50/003
MARS PICCOLO 332 Tractor-Mounted Three Bottom Plough

For light soils, to be used with Zetor 25, 25 A or 25 K tractors. Working width 75 cm or 2 ft 5 1/2 in., maximum ploughing depth 21 cm or 8.3", weight c/w attachments 236 kg or 520 lbs. *MOTOKOV*

50/004
3 PN-35-D Tractor-Mounted Three Bottom Plough

Designed for Zetor tractor. Overall working width 105 cm or 3 ft 5 in.; maximum ploughing depth 28 cm or 11". Gross weight 420 kg or 1014 lbs. *MOTOKOV*

50/005
3 PN-35-D Tractor-Mounted Three Bottom Plough

Differs from the 3 PN-35 plough by longer forecarriage. Gross weight 440 kg or 1095 lbs. *MOTOKOV*

50/006
3 PN-30 Tractor-Mounted Three Bottom Plough

See 4 PN-30 Plough. Working width: 90 cm. Weight: 380 kg. *MOTOKOV*

50/007
3 PN-30 Mounted Three Bottom Plough

(with 3 PN-35 frame). Identical with 3 PN-35 plough; bottoms of 12". *MOTOKOV*

50/008
4 PN-30 Tractor-Mounted Four Bottom Plough

Overall working width 120 cm or 3'11"; maximum ploughing depth 24 cm or 9". Part of frame detachable; can be used as three bottom plough — 3 PN-30. Weight 460 kg or 1014 lbs. *MOTOKOV*

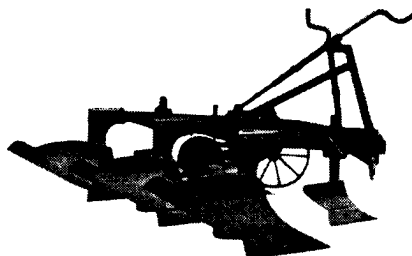
50/009
PN 532 Mounted Five Bottom Plough

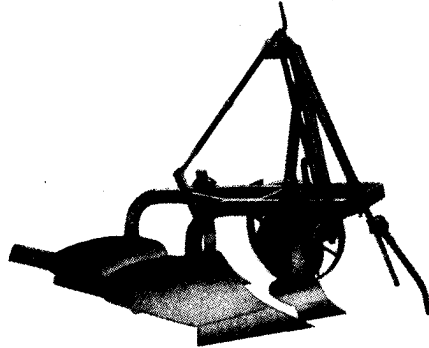
For stubble field skimming up to maximum depth of 10 cm or 4". Working width 125 cm or 4 ft, weight approximately 250 kg or 507 lbs. *MOTOKOV*

50/010
PN 252 Mounted Two Bottom Plough

Working width of one bottom 30 cm or 12", overall working width 60 cm or 2 ft; maximum ploughing depth 25 cm or 10". Weight approximately 260 kg or 573 lbs. *MOTOKOV*

50/005





50/013
2 PDN-35 Mounted Two Disc Plough

Ploughing depth variable from 12 up to 22 cm or from 4.72 up to 8.66", working width depends on cutting depth and setting of cutting angle. With discs set to maximum angle and at maximum working depth of 22 cm or 8.66", the cut per disc is 35 cm or 13.8"; overall working width 70 cm or 27.6". Weight 367 kg or 809 lbs.

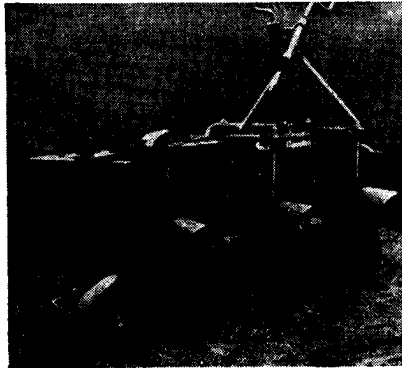
MOTOKOV

50/011
2 PNO-35 Mounted Two Bottom Reversible Plough

50/011

Designed for medium and deep ploughing for use with Zetor Super tractor on small and medium size sloping grounds, also for one-sided ploughing in level ground. Share cut 35 cm or 13.8", overall working width 70 cm or 27.6", maximum working depth 27 cm or 10.6". Weight approximately 450 kg or 903 lbs.

MOTOKOV



50/012
3 PDN-35 Mounted Three Disc Plough

50/012

Working depth adjustable from 12 up to 22 cm or from 4.72 up to 8.66". With discs set at maximum angle and maximum working depth of 22 cm or 8.66" the cut per one disc is 35 cm or 14", overall working width 105 cm or 3'5". Weight 440 kg or 970 lbs.

MOTOKOV

50/014
UPS All Purpose Forecarriage

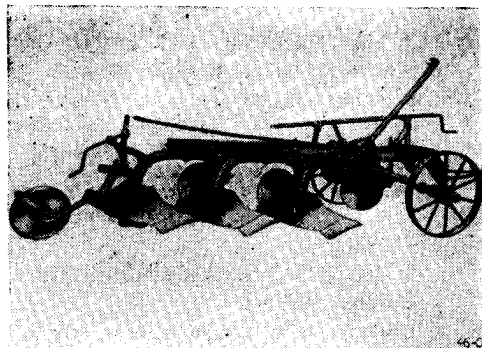
Basic component part of the Mars trailing plough range; carries depth control and lowering mechanism. Weight c/w attachments 190 kg or 418 lbs.

MOTOKOV

50/015
U 22 Two Bottom Attachment

For use with the UPS forecarriage; for deep ploughing up to a maximum depth of 28 cm or 11"; overall working width 60 cm or 23.6". Weight of bare attachment c/w accessories: 225 kg or 496 lbs.

MOTOKOV



50/016

50/016
U 322 Three Bottom Attachment

To be used together with the UPS forecarriage for deep ploughing to a maximum depth of 26 cm or 10.2"; overall working width 90 cm or 35.4". Weight c/w accessories: 345 kg or 760 lbs.

MOTOKOV

50/017

U 327 Three Bottom Attachment

Serves together with the UPS forecarriage for medium deep ploughing to a maximum depth of 22 cm or 8.66"; overall working width 75 cm or 29.5". Weight of attachment c/w accessories: 280 kg or 617 lbs. *MOTOKOV*

50/018

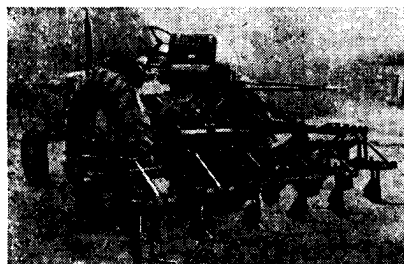
U 51 Five Bottom Attachment

Serves together with the UPS forecarriage for skimming of stubble and to a maximum depth of 15 cm or 6"; overall working width 125 cm or 49.2". Weight of attachment c/w accessories: 245 kg or 540 lbs. *MOTOKOV*

50/019

UK 153 Cultivator Attachment

Serves together with the UPS forecarriage for preparing seed beds up to a maximum depth of 12 cm or 4.72"; overall working width 210 cm or 6'10.7". Weight of attachment 174 kg or 383 lbs. *MOTOKOV*



50/020

50/020

KPN 6 A Mounted Beet Hoer

For hoeing of row crops spaced from 38 up to 80 cm or from 15 up to 31.5". At normal setting of hoeing assemblies the hoer operates as a six-row type. Overall width 320 cm or 10'6"; weight c/w hoeing assemblies, accessories and signers approximately 571 kg or 1259 lbs. *MOTOKOV*

50/021

HMD/2 Single Bottom Animal

Traction Plough

Working width 22 cm or 8.66"; cutting depth 6 to 14 cm or 2.36 to 5.51". Weight 24 kg or 53 lbs. *MOTOKOV*

50/022

HML/2 Single Bottom Animal

Traction Plough

With one handle and RH slide. Working width 22 cm or 8.66"; maximum cutting depth 6 to 14 cm or 2.36 to 5.51". Weight 30 kg or 66 lbs. *MOTOKOV*

50/023

TP/100 Single Bottom Animal

Traction Plough

Working width 17 cm or 6.69"; cutting depth 5 to 13 cm or 2 to 5"; weight 12 kg or 26 lbs. *MOTOKOV*

50/024

SP 6 LSt Single Bottom Animal

Traction Plough

With land wheel. Working width 23 cm or 9"; cutting depth 9 to 17 cm or 3 1/2 to 6 3/4". Weight 40 kg or 88 lbs. *MOTOKOV*

50/025

SP 7 LSt Single Bottom Animal

Traction Plough

Light type; working width 25 cm or 10"; cutting depth 9 to 23 cm or 3 1/2 to 9"; weight 46 kg or 95 lbs. *MOTOKOV*

50/026

SP 9 R Single Bottom Animal

Traction Plough

With plough share. Working width 30 cm or 12"; cutting depth 10 to 23 cm or 4 to 9"; weight 61 kg or 134 lbs. *MOTOKOV*

50/027

OPKSO St Single Bottom Animal

Traction Plough

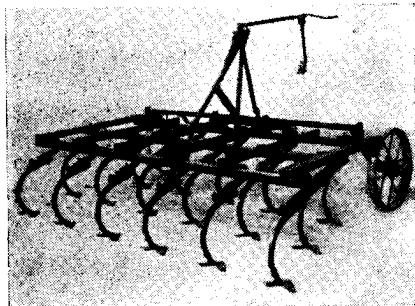
Reversible, with 5/6 NR forecarriage with. Working width 21 cm or 8.3"; cutting depth 6 to 15 cm or 2.36 to 6"; weight 65 kg or 143 lbs. *MOTOKOV*

50/028

OPKSO St Single Bottom Animal

Traction Plough

Reversible, with land wheel. Working width 21 cm or 8.3"; cutting depth 6 to 15 cm or 2.36 to 6"; weight 41 kg or 90 lbs. *MOTOKOV*



50/033
17-SVBP-105 Animal Traction
Corn Drill

Roller system with bottom and top sowing set. The top sowing set serves for sowing voluminous seeds with delicate husks. Track width 200 cm or 6'7"; working width 178.5 cm or 5'10¹/₄". Number of rows 17; row pitch 10.5 cm or 4.13"; weight 408 kg or 899 lbs. Output 0.83 ha/h or 2 ac./h at a speed of 5 km or 3.11 m. p. h.

MOTOKOV

50/029

50/029
KHN 280 Mounted Cultivator for
Depth Loosening

The frame carries 19 clamps with tools. Maximum cutting depth 25 cm or 8"; pitch 15 cm or 6". Overall width and working width 280 cm or 9'3". Weight c/w implements approximately 529 kg or 1166 lbs.

MOTOKOV

50/030
KN 170 P Mounted Cultivator

17 working tools attached in three rows in welded on yokes. Point pitch 15 cm or 6". Maximum cutting depth 12 cm or 5"; working width 255 cm or 8'4"; weight 300 kg or 660 lbs. Output at 6 km. p. h. or 3.73 m. p. h.: 0.6 ha/h or 1¹/₂ ac./h.

MOTOKOV

50/031
KHZ 200 Trailing Cultivator

Working width 200 cm or 6'7"; maximum cutting depth 30 cm or 12"; 9 shovels. Weight approximately 750 kg or 1653 lbs. The machine is designed for depth loosening; it has various working tools. Working speed 5 km or 3.11 m. p. h.

MOTOKOV

50/032
KPZ 260 Trailing Cultivator

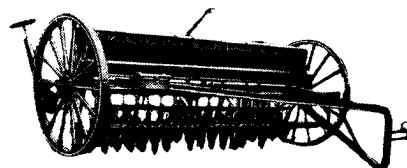
Designed for preparing of level seed beds up to a resistance of 0.7 kg/cm² or 10 psi. Working width 262 cm or 8'7"; working depth maximum 15 cm or 6"; weight 550 kg or 1212 lbs; operation speed 3.5 km or 2.17 m. p. h.; output 0.85 ha/h or 2 ac./h at a speed of 3.3 km or 2 m. p. h.

MOTOKOV

50/034
UNIKUM 16-SLN-150 Mounted
Spoon Drill

Suitable for sowing cereals and other field crops similar to cereals due to seed size and sowing standards. Working width 240 cm or 7'10¹/₂"; row pitch 15 cm or 6"; filling capacity 150 dm³ or 91.5 cu. in. Transport speed 15 km or 9.32 m. p. h. Maximum output at a speed of 8 km or 5 m. p. h.: 1.90 ha/h or 4.69 ac./h. Weight 470 kg or 1036 lbs.

MOTOKOV



50/035

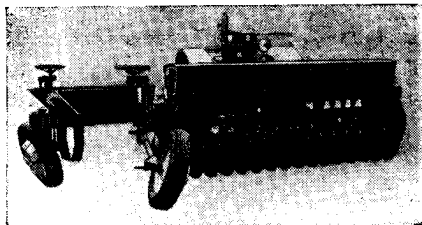
50/035
All Purpose Corn Drill 35-SVBZ-75

Roller sowing system with bottom and top sowing set, enabling thick row sowing. Tread width of machine 300 cm or 9'10"; working width 262.5 cm or 8'8"; number of rows 35; row pitch 7.5 cm or 2.95"; weight 730 kg or 1499 lbs. Output 1.30 ha/h or 3.2 ac./h at a speed of 5 km or 3.11 m. p. h.

MOTOKOV

50/036
PDP 120 Semi-Mounted Disc
Skimmer

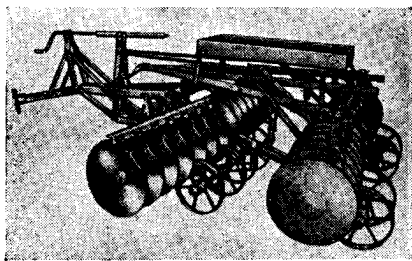
Skims soil to a depth of 8 to 12 cm or 3 to 5", sowing simultaneously stubble-field crops. Working width 120 cm or 3'11"; disc diameter 50 cm



50/037
or 20"; 9 discs 18 cm or 7" pitch.
Weight approximately 550 kg or
1212 lbs; output 1 ha/h or 2½ ac./h.
MOTOKOV

50/037
PPTZ-250 Trailing Disc Skim
Plough

For skimming stubble land after cereals, legumens, oil plants, etc. to a depth of 5 to 8 cm or 2 to 3". Has 17 discs of 50 cm or 20" diameter; 18 cm or 7" pitch. Working width 250 cm or 8½"; weight c/w sowing set approximately 1265 kg or 2789 lbs.
MOTOKOV



50/038
50/038
NTB 28 N Tractor Disc Harrows

Crush clods, skim stubble land, cut meadow turf, etc. Number of discs 28; Disc diameter 45 cm or 17.7"; overall working width 224 cm or 7'4"; weight 506 kg or 1115 lbs. Output approximately 1.1 ha/h or 2¼ ac./h at a speed of 5 km or 3.11 m. p. h. MOTOKOV

50/039
TDBT 5A Tractor Tine Harrows

Designed for preparation of soil for seed beds, burial of growth, soil loosening, surface levelling, weed control, etc. Working width 480 cm or 15'9"; number of tines 100; tine spacing



50/040
4.8 cm or 1.9". Weight approximately
240 kg or 530 lbs. Output approxima-
tely 2.4 ha/h or 6 ac./h at a speed of
5 km or 3.11 m. p. h. MOTOKOV

50/040
2 SZ 210 P Fodder Rake (Piler)

Tractor-trailed, for piling or turning fodder. Working width of one part 210 cm or 6'11"; of both V-connected parts when piling: 520 to 600 cm or 17'1" to 19'8". When reverse-operating the drum, the machine turns the fodder, loosens it and airs it for faster drying. Weight of one part 495 kg or 1091 lbs. Working speed 7 to 8 km or 4 to 5 m. p. h.; output 2.4 ha/h or 6 ac./h.
MOTOKOV

50/041
NOVITAS Fertilizer Spreader
RPZ 300

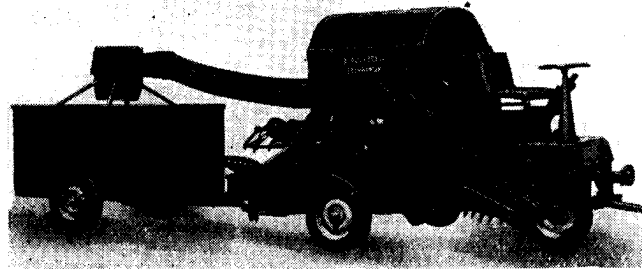
Suitable for any type of tractor fitted with drawbar or tow hook. Working width 300 cm or 9'10"; filling capacity 144 dm³ or 8587 cu. in.; weight 260 kg or 572 lbs. Output 1.8 ha/h or 3.45 ac./h at a speed of 6 km or 3.73 m. p. h.
MOTOKOV

50/043
VRN 3 Mounted Beet Digger

Digs three rows of beet by means of two LH and one RH point. Variable row spacing from 40 up to 50 cm or from 16 up to 20", working width 3 rows. Overall width of machine 170 cm or 5'7"; weight approximately 200 kg or 440 lbs.
MOTOKOV

50/044
VRZ 3 Trailing Beet Digger

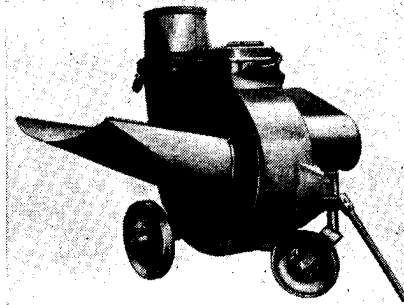
It is the VRN 3 mounted beet digger attached to the trailing forecarriage for mounted implements ZPN. Working width 3 rows. Weight: 440 kg or 970 lbs.
MOTOKOV



50/045
SK 4 Four Row Tractor Potato Planter

Designed for row planting of any kind of potatoes, provided the bulb weight does not exceed 120 gr. or 4.24 oz. Spacing 62,5 cm or 26.37". Working width 250 cm or 8'2"; planting depth 14 to 16 cm or 5½ to 6"; filling capacity 2×120 kg or 2× 264 lbs; weight 950 kg or 2095 lbs. *MOTOKOV*

50/050

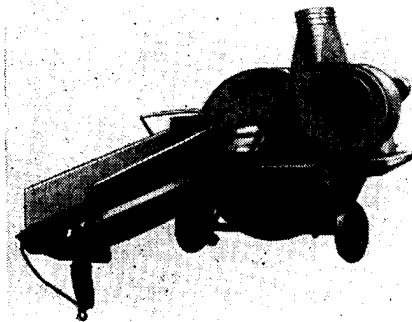


50/048
Rotary Cutter, Type RRM,

used for chopping dry or fresh fodder and straw behind smaller threshers. Output: 20 q of dry fodder per hour.

MOTOKOV

50/048



50/046
Ensilage Cutter, Type RVM 37,

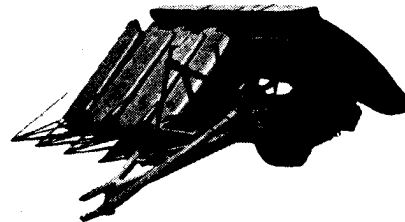
used for chopping dry or fresh fodder. Motor input; 5.5 kW, Speed 300 r. p. m. Output: 14 q of dry fodder, 40 q of fresh fodder per hour. *MOTOKOV*

50/046

50/047
Ensilage Cutter, Type RV 42,

used for cutting dry or fresh fodder including straw behind the MA 90 thresher. Motor input 12 kW, Speed 500 r. p. m. Output: 40—60 q of dry fodder, 120—200 q fresh fodder with chopped straw, 20 mm long. *MOTOKOV*

MOTOKOV



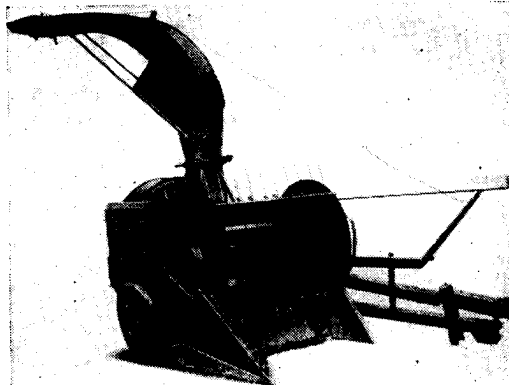
50/049
Flax Pulling Machine, Type TLZ 120

The machine pulls and deposits flax. It is used with tractors up to 25 H. P., weight 925 kg or 2035 lb., provided with P. T. O. Output: 3—4 hectares per hours. *MOTOKOV*

50/049

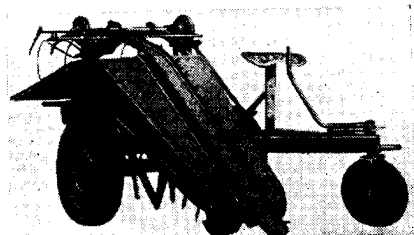
50/050
Flax Picker with Sheller and Binding Attachment, Type SLOZ,

designed for picking, shelling and binding dry flax, pulled by the flax puller, hitched to the tractor. Also suitable for flax threshing in the field or barn. Output: 4—5 hectares per 8 hours. *MOTOKOV*



50/051
Flax Picker, Type SLUZ

The machine which is hitched to the tractor, picks and binds flax into bundles for further processing. Daily output: 2—3 hectares. Weight: 470 kg. *MOTOKOV*



50/051

50/052
Three-Stroke Milking Apparatus, Type DT 1

By removing a part the machine can be quickly converted into a two-stroke type. The third, rest stroke has a favourable influence on the health of the milk-cows. Weight: 10 kg. Capacity of can 18 litres. *MOTOKOV*

50/054
Forage Harvester, Type SRZ 42

The machine serves for harvesting fresh forage including sunflowers and maize up to a height of 330 cm, as well as dry forage and straw left. Output: 150 to 250 q per hour according to the kind of fresh forage. 0.6 hectare of dry forage or straw per hour. Working width 130 cm. Weight 1300 kg. *MOTOKOV*

50/055
Food Mixer, Type MJK - 300,
designed for perfect mixing of all kinds of food. Output: 20 q per hour. Input of electric motor: 4 kW. *MOTOKOV*

50/054

50/056
Potato Grader, Type TB 10

The machine divides potatoes into four grades according to their size. Weight 300 kg. Speed of electric motor (N = 1.85 kW) 1400 r. p. m. Approximate output 20 q per hour. *MOTOKOV*

50/052



50/057
"CERT" Potato Spinner

The spinner is an animal drawn, single-row machine. Number of revolutions of the spinning wheel at a speed of 4 kilometres per hour 87/min. Weight 280 kg. Output per 10 hours: 2 hectares. *MOTOKOV*

50/059
Semi-Mounted Mower with Adjustable Pitch, Type ZT 183.1

The tractor semi-mounted right-hand cutter bar is flexibly hinged to the frame. Working width 183 cm. Maximum travelling speed during operation 6 km per hour. Weight 210 kg. Output 1 hectare per hour. *MOTOKOV*

50/060
Side-Mounted-Tractor Mower Z 25

designed for moving grass, working width 152—183 cm. Weight approx. 80 kg. *MOTOKOV*

50/061
Tractor Grain Binder, Type ZVZ 210

The machine is intended for grain cutting and binding. Cutting width 210 cm. Working speed 7 km/hour. Weight 850 kg. Output 1.5 hectare per hour. *MOTOKOV*

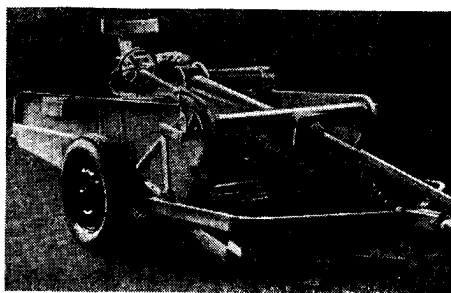
50/063
Sugar Beet Harvester, Type SKR 1

A single-row beet cropper. It cuts the beet leaves first and then digs the heads. The leaves and heads are conveyed independently into the bins. Output per 8 hours 0.8 hectare. Working speed 2.8 to 3.2 km per hour. *MOTOKOV*

50/064
Double-Row Potato Spinner, Type 2-VBZ

The machine works behind 25 or 30 H. P. tractors. It is used for spinning po-

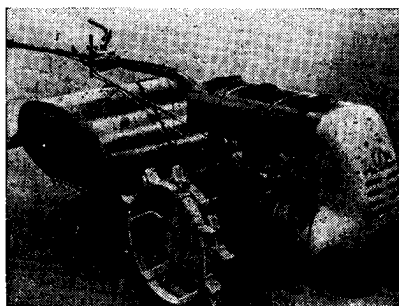
tatoes, machine planted in 2 rows with an inter-row spacing of 70 cm. Working width 140 cm. Weight 650 kg. Output 0.45 hectare per hour. *MOTOKOV*



50/064

50/065
MOTOROBOT Garden Tractor, Type PF 61

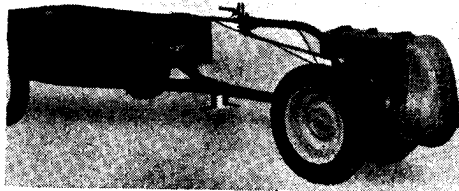
The machine is a small two-wheel tractor which finds a wide range of application in gardens, vegetable gardens, nurseries, orchards, parks, etc. in combination with suitable implements. Speeds 3 forward (3.5—4.5—8 km/hr.), reverse (3.5 km/hr.) Output 5 HP. Weight 350 kg. *MOTOKOV*



50/065—066

50/066
Rotary Cultivator, Type F 651

for use with PF 6 Motorobot, for soil loosening and tillage, especially suitable for vegetable gardens and orchards. Working depth 600 mm, or 400 mm in hard soil. Weight 109 kg. *MOTOKOV*



50/067
Farm Wagon, Type PV 81

A double-wheel PF 6 Motorbot trailer, used for handling a variety of hauling jobs. Load carrying capacity 800 kg, 210×135 cm. *MOTOKOV*

50/067

50/068
Riding Attachment, Type PP 23

The riding attachment serves for transport purposes and operation with implements requiring no attention (harrows, etc.). Weight 72 kg. *MOTOKOV*

MOTOKOV

50/069
Cambridge Roller, Type VCM-125

This Motorbot hitched implement serves for breaking up the soil crust. Weight 485 kg. *MOTOKOV*

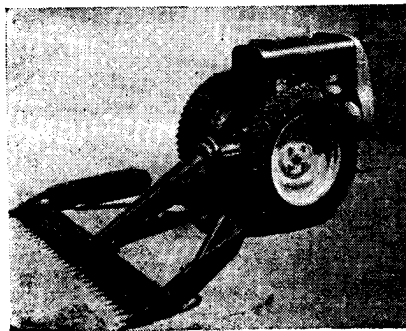
MOTOKOV

50/070
Plain Roller WH

The roller which is attached to the PF-61 Motorbot hitch, prepares seed beds and breaks up clods. Weight 175 kg. *MOTOKOV*

MOTOKOV

50/071



50/071
Mower, Type Ž 151

for use with PF-6 Motorbot, serves for grass cutting. Working width 152 cm. Weight 110 kg. It operates at a Motorbot reverse speed of 3.5 kilometres per hour. *MOTOKOV*

50/072
Orchard Plough, Type ZP-130

A single-share, reversible plough, hitched to the Motorbot tractor; it is suitable for ploughing medium heavy soil. Working width 25 cm. Weight of plough 52 kg. *MOTOKOV*

MOTOKOV

50/073
Disc Harrows, Type BDM-100

For use with Motorbot PF-61 tractors. The harrows serve for the preparation of seed beds and turning of stubble fields. Working width 100 cm. Weight 94 kg. *MOTOKOV*

MOTOKOV

50/074
Všerob 3-DHK Multi-Purpose Cultivator

A Motorbot PF-61 hitched implement for soil preparation and cultivation. Suitable for potato, beet or vegetable crops. Weight complete 138 kg. *MOTOKOV*

MOTOKOV

50/075
Cultivator, Type KM-64

Hitched to Motorbot PF-61 tractor for soil loosening. Maximum working depth 9 cm. Working width 64 cm. Weight 40 kg. *MOTOKOV*

MOTOKOV

50/076
Inter-Row Cultivator, Type KRM-116

This PF-61 Motorbot hitched implement is used for weed control and soil aeration. Working width 116 cm. Maximum working depth 120 cm. Weight 40 kg. *MOTOKOV*

MOTOKOV

50/077
Belt Pulley, Type N-12

This special attachment to PF-61 Motorbot tractors, is used for driving agricultural machines. *MOTOKOV*

MOTOKOV

50/078

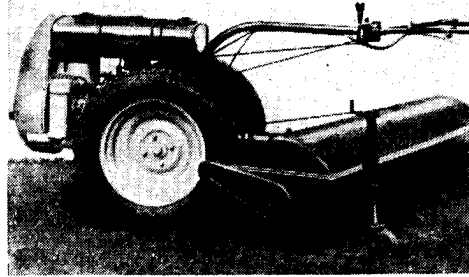
Post Hole Digger, Type VLM

This PF-6 Motorbot semi-mounted implement is used for digging holes for setting trees and bushes. Diameter of holes 28 cm. Maximum digging depth 30 cm. Weight 60 kg. *MOTOKOV*

50/079

Post Hole Digger, Type VM

This semi-mounted implement for PF-6 Motorbots serves for drilling perpendicular and diagonal holes, 30 or 45 cm in dia., to a depth of 70 cm. Diameter of holes 30 or 45 cm. Maximum digging depth 70 cm. Weight 340 kg. *MOTOKOV*



50/081

50/082

Saw Bench, Type PCM-65

The PCM-65 saw bench which is designed for use with PF16 Motorbot tractors, serves for cutting wood. Weight 83 kg. Speed of blade 1900 r. p. m. 2 operators. Approximate output 2 to 4 cu. metres per hour according to the kind of wood. *MOTOKOV*

50/083

PRIM-152 Reaper

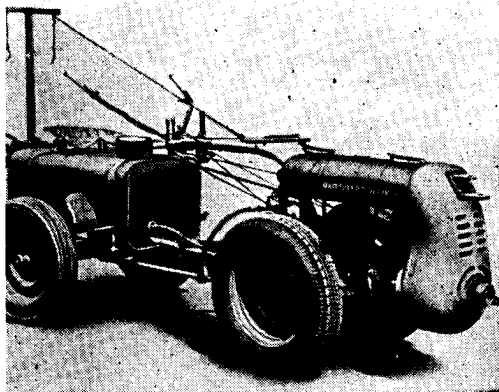
The reaper serves for cutting corn. The cut corn is deposited in bunches in the stubble-field. Length of cutter bar 152 cm. Weight c/w assembly 439 kg. Maximum cutting speed 6 km/hour. *MOTOKOV*

50/084

Thresher, Type MA 90

The thresher is used for threshing all kinds of cereals, legumes and oil plants. The 25 kW, type RFU 92 A electric motor for 380/220 V a. c. develops a speed of 2960 r. p. m. Output 20 q of wheat per hour, of 43.5 p. c. yield and 16 p. c. moisture content. 4 to 5 operators. *MOTOKOV*

50/084



50/080

50/080

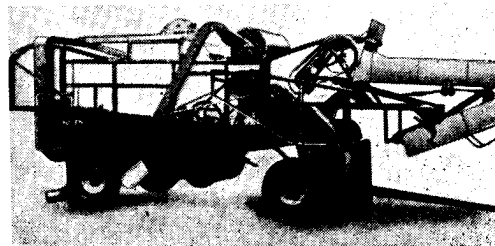
Spraying Attachment, Type PM-200

This PF-6 Motorbot attachment serves for pest control of orchards and vegetable crops. It provides a flat, high spray even for trees. Approximate weight 220 kg. Tank capacity 200 litres. Output 180 to 350 sprayd trees per hour. *MOTOKOV*

50/081

Power Brush, Type ZM-12

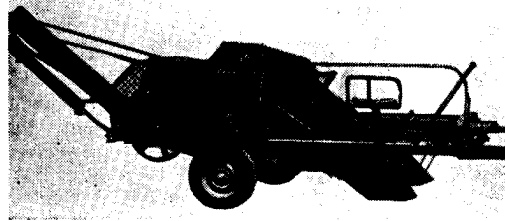
This Motorbot implement serves for brushing and sweeping yards, lawns, play grounds, etc. Working width 126.5 cm. Working speed 4 to 5 km/hour. Approximate weight 160 kg. *MOTOKOV*



50/085
**Automatic MAJ-90 Thresher with
Clover Shelling Attachment**

The thresher is intended for clover threshing, shelling and cleaning. It can also be used for threshing grain and leguminous plants without dismantling the sheller. Weight about 4000 kg. Output 150 kg/hour.

MOTOKOV



50/086

50/086
Pick-up Baler, Type SLK-130

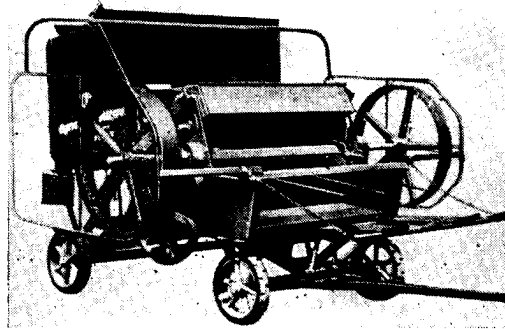
The machine picks up and bales straw or forage in the field which it delivers on slide rails to the trailer. Weight 1400 kg. Output $\frac{1}{2}$ to 1 hectare per hour.

MOTOKOV

50/087
Straw Baler, Type LS-130

The machine presses and bales straw. Length of bales 300 or 500 mm. Output 30 to 35 q per hour. Weight 1025 kg.

MOTOKOV



50/089

50/089
Grain Blower, Type Z-3-A

The machine is used for the pneumatic conveying of grain. Approximate weight with kW electric motor and accessories 415 kg. Output at a length of 40 metres and height of 10 metres 50 q per hour. The machine can be easily transported and prepared for use.

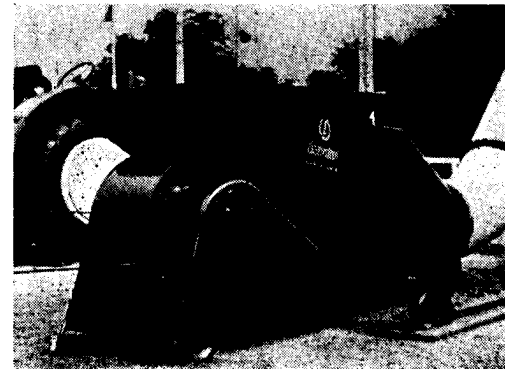
MOTOKOV

50/090

50/090
TORON Hay Blower

The blower is used for the pneumatic conveyance of stalked plants, such as hay, straw, etc. The S 2/II type can be used with pulley block behind a thresher and the S 2/III with own electric motor types are suitable for use with a thresher. In addition, the S 2/III serves for conveying all kinds of fodder. The output of the machine depends on the speed of the fan. It amounts approximately to 2500 kg per hour.

MOTOKOV



50/091
Hay Blower, Type VSDP with Feeding and Crushing Attachment

The blower is used for the pneumatic conveyance of stalked plants, such as hay, straw, etc. Output 3000 kg of hay delivered to a distance of 30 metres and a height of 10 metres per hour at a speed of 1220 r. p. m. 380 V, 1300 r. p. m., 9 kW electric motor.

MOTOKOV

50/092
Two-Wheel Trailer, Type DP 2.5 S

The trailer can be tipped to two sides and to the rear by means of a hydraulic telescopic cylinder, fitted to the hydraulic power lift. The trailer is provided with a hand brake acting on the two wheels, within the driver's reach. Length 440 cm. Carrying capacity 2500 kg. Weight 760 kg.

MOTOKOV

50/093
Tractor Trailer 3.5 PVB 2

The spring mounted trailer has a payload of 3.5 tons. It is provided with an air-pressure brake and mechanical hand brake. Carrying capacity 3500 kg. Weight 1450 kg.

MOTOKOV

50/094
Farm Wagon, Type PV 2.5

The animal drawn farm wagon is unsprung and its box is not tiltable. The cargo platform is 180×395 cm in size. Carrying capacity 2.5 tons. Weight 955 kg.

MOTOKOV

50/095
Manure Loader, Type NH-100-A

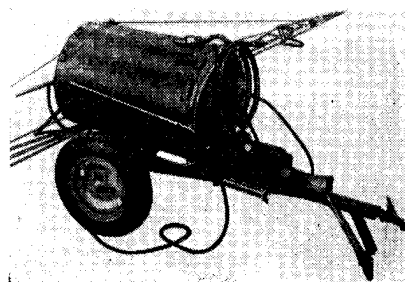
The hydraulically controlled loader is hitched to the 225 K tractor. Its tower can be turned by 380°. The forks can be substituted for a shovel. Weight of the loader 800 kg. Working pressure 70 atm. Extension of grab 1000 mm. Capacity 120 to 150 q per hour.

MOTOKOV

50/097
Mounted Fertilizer Distributor

The machine is designed for use with 15 H. P. tractors. Working width 3 metres. Box capacity 600 kg. The simple frame of the machine can be dismantled.

MOTOKOV



50/098

50/098
Tractor Drawn Sprayer, Type P-900

The machine is used for pest control of field crops and fruit trees. It can also be used for other sanitation purposes. By means of a spraying frame the machine can be adjusted for wide field spraying, or adapted to high-pressure hoses for spraying trees and bushes. Piston type pump. Output of pump 40 litres per min. For flat 10 metre spraying, adjustable from 250 to 750 litres per hectare. Weight with liquid 1430 kg.

MOTOKOV

50/099
Logging Truck, Type DT 7

Useful load 7000 kg. Permissible speed 30 km/hour. Permissible overall weight 9420 kg.

MOTOKOV

50/100
Liquid Manure Tank Car, Type FPT-2.5

The trailer is used for the transport of thick or thin liquids. It is also suitable for spraying. Compressor capacity 200 cu. metres per hour. Maximum permissible load 5610 kg. LK 70/70 compressor. Capacity of tank 2.5 cu. metres.

MOTOKOV

50/111

Dehydrated Ammonia Spreader

Comports two undercarriages with tanks and ammonia spreading set on cultivator. Tank capacity 535 litres or 117.7 Imp. gallons. Weight 1850 kg or 4078 lbs.

50/112

RAG 1 Hand Operated Aerosol Generator

For pest control of vegetation by mist. Weight c/w petrol or aerosol charge 11.7 kg or 25.76 lbs; consumption per hour: 1.5 litre or 1.32 Imp. quart petrol and/or 4.5 litres or 1 Imp. gallon aerosol.



50/113

50/113

Esox B 2 Motor Launch Mower

For mowing water plants of every description.

50/115

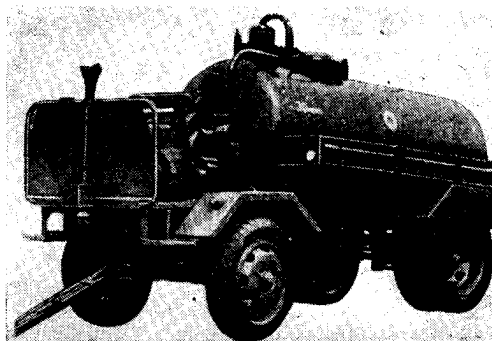
Rymipol Fodder Mixer

For mixing of fodder; enables also weighing of individual fodder kinds, washing and de-sprouting of potatoes. 4 metr. q. or 880 lbs fodder prepared within 12 minutes, including weighing of individual fodder kinds and emptying of machine.

50/116

Mobile Scalding Set PK-20

Fully automatic, high efficiency set for potato scalding, mounted on a special undercarriage. Output 1500 to 2000 kg or 3300 to 4400 lbs potatoes per hour. Weight 4200 kg or 9258 lbs.



50/117

50/100

Mobile Brass Sprayer No. 3

Serves for liquid mist spraying of vineyards, orchards, etc. on large scale. Extension attachments enable also height spraying. Capacity 40 litres or 8 g. I. m. p. gallons.

MOTOKOV

50/118

MTZ 8 Tractor Dung Sprayer

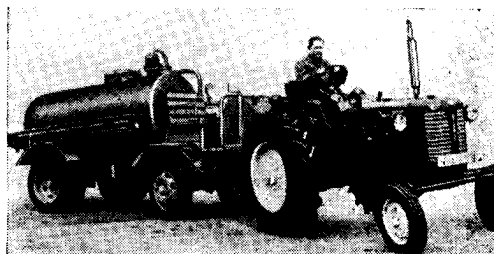
For surface dung spraying and simultaneous hoeing or chiseling of row crops, particularly of beet; especially suitable for cultivation of sugar beet and potato hilling. Working with 3000 mm or 9 ft. 10 in. Operating speed: 4 to 6 km. or 2.49 to 3.73 m. p. h. Travelling speed: max. 20 km. or 12.4 m. p. h. Weight 1600 kg. or 3527 lbs.

KOVO

50/122

Husking Machine

For husking dry corn husks. Supersedes manual corn husking. 3 operators needed. Maximum weight 350 kg or 770 lbs. Drive: electric motor of 4 kWh power output or combustion engine of 5 HP power output.



50/123
Z 102 Grain Blower

for pneumatic transport of grain and loose material in silos and large farms. Output 12 t/h, weight 460 kg without accessories.



50/124

50/124
Z 103 Grain Blower

for pneumatic transport of grain of all kinds for a medium sized farms. Output 6 tons per hour. Weight 160 kg.

50/125
OSO-57 Grain Deduster and Aspirator

is a newly designed machine to be used particularly by grain silos. This machine separates completely the dust particles contained in grain and at the same time removes 100% of grain pests. Maximal output 10.000 kg/h.

50/131
Mvs Adjustable Motor Reamer

for turning and reaming of main bearings of crankshafts in engine housings.

50/132
Hay Blower

is made of sheet steel. Frame is mounted on a two wheel undercarriage, diameter of pipes 500 mm. Output: 1 ton of fodder in 10—15 min. Weight with the electromotor but without accessories 210 kg.

50/133
Doudo Plough

is a frame, animal drawn two bottom reversible plough with leverage for depth control. Working width 48 cm, depth 6—20 cm, weight 125 kg.

50/134
ZP 130 Garden Plough

single bottom reversible plough mounted on PF 6 Motorobot. Working width 25 cm, maximal ploughing width 21 cm, weight 52 kg.

50/135
Matador Plough

is a robust, two bottom animal drawn frame plough for all soil kinds and soil conditions. Working width 44 cm, maximal ploughing depth 6—20 cm, weight 68 kg.

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CZECHOSLOVAK FOREIGN TRADE,

a periodical of the Chamber of Commerce of Czechoslovakia, regularly contains reports on traditional export articles as well as novelties of the Czechoslovak industrial production.

51 FIRE EXTINGUISHERS AND EQUIPMENT

51/001 Two-wheel Motor Fire Engine DS 16

Suitable for major fire brigades in places where water source is inaccessible for four-wheeled fire engines. Maximum pressure 160 m, or 994 ft. Weight 900 kg or 1984 lbs.

MOTOKOV

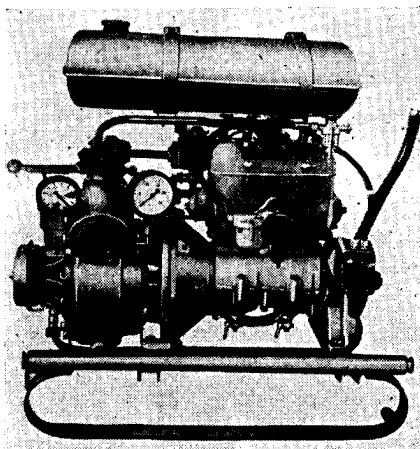
51/002 PP8 Heavy Duty Trailer

for transport of PS 8 portable power fire engine c/w attachments.

MOTOKOV

51/003 PPS 8 L Light Trailer

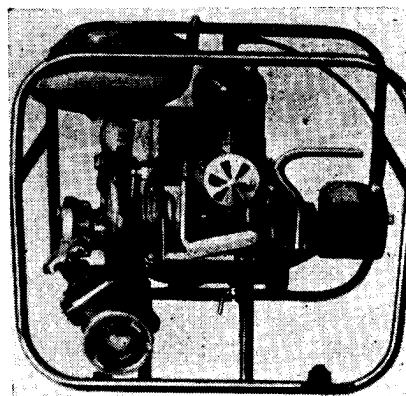
for transport of PS 8 portable motor fire engine c/w accessories. MOTOKOV



51/004

51/004 PS 8 Power Fire Engine (Portable)

for inaccessible places. MOTOKOV



51/005

51/005 PS 3 Power Fire Engine (Portable)

for places inaccessible for heavy machines, for impassable spots. Nominal water flow 300 lt./min., 66 Imp. gall./min. Weight 35 + 90 kg or 77 + 198 lbs.

MOTOKOV

51/006 ZD 18 Two-Wheel Ladder

for erection or fire extinguishing purposes. The design ensures reasonable load at full travel. MOTOKOV

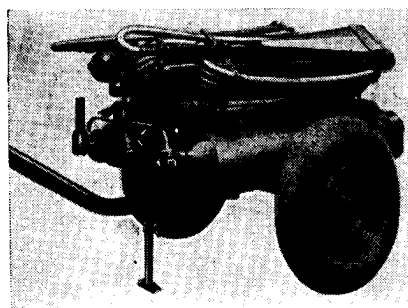
51/007 VP 200 Foam Fire Extinguisher (Mobile)

for extinguishing of liquid combustibles by means of air-mechanical foam. The device is independent of water sources and suitable for prompt fire extinguishing without any loss of time. Nominal capacity 200 litres, 44 Imp. galls. Volume of generated foam 1600 litres, 352 Imp. galls. Weight of charged device 550 kg or 1212 lbs.

MOTOKOV

51/008
S 4 × 25 Snow Fire Extinguisher
(Mobile)

for extinguishing of any kind of inflammable matter, particularly of H. T. electrical equipment. Filling capacity 100 kg, 220 lbs. Gross weight 515 kg, 1135 lbs. *MOTOKOV*



51/009 51/009
S 2 × 25 Snow Fire Extinguisher
(Mobile)

for extinguishing any inflammable matter, particularly of electrical equipment, also H. T. equipment. Filling capacity 50 kg, 110 lbs. Gross weight 203 kg, 447 lbs. *MOTOKOV*

51/010
S 1 × 25 Snow Fire Extinguisher
(Mobile)

for extinguishing any inflammable matter, particularly electrical equipment, even H. T. leads. Filling capacity 25 kg, 55 lbs. Gross weight 105 kg. *MOTOKOV*

51/011
SZ 20 Hold All Fire Sprayer

for ensuring fire safety in houses and minor workshops. Filling capacity 20 lt., 4.4 Imp. galls. Gross weight 32 kg, 70.5 lbs. *MOTOKOV*

51/012
V 10 Water Fire Extinguisher

for any matter likely to be extinguished with water. *MOTOKOV*

51/013
P 10 Foam Fire Extinguisher

particularly suitable for liquid combustibles. *MOTOKOV*



51/014
Fire Extinguisher
PR 6

Powder type, for liquid inflammable materials where water would cause damage. *MOTOKOV*

51/014

51/015
T1 - 2.5 - 6 Tetrachlore Fire Extinguisher

for liquid and solid combustibles. *MOTOKOV*

51/011



51/016

VP 10 Foam-Air Fire Extinguisher

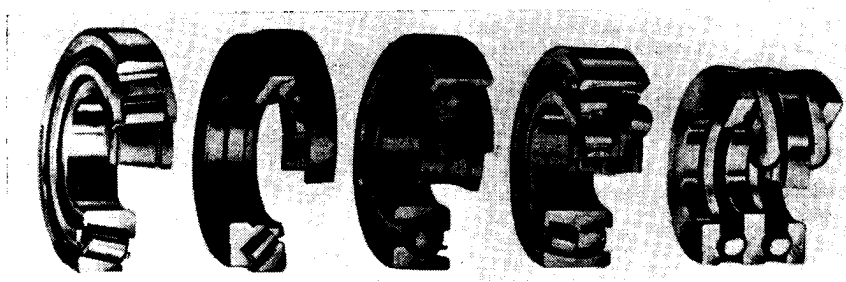
for extinguishing of liquid combustibles
by means of air-mechanical foam.
MOTOKOV

51/017

S 1.5 and 6 Snow Fire Extinguisher

Universal extinguisher for any kind of
inflammable matter. *MOTOKOV*

52 BEARINGS




Roller Bearings

single row, double row radial roller
bearings, uni-directional, single row

axial roller bearings, two-directional,
double row tapered roller bearings.

KOVO



ČECHOFRACHT

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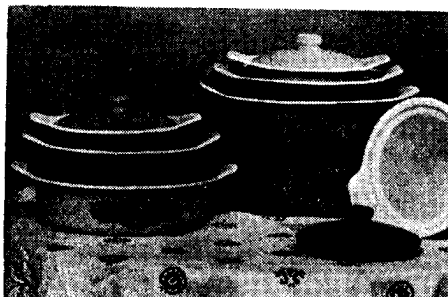
53 KITCHENWARE

53/001

Household, Hotel and Other Kitchenware

REAL NORMA enamelware, plain, medium-weight or heavy; decorated, hotel type DOSMA-SN enamelware with reinforced bottom up to 60 cm. in dia. and a capacity of 120 litres.

ELEKTRO-DOSMA enamelware with reinforced bottom, especially adapted to electric range plates, up to 30 cm in dia.



53/002

Sfinx Iron Kitchenware

cast, enamelled.

53/003

Aluminium Kitchenware

thick, polished or brushed. Kitchenware with strong bottom, 6 to 10 mm. for electric kitchen ranges. *MOTOKOV*

ALUSPOR Cast Aluminium Kitchenware for electric, gas or coal fired ranges. *MOTOKOV*

SANDRIK Aluminium Kitchenware with specially reinforced bottom, for hotel kitchens. *MOTOKOV*

MEVA aluminium coffee-pot in modern shapes and with insulated handles. *MOTOKOV*

Milkpot (double-plated). The milk is boiled over a water bath. The pot is provided with a steam-whistle. *MOTOKOV*

SANDRIK restaurant boiling-tub for dumplings. *MOTOKOV*

Restaurant aluminum pot with drain-cock. *MOTOKOV*

Aluminium sports requisites, canteens, field bottles, foodboxes. *MOTOKOV*

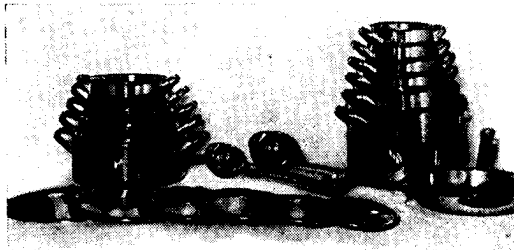
53/004
INOXYDABLE Stainless Steel
Kitchenware

MOTOKOV

Grater, made of one steel-plate,
stainless. *MOTOKOV*

53/005
Galvanized Kitchenware

Washing pots, water buckets, tubs,
etc. *MOTOKOV*



54 HOUSEHOLD KITCHEN MILLS

Household Kitchen Mills,
Kitchen Robot

hand-operated. Meat-mincers, fruit-
presses, mills for grinding spices, pop-
py seeds, etc., bun graters, bread cut-
ters.

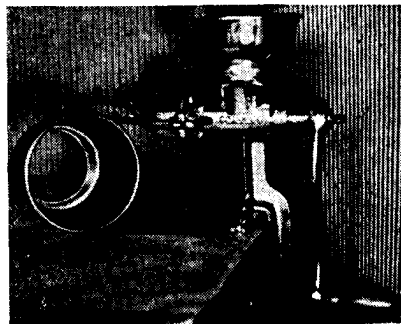
Universal grating machine MARS
Dough making machine with rotary
bowl. *MOTOKOV*

Sauce or vegetable strainer, with va-
rious perforated bottoms. *MOTOKOV*

Turkey coffee-mills. *MOTOKOV*

Coffee-mills BO. *MOTOKOV*

TRAMP pocket mills. *MOTOKOV*



Mills for spices BO - small barrels.
MOTOKOV

Maize grinders. *MOTOKOV*

Kitchen Robot

The machine can be driven from an
electric motor. *MOTOKOV*

55 KITCHEN UTENSILS

Onion slicers, can openers, slicers,
tomato cutters, etc.

MOTOKOV

Tinned Sheet or Wire

Baking forms, forms for pastry, veget-
able slicers, egg beaters, dish baskets,
etc. Large trays of 5 to 40 litre capa-
city, for canteens. *MOTOKOV*

56 FLAT-IRONS, COOKERS, LAMPS

Wick petroleum lamps with glass chimney. Hurricane lanterns. Brass petroleum cookers, noiseless petroleum

cookers and parts. Spirit cookers with cylindrical or round globe and parts. Oil stoves. *MOTOKOV*

57 CLEANING REQUISITES

Parquet shavings. Fine steel wool. ALORIT wool for washing aluminium kitchenware. Steel wool sponges. Poly-

amide sponges, multicoloured, for washing plates and dishes. *MOTOKOV*

58 CUTLERY

58/001 Cutlery

Plain steel and corrosion-proof knives. All kinds of butchers' knives. Artisans' knives. Folding knives. Plain or stainless pocket knives, hunting knives, daggers. Knife sharpeners. Stainless saw knives for hot pastry or tomatoes. Forged knives for cooks. Tweezers. Razor blades. Scissors and shears, sheep shearing shears. Hacking knives. Two-prong forks for meat. Potato scrapers. Fowl shears. Folding knives.

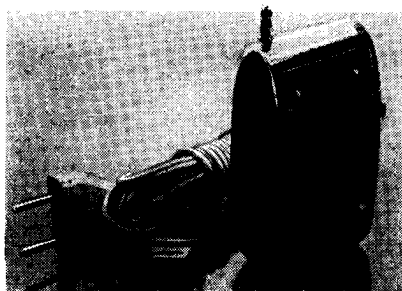
MOTOKOV

58/002 Shaving Requisites

All kinds of razor blades. Shavers made of plastics. *PRAGOEXPORT*

58/003 ALFA Electromagnetic Vibration Shaving Apparatus

Voltage 220/120 V, 6,5 W.



59 TABLEWARE

59/001 Table-Sets

Knives, forks and spoons with hollow handles, silver-plated or made of pressed or cast aluminium, with ALSA stainless knifeblades. Various silver-plated products for hotels or household. *MOTOKOV*

59/002 Tableware

Trays, vases, liqueur sets, bread crum pans for restaurants or household use in various shapes. *MOTOKOV*

59/003 Sundry Tableware

Cocktail-shakers, cocktail strainer, sets of trays for glasses, coffee-mills and coffee-machines, stainless gherkin tongs, stainless trays, boiled egg cutters, percolators, tea cups, stainless ice-cream cups, apple cutters, tea spoons, beer warmers. Corkscrews, can openers, nutcrackers, etc. *MOTOKOV*

60 ELECTRIC HOUSEHOLD APPLIANCES

Single-plate cookers, 145 or 180 mm. in dia., with or without change-over switch, two-plate 038 cookers with tubular plates.

Immersion cookers 181 and 182.

Electric flat-irons with thermostat and moistener, or plain flat-irons with switch.

Ironing press E 200.

Coffee-mill 024 with mixer and egg-beater.

Egg-beater in a glass vessel 433 N.

Double egg-beater.

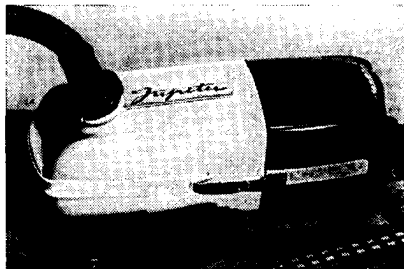
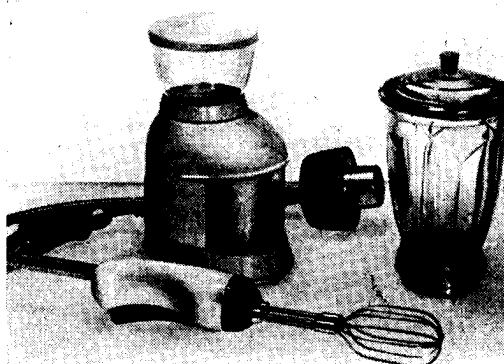
Five-speed mixer with fruit-separator.

Electric PORKERT kitchen robot UKS.

Parquet polishing machine 722.

PEROTA washer.

PEROBOT washer.



Square PEREX washer.

MORETA flow washer.

Linen drier.

Accumulating stoves.

Cushion for invalids.

Hot water tank.

Hair-drier No. 519.

Single-head shaving machine.

Vibrating shaving machine EM 550.

Double-head shaving machine.

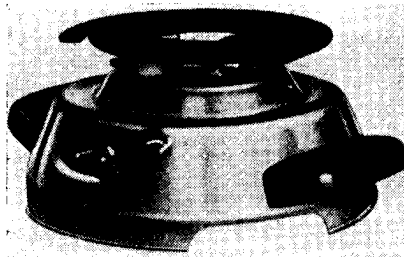
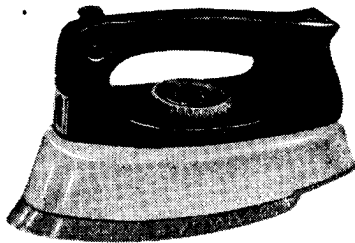
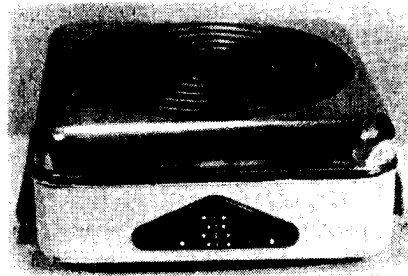
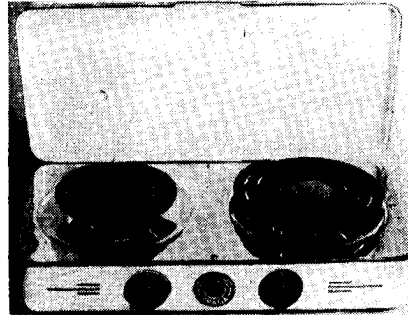
Spare baking plates for electric ranges,
145 or 180 mm. in dia.

VARENKA double-cooker for roasting
and stewing.

Electric oven with inspection window.

Electric kitchen range T 130.

Electric automatic kitchen range T 131.
MOTOKOV



61 HOUSEHOLD AND FOODSTORE REFRIGERATORS

Electric compressor type CALEX refrigerator, capacity: 100 litres.

Electric CALEX refrigerator, capacity: 150 litres.

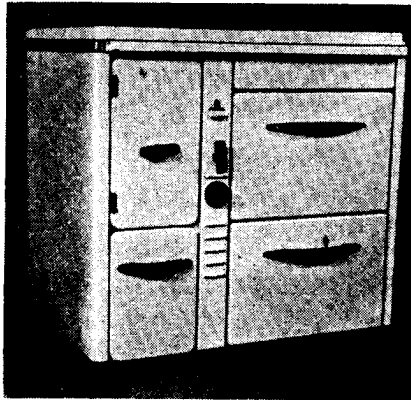
Electric ELEKTROSVIT absorption refrigerator, capacity: 60 litres.

ELEKTROSVIT household petroleum refrigerator, absorption type, capacity: 60 litres.

SVEZA refrigerating set, 10—200 cal. for refrigerators to 450 litres.

Refrigerating set of CALEX 100 litre compression refrigerator. *MOTOKOV*

62 HOUSEHOLD GAS APPLIANCES



Gas kitchen ranges with thermostat, oven inspection hole, with automatic ignition, etc.

Gas kitchen range with electric oven.

Gas kitchen range 116.

Automatic gas kitchen range.

Plain gas ovens.

Gas ovens with twin gas cooker 611.

Twin gas cooker with MORA 323 grill.

MORA 310 three-burner gas cooker.

Gas frier-cooker 811.

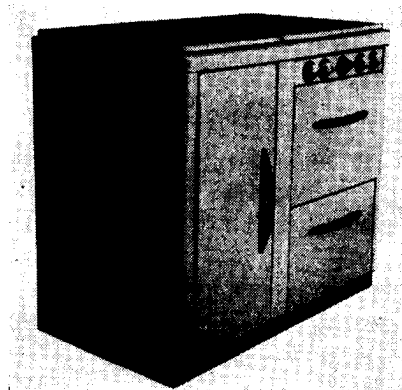
Gas hot water reservoir, capacity:

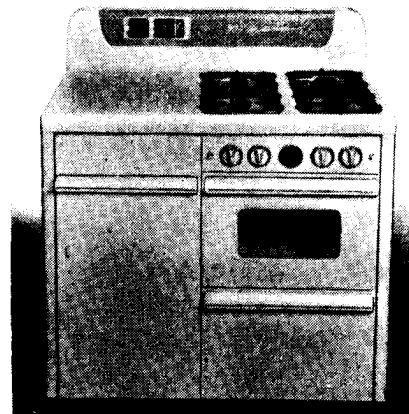
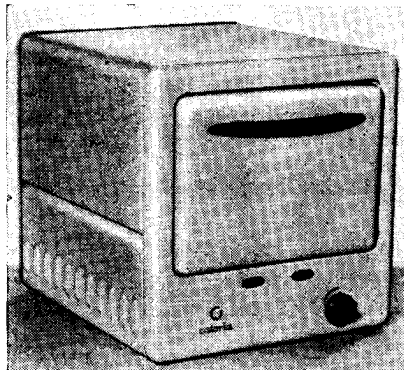
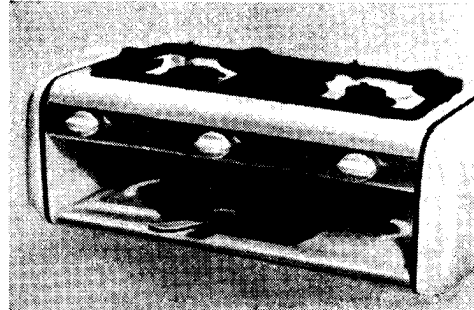
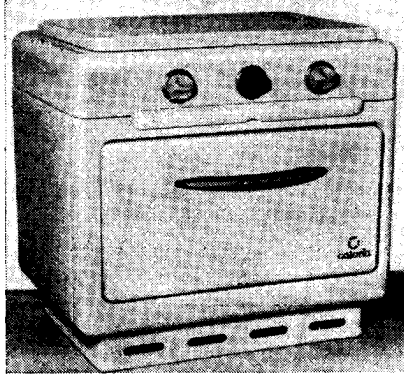
80 litres.

MORA P 5 Gas flow heater.

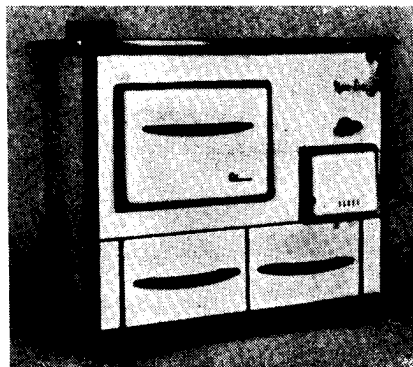
MORA PO 13, PO 35 gas flow heaters.

Bathroom gas water heater, type BRUTAR. *MOTOKOV*





63 COAL FIRED KITCHEN RANGES



FAVORIT 123 kitchen range with two baking ovens.

KS 144 combined gas and coal kitchen range.

MORA 125 coal fired kitchen range.

Coal fired kitchen ranges: LUXOR 18×33 cm, LUDO, MEOLUX 45, META.

KABOR kitchen range stove, enamelled.

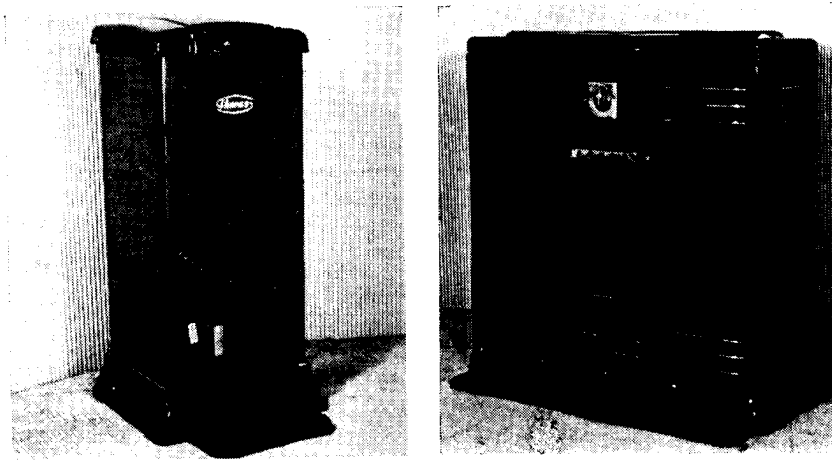
Coal fired kitchen range 502 for farmers, two ovens.

BRUTAR boiler type stove, coal fired.

Base of coal fired water heater.

MOTOKOV

64 STOVES, COAL FIRED



CLUB I and II, ŽIARA, THERMO 13,
PETR 8.

Hot-air stove 687 for large rooms.

Fireplace insert 1330.

MUSGRAVES 8 stove. *MOTOKOV*

65 PERAMBULATORS AND CHILDREN'S CARTS

Quilt, knitted or folding perambulators.

Bicycles, tricycles, puppet carts, scooters,
children's pedal automobiles.

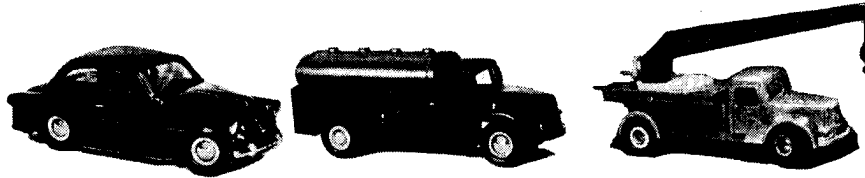
MOTOKOV

65/002

Perambulators

Deep and sports types of every description.





66 MECHANICAL TOYS

SOKOL aeroplane, fastened to an arm, driven by means of a flashlight battery motor.

Horizontal steam boiler, a suitable toy for children up to the age of 10, with accessories: a wind-mill, crane, power hammer, saw and transmission.

Vertical steam-engine with flywheel.

PEROTKA washer for girls up to the age of 14.

Motor car with clock-work. The motor car can move in any desired direction.

Flywheel type motor car, designed to move forwards or reverse.

Cistern. Clock-work drive.

Fire engine with telescopic ladder and hose. Clock-work drive.

Tilting platform truck. Clock-work drive.

Breakdown lorry. Clock-work drive. The lorry moves on straight and solid ground. It is provided with a revolving crane with jib, attached to its silon turntable.

Electric ŠKODA 1200 SEDAN motor car; electric motor drive; remote control.

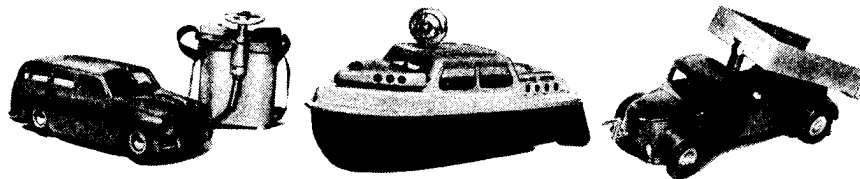
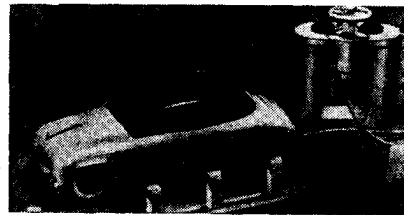
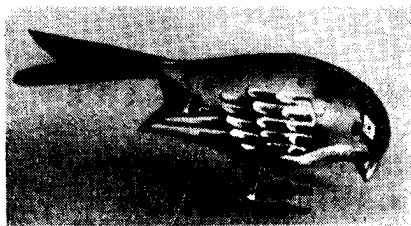
Ambulance, refer to the preceding item.

Clock-work motor car, figure eight circulating type.

Patrol-service boat; solid spirit fired diaphragm boiler.

Racing boat. Clock-work.

ORAVA launch. Most parts are made of silon fibres. The propeller is motor driven. PRAGOEXPORT



67 SPORTS GOODS



Skates, children's skates, figure skates, goal keeper's skates Canada, Special, Junior, Rytmus, Stadion, Elán, Mignon, Dasino, Mensor, King Leonidas.

Square aluminum food-boxes in various sizes. Round aluminum food-boxes with glass lining for butter, jam, etc. Aluminium canteens. Aluminium fieldbottles. Metal folding chairs. A complete line of fishing tackle. Various types of ski-binding. Ski edges, ski boot fittings, ski sticks.

Darling children's skates, Elite 123, Waltz 225, Sport 171 pointed skates, Junior 505 children's icehockey skates, 550 speed skates, Hockey Canada ice-hockey skates, Rekord 966/1, Zenith 906, Kraso 976 special figure skates, Canada 502 ice-hockey skates, Globus 811 take-off skates, Globus 811 Z figure skates. PRAGOEXPORT

68 LUMINAIRES 69 FLASHLIGHT BATERIES

68/001 Luminaires

Lighting fittings. Fluorescent tubes for workshops and rooms. Period chandeliers. Operating lights. GLASSEXP
MOTOKOV

68/002 Film Studio Illumination

Various designs of lights. Theatre reflectors. Mine lamps. Industrial outdoor lamps. Marine lanterns.

MOTOKOV

69/001 Pocket-Torches

MOTOKOV

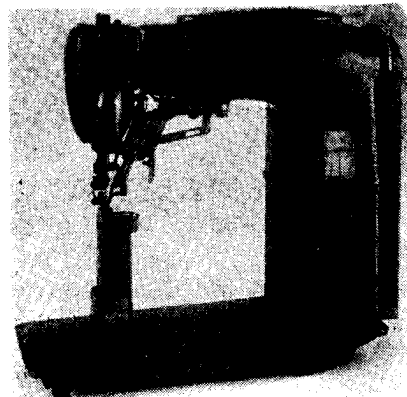
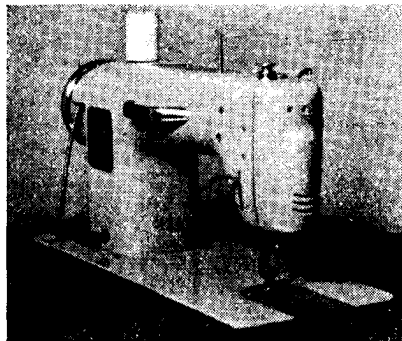
69/002 Bicycle Reflectors

Small, large, front and rear reflectors; dynamoes. MOTOKOV

70 HOUSEHOLD OR DRESSMAKERS' SEWING MACHINES

70/002

70/001



70/001

Household Sewing Machines

Lada 233, Lada 236 (N I 58) portable, Lada 132 portable, Minerva 122, 123, 124.
KOVO

70/002

Dressmakers' Sewing Machines

Minerva 224 single needle sewing machine, Two-needle sewing machine 1246, Single- or two-needle sewing machine 1057 with arm and feder. Footwear sewing machine 1090 with trimmer. Footwear single-needle sewing machine 1192.
KOVG

71 METAL TUBING FURNITURE

71/001

Household Metal Tubing Furniture

Drawing rooms, folding beds, couches, chess-board tables, flower stands, radio receiver stands, children's beds, beds, nightstands, chairs, arm-chairs, stools, dining room tables, garden furniture.
LIGNA

Desks, chairs, tables, lecturer's desks, black-boards.
LIGNA

71/003

Office and Workshop Furniture

Fire-proof cabinets, safes, planning cabinets, various filing cabinets, organ-plans, lockers.
*PRAGOEXPORT
MOTOKOV*

71/002

School Metal Tubing Furniture

71/004

Hospital Metal Tubing Furniture

LIGNA

72 SCHOOL AND OFFICE REQUISITES

Pencil sharpeners, stapling machines, perforators, numbering machines, letter files, letter stands, paper clips, drawing pins, nibs, etc. Letter balances, letter file mechanism, note book accessories, perforators, drawing-

boards, drawing requisites, pantographs, perspectographs, planimeters, school and technical mathematical instruments and parts, logarithmic rulers.

PRAGOEXPORT

73 SMALLWARE AND OUTFITTING ARTICLES

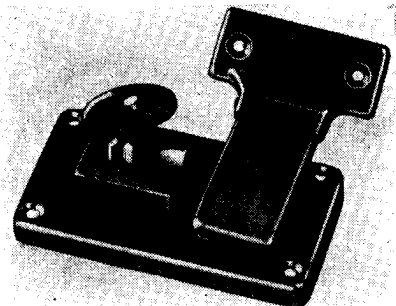
Shoe tacks, wooden pegs, heel tips, shoe buckles, trouser buckles, buttons, hooks, trouser hangers, cigarette cases, tobacco boxes, cigarette-lighters, pow-

derpuffs, various smokers'requisites, bagmakers'fittings (briefcases, trunks, etc), snap-fasternes, sew-on buttons, riveting buttons, fancy buckles, eylets

and hooks, velvets, barber's requisites, fitting for braces and suspenders, safety pins, film reels, seals, knitting needles, crochet needles, tin-openers, thimbles, slide fasteners, razor blade sharpeners.

Chainlets, blinds, etc. Buttons, upholsterer's tacks, handbag fitting, suit-cases, umbrella fittings, umbrellas, zip-fasternes, lipstick cases. All kinds of needles, card and gill pins. Key rings, coat hangers, joiners' fitting, spring-hooks, saddier's fitting. Curtain poles, mouldings.

PRAGOEXPORT



73

74 FITTINGS

Household-pipe, gas-pipe, laboratory, sanitary, porcelain fittings, central heating fittings, fountains, regulating cocks, air-valves, pressure gauge accessories, compressor fittings. Measuring instruments, such as gas-meters, water-gauges, pressure-gauges.

*PRAGOEXPORT
MOTOKOV
KOVO*

75 METAL CONTAINERS

50, 100, 200, 400 or 600 litre barrels. Drums, cylinders, transport cases. Dustbins. Narrow or wide neck cans. Tinned or aluminium milk-cans. Plain tins. Tea or coffee-tins, etc. Tubes and coils.

MOTOKOV

76 FURNITURE AND BUILDING FITTINGS

Brano automatic door-closers, Mortice and other locks. Builders' hardware, Bomero hinges, spring type closers, door stops, door catches, window fittings, door bolts, pulls. Builders' iron mongery, such as handles, knobs, window buffers, etc. Cylinder mortice door locks,

iron cylinders for locks, plain mortice locks. Furniture locks, tumbler mortice dead locks, castors, plain furniture locks. Curtain poles. Galvanized sets for sinks. Furniture and piano hinges.

MOTOKOV

77 HARDWARE

Braces, hand drills. Socket wrenches. Bricklayers' tools. Various types of pliers, hammers, hand vices, spanners and box spanners. Plate shears, watchmaker's tools. Electric solders, electric glue-pots. Tool kits. All types of vices.

Angle irons, water levels, measuring tapes, folding metres and measuring instruments. Shovels, bars, hoes, pick-axes, etc.

MOTOKOV

Rollerchains, Gall chains, Busch chains, Oil field chains, PIV chains.

78 PREFABRICATED BAYS

Garages 3×5 metres, bays 7×5 metres, 7×15 metres. Bicycle stands. *MOTOKOV*

79 ART

Manufacture of statues, plaques, badges, medals, grates. **MOTOKOV**

80 LAUNDRY AND CLEANING EQUIPMENT

Washing machines, hydroextractors, ironing presses, drying equipment and implements. **MOTOKOV**

Barbers and Hair Dressing Equipment

80/002

ÚSV 2 Hair Drier

for drying of hair in larger hair dressing shops. There can be connected up to six drier to one central ventilator.

80/003

Permanent Wave Electric Apparatus

Operational Voltage 220 V. Input 1080 W. Weight 25 kg.

80/004

DRUKOV Barbers and Hair Dressing Equipment

Stool. FAK barbers semi-American chair. The chair is practical, the back is tiltable. The men's table No. 1. serves as corner table if there are more tables. Ladies metal chair can be used either for manicuring or hair drying. Men's table No. 2 for men's service can be also used as a centre table. Ladies table No. 103 for simple service. Ladies table No. 107 for several operations. Footrest, children revolving, ladies chair of metal has a tiltable back; manicuring table.

Hospodářské noviny

an economic weekly, keeps well informed economic workers whose primary interest is to follow and foster

- economic utilization of new technology
- increase of the productivity of work and
- decrease of costs
In industry, building industry, transport, agriculture and trade, as well as
- economic utilization of raw materials, fuel and power

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81 MEDICAL APPARATUSES

Examples of complete medical working places, e. g., complete dental surgery, complete operating theatre, X-ray equipment. Mobile equipment for mass chest survey of large groups of citizens, mobile dental ambulance for the visitors of the exhibition. Of the exhibited medical apparatuses we introduce the following:

81/001 **STE 36 Dental Oil Sterilizer**

For sterilization of dental handpieces and angles at a temperature of 140—180 C. *KOVO*

81/002 **CHIROSTERIL Electric Hot-Air Sterilizer STE 43**

For sterilization of surgical instruments, dressing material, laboratory glass-ware, etc. *KOVO*

81/003 **Sterilizing Dressing Containers**

Designed for sterilizing and sterile storing of dressings, waddings, bandages, etc. *KOVO*

81/004 **Sterilizing Dressing Drums**

Designed for sterilizing and sterile storing of dressings, waddings, bandages, etc. *KOVO*

81/005 **NEOSTERIL Sterilizer with Pedestal**

Electric hot-air sterilizer for sterilization of surgical instruments, glass-wares, dressings, etc. The required sterilizing temperature is automatically controlled. Sterilizing temperature range: 60°-200 °C. Power consumption: 1000 W. *KOVO*

81/006 **CHIRANA M 96 Mobile Operating Stool**

For comfortable working and minimizing of the dentist's fatigue during long-lasting operations. *KOVO*

81/007 **Syringes**

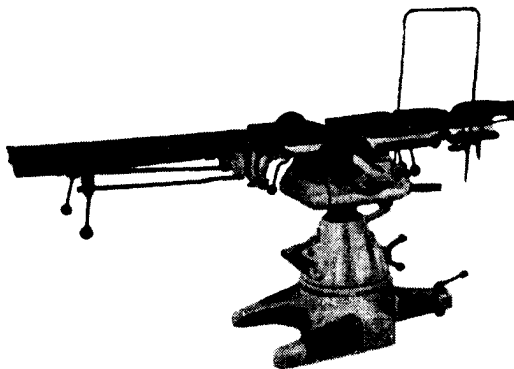
Different sizes suitable for injection treatment. Sterilizable at a temperature of up to 2000 °C. *KOVO*

81/008 **Hypodermic Needles**

Made of stainless steel, different sizes. *KOVO*

81/009 **Mobile Stand Operating Light**

The light beam can be adjusted to any required direction. Uniform, intensive and shadowless illumination of the operating area is ensured. *KOVO*



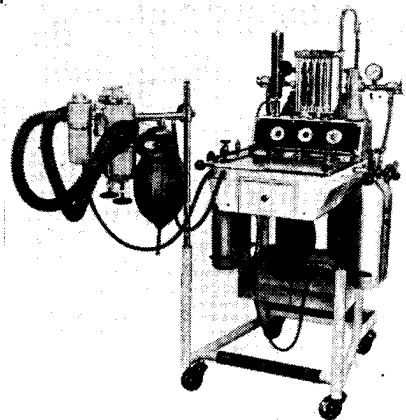
81/010

81/010 **CHIRUS Operating Table**

Designed and suitable for all kinds of routine surgical operations including orthopaedic ones. *KOVO*

81/011 **CHIREX UNIT**

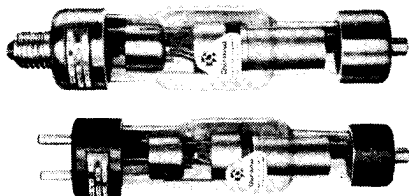
The mobile case of this unit houses an electromotor with controllable revolutions and a flexible shaft to which rotating or oscillating instruments can be attached which are required to perform different surgical operations. *KOVO*



81/012

81/012
N-42 Anaesthesia Apparatus

Intended for short as well as long-lasting surgical operations. Ensures long-lasting and deep anaesthesia as well as controllable respirations. KOVO



81/013

81/013
X-ray Tubes and Rectifier Valves

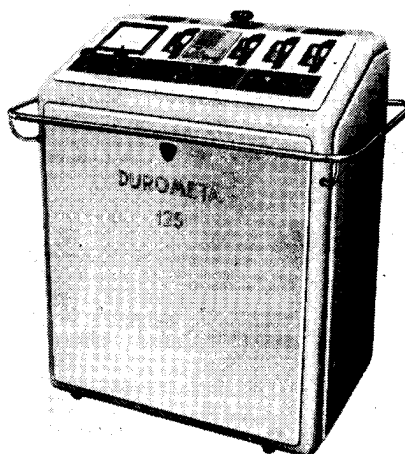
From the smallest to the rotating anode types. Set of rectifier valves suitable for X-ray units of different output. KOVO

81/014
STOMAX Dental X-ray Unit

Suitable for radiography of teeth, jaws, skulls, bones and different parts of the body. Fitted to a mobile stand. Output of X-ray tube: 65 kV, 15 mA. 40-60 c/s. KOVO

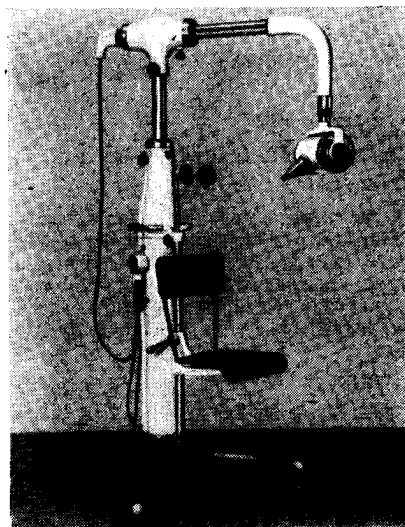
81/015
CHIRAX Portable X-ray Unit

Small portable X-ray unit of high output, intended for radiography of bones, fluoroscopy can be carried out by means of a hand fluoroscope. The X-ray unit is easily portable in two cases. Maximum output: 65 kV, 15 mA. KOVO



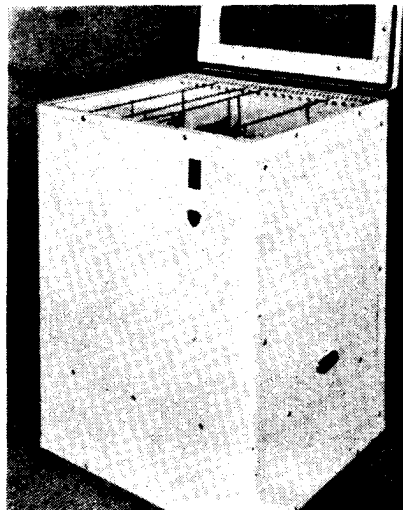
81/016

81/014

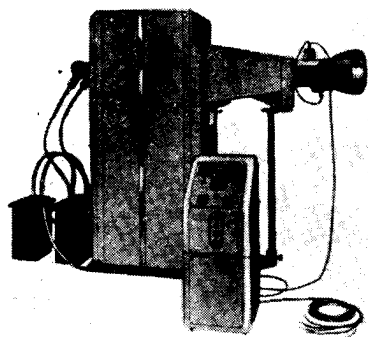


81/016
DUROMETA 125 Four-Valve
Diagnostic X-ray Unit

Suitable for radiography as well as fluoroscopy. Maximum output of high-voltage generator is 125 kV during radiography and 100 kV during fluoroscopy.
KOVO



81/019



81/017

81/017
Photofluorography Equipment

Intended for mass chest survey of large groups of citizens.
KOVO

81/018
MOTOSKOP 312 X-ray
Examination Tilting Table

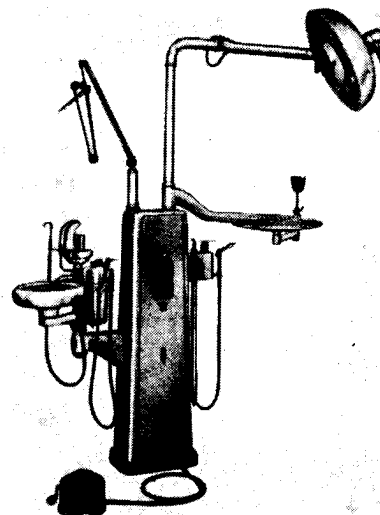
Designed for fluoroscopic and radiographic examination.
KOVO

81/019
X-ray Film Drying Cabinet

Intended for quick drying of X-ray films.
KOVO

81/020
UNIDENT B Dental Equipment

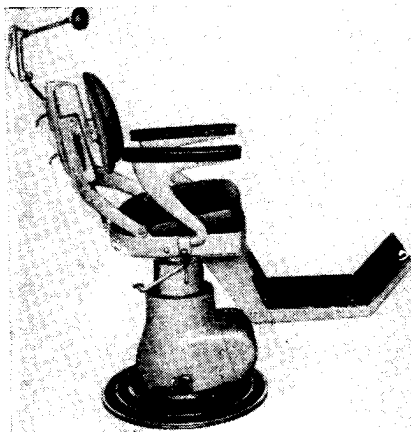
A well equipped outfit for dental surgeries.
KOVO



81/020

81/021
COMPLET E Universal Dental
Equipment

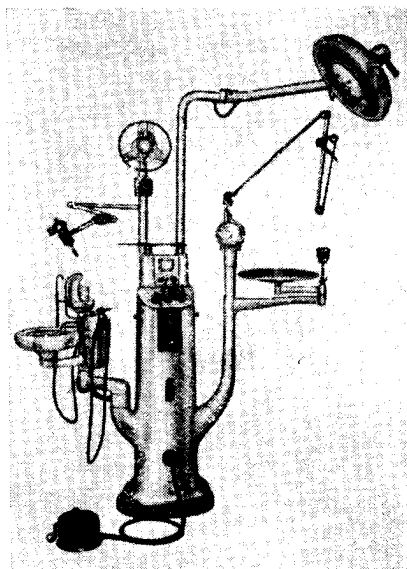
Fitted with MINIDENT dental X-ray unit and air compressor. This equipment is provided with all the necessary appliances and instruments required for routine dental work.
KOVO



81/022

81/022
CHIRANA M 94 Motor Dental
Chair

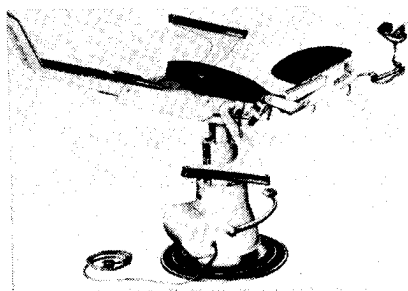
A double-telescope dental chair with electric motor drive. Power consumption: 200 W.
KOVO



81/021

81/023
CHIRANA M 97 Combined Motor
and Oil Pump Anaesthetic Dental
Chair

By depressing the raising lever the electromotor of the double-telescope oil pump is switched on and the chair is raised. During power supply failures, the oil pump can be actuated by the foot drive.
KOVO



81/023

82 PLUMBERS' AND BUILDING MATERIALS

Indoor and outdoor piping, enamelled washing troughs, water taps with outlets, sinks, W.C.'s, tanks, basins, feeding apparatus, cast boilers and sheet iron

boilers for wall mounting, enamelled wall-tiles, enamelled or sheet iron baths, children's baths, sinks.

MOTOKOV

83 FARMING REQUISITES

Steamers for potatoes, for solid fuels.
Electric potato steamers, etc.
MOTOKOV

**84 REQUISITES FOR THE TEXTILE
INDUSTRY**

Various bobbins. *PRAGOEXPORT*

**85 BOWDEN CABLES, ARMOUR HOSES,
HELMETS**

Helmets of plastics for miners and
motorcycle riders. *MOTOKOV*

Machines

MAFLEX grinders. *MOTOKOV*

86 STEEL KITCHENS

LIGNA

LIST OF NOVELTIES

- | | |
|---|---|
| 01/001 Hydrogen Cooled Synchronous Compensator of DK 6176/2 Series | 02/031 Unit Type SVAREX Exhaustor |
| 01/006 Power Transformer 68,000 kVA, 115 ± 5 p. c./15 kV | 02/036 } Radial Flow Fans |
| 01/007 Test Transformer Set, 350 to 1050 kV | 02/032 } |
| 01/008 Three-Phase Short-Circuit-Proof Transformer | 02/039 Electric Separator for Air Cleaning |
| 01/012 Voltage Transformer COF 220 | 02/168 Model of a Radiant Steam Boiler, oil fired, capacity 125 tons per hour, 75 atm., 525° centigrade of superheated steam |
| 01/034 Contact Test Rectifier | 04/001 Spiral Heat Exchanger, Type K-K |
| 01/035 Cable Filled with Oil under Pressure, 110 kV with terminals | 04/003 Concentric Cylinder Heat Exchanger |
| 01/038 Three-Phase Squirrel Cage Induction Motor RPU 9-36 R/20 | 04/004 Combined Heater and Exchanger, 100,000 kcal/hr. |
| 01/049 Spencer's Diaphragms | 04/011 Drum Type Chamber Filter |
| 01/060 Insulation Tester, Type M 029, 220 V, 50 c/s | 04/012 Electrostatic Separator |
| 02/001 Travelling Raking Grate | 04/013 Stream Gas Washer |
| 02/002 Block of Flag Boiler Tubes | 04/016 Catalytic Purifier |
| 02/003 Differential Mercury Pressure Gauge up to 200 atm. | 04/018 Water Treating Unit, capacity 2 litres per sec. |
| 02/004 Differential Pressure Gauge with Oblique Arm for pressures up to 200 atm. | 05/003 Semi-Automatic Pressure Die-Casting Machine CLP 180.30 |
| 02/005 Semi-Automatic Sand Filter | 05/010 Revolving Furnace |
| 02/007 Condenser-Steam Cooler | 06/004 Straight-Sided Crank Press LKT 250/160 |
| 02/008 Fully Automatic Oil Burner | 06/005 Straight-Sided Crank Press LTL 160/1100 |
| 02/009 Turbulence Burner PH 8 for the combustion of gas fuels with a short flame | 06/008 Three-Roller Rounding Machine X Z M 200/2, power operated |
| 02/014 Double-Casing Backpressure Steam Turbine | 06/010 Friction Screw Press LFK 400/700 |
| 02/016 Runner Blades of a Condensing Turbine | 06/014 Fully Automatic Thermoplastic Moulding Press |
| 02/017 High-Pressure Feed-Water Heater | 06/015 Hydraulic Injection Moulding Press CBA 160-1 for the treatment of thermosets |
| 02/022 Condensing Steam Turbine VK 50 | 06/021 Hydraulic Forging Press CKV 1000 |
| 02/023 Rotor of a steam-Gas Turbine of 4.4 MW capacity | 06/022 Straightening Press CDK 630 |
| 02/024 Regulating Equipment of Steam Turbines for Medium Outputs | 06/023 Hand Operated Hydraulic Press LTH |
| 02/028 Single-Wheel Turbo-Blower, 10,000 cu.metres p. hr., 1.6 atm. | 06/026 Automatic Coil Spring Machine Au 8 |
| 02/029 Unit Exhaustor, type JOVUN | 07/005 Centre Lathe SS 50 K |
| 02/030 Industrial Vacuum Cleaner | |

- | | |
|--|--|
| 07/006 Universal Centre Lathes SN 55 to SN 71 | 08/010 Bright Galvanizing Plant with Automatic Control of Current Density |
| 07/007 Centre Lathe SU 63 A | 08/011 Cement Hand Grinder |
| 07/017 Single Spindle Automatic Lathe AD 25 | 08/013 Universal Belt Polishing Machine, Type ULS |
| 07/018 Camless Automatic Lathe AB 80 | 08/021 Air-Cooled Polishing Wheels |
| 07/019 Vertical Miller FVS 16 | 08/022 Liquid Abrasive Honing Plant |
| 07/020 Knee Type Milling Machine FB 50 V | 08/029 Pressure Vessels |
| 07/021 Knee Type Milling Machine FA 5 U | 10/002 Electric Arc Welding Set K-200 |
| 07/022 Milling Machine FRE 03 | 10/005 Petrol Driven Electric Welding Set BS-320 |
| 07/023 Vertical Milling Machine FV 1000 | 10/006 Argon Welding Machine ARC T 012 |
| 07/030 Horizontal Drilling Machine H 63 A | 10/007 Argon Welding Machine ARC T 032 |
| 07/031 Universal Grinder BUA 31 | 10/008 TRIODYN K-320 Electric Arc Welding Set |
| 07/033 Horizontal Surface Grinder BRH 25 | 10/009 Ionisator T 001 |
| 07/038 Crankshaft Grinder BKU 63 | 10/011 Electronic Miniature Spot Welder Control |
| 07/047 Automatic Lathe ANK 90 for squaring the ends and machining the holes of conveyor bearing tubes | 10/014 Electronic Seam Welder Control EROS-S 200 |
| 07/048 Unit Head Machine 77073 for the machining of front wheel hubs | 10/019 Automobile Body High-speed Spot Welder BK 60 |
| 07/049 Unit Head Machine 77077 | 10/023 Automatic Butt Welder TAU-80 |
| 07/050 Fine Boring Machine B 2 | 10/024 Portable Gyroscopic Spot Welding Gun KPH 120 |
| 07/051 Automatic Production Line LX 1 | 10/026 Portable Oxygen Cutting Machine RSO micron |
| 08/001 Magnetic Thickness-Gauge | 10/027 Miniature Uniform Pressure Oxygen-Acetylene Welding Set L 54 |
| 08/002 Automatic Viscosity Regulator and Recorder for Paints and Similar Liquids | 10/029 Dissous Gas PSA and Propane PSPB Soldering Sets |
| 08/004 Automatic Dipping Plant for Electrical Resistors, Type LAO 153 | 10/030 Closing Valves |
| 08/005 Sherardizing Process Using Zinc Ashes | 10/030 Cutting Extension for Circular Holes RNK |
| 08/006 Electrometallizing Semi-Automatic Gun, EMP/2/57 | 10/030 Cutting Extension for Rivet Heads RNN |
| 08/008 Airless Spraying Equipment for Electrostatic Fields | 10/031 Welding Machine SUM 1000 |
| 08/009 Chromium Diffusion Plant for the Treatment of Steel Components Designed to Substitute Brass | 10/032 Output Regulator RV-01 |
| | 10/033 Automatic Welding Machine for Boiler Chamber Sockets SNK-500 |
| | 10/034 Semi-Automatic Aluminium and Stainless Steel Welding Machine SAP 400 |

- | | |
|--|---|
| 10/035 Oxygen Cutting Machine
RNS 1000 | 12/007 Surface Flame Hardening |
| 10/036 Miniature Spot Welder MB 2 | 12/008 Optical and Magnetic
Dilatometers |
| 10/038 Model of High-Speed Spot
Welder BK 60 | 12/011 Vibratory Equipment for
Fatigue Tests of Turbine Blades |
| 10/040 Welding Adapter T-60 | 12/012 Vibratory Equipment for Mea-
suring the Resonant Frequency
of Turbine Blades |
| 11/001 Two-Stroke Air-Cooled SLAVIA
Oil Engine 1 D 80 | 12/013 PEVA 4 Balacing Machine |
| 11/002 Single-Cylinder Two-Stroke
Water-Cooled SLAVIA Oil
Engine 1 D110 | 12/015 Axial Test Compressor, 14 to
22,000 r. p. m. |
| 11/003 Single-Cylinder Four-Stroke
Air-Cooled SLAVIA Oil
Engine 1 ST120 | 12/016 Blade Measuring Diffusor with
Semi-Automatic Counter |
| 11/009 SLAVIA Diesel-Electric Gene-
rating Set with an output
of 7.2 kVA | 12/018 Precision Transducers for High
and Higher Temperatures |
| 11/012 ŠKODA Marine Oil Engine,
Type 1 L 110 | 12/020 A model combustion Chamber
for the second stage of blast-
furnace gas combustion |
| 11/016 Marine Diesel Generating Set
with 6 L 110 ŠKODA Engine | 13/006 Dynamoelectric Milli-Second
Firing Machine DMDERS/54 |
| 11/018 ŠKODA Oil Engine 4 R 140 | 13/014 Three Product Coal Separator
with Heavy Medium Closed
Circuit |
| 11/019 Emergency Automatic 150 kVA
Diesel-Electric Power Station
with ŠKODA 6 S 160 Engine | 14/011
—013 Resistance Thermometres and
Pyrometers |
| 11/020 Mobile 125 kVA Diesel-Electric
Power Station with ŠKODA 6 R
140 Engine | 14/016 Salinometer |
| 11/021 ŠKODA Oil Engine 6 L 160 | 14/027 Magnetic Controller |
| 11/022 ŠKODA 450 kVA Diesel Gene-
rating Set | 14/028 Self-Operated Temperature
Controller |
| 11/023 Direct Reversing ŠKODA 6 L
275 P Marine Oil Engine | 14/029 Manostat |
| 11/032 ČKD Hydraulic Transmission
Type H 350 L | 14/036 Air-Operated Control
Instruments |
| 11/033 Vertical Single-Stage Two-
Stroke Double-Cylinder Air
Compressor 2 SK 200 B | 14/044 Air-Operated Pressure
Transmitter |
| 11/041 Air-Cooled Rotary Compressor
ATMOS VR-200 | 14/045 Air-Operated Temperature
Transmitter |
| 11/045 Mobile Compressor ATMOS
DK 4 R | 14/046 Air-Operated Level
Transmitter |
| 12/001 Ultrasonic Impulse Equipment | 14/047 Air-Operated Flow Transmitter |
| 12/002 Gammography used for the
production of fittings and for
checking welds | 14/048 Air-Operated pH Value
Transmitter |
| 12/003 Contactless measuring of sheet
thickness vy means of radio
active isotopes | 14/049 Central Pneumatic Relay |
| 12/004 Recording equipment for auto-
matic ultrasonic testing of
bearing pans | 14/050 Hand Relay No. 07031 |
| | 14/051 Control Panel No. 07041 |
| | 14/052 Booster Relay No. 07021 |
| | 14/053 Diaphragm-Operated Control
Valves |
| | 14/059
—062 Electric Power Units with
Rotating Output Shaft |

14/072	Maxigraph Křižik M6S	17/011	Vibrating Screen VSM 1
14/073	Despatching Cabinet Křižik DS6	17/017	Mortar Mixer MM 250
14/074	Accurate Three-Phase Three-Wire System Watt-Hour Meter P3	17/028	Snow Plough SF
14/089	Automatic Paralleling Instrument RFS	17/031	Tank VLH, 10 T
14/096	Measuring Oscilloscope T 565	17/032	Truck for Loose Pulverised Materials with Overpressure Discharging Equipment
14/099	Double-Beam Oscilloscope D 564	17/037	Concrete Finisher FB 3.75
14/101		17/039	Cement Spreader
—104	Polaroscope P 576	17/040	Automatic Sweeper ZSI-T 805
14/103	Preamplifier Z 562	17/041	Highway Strip Widening Roller
14/111	Quick-Acting Distance Protective Relay for earthed nets of very high voltages D110	17/043	Concrete Pump CB 12
14/112	Universal Moving Coil System Relay UCR	17/044	Hot-Air Generating Set
14/117	Time Relay TD1	17/045	Concrete Mixer KM 10
14/127	Remote Measurements	17/046	Continuous Weighing Equipment
14/128	Magnetic Amplifier	17/047	Tank for Cement Spreader
14/129	ROME Magnetic Speed Regulator of d. c. Machines	17/048	Hydraulic Vibration Press for the production of hollow blocks
14/131	Pilot-less Remote Control (of cranes)	17/049	Vertical Stationary Cutter of Refractory Materials SVF 1
14/132	Non-contacting Thickness Meter	17/050	Model of a Line for the Production of Longitudinal Parts
14/133	Loss-angle Meter	17/051	Single-Axle Tractor T 180
14/134	Ferrograph	17/052	Off-Road Trailer TV 10
14/135	Ferrometer FM 02	18/002	Bucket Elevator
14/136	Quantity and Quality Analyzer	18/003	Mechanical Shovel with Double Hopper, Type MLP 2
14/137	Transient Phenomena Recorder	18/004	Loader, Type Brom
14/138	D. C. Tachodynamos T 1, TK 2	18/005	Resonance Conveyor
14/139	Two-phase Induction Servomotors SMA 1, SMA 2.5, SMA 5	18/008	Battery Tractor, Type AT 1521
14/146	Control Oscillograph	18/021	Flowroll Gravity Conveyor
15/008	One Action Pulling Over Machine by Cementing	18/028	Low Lift Truck, Type NZV 1200
15/012	Universal Heel Attaching Machine	18/030	Hoisting Platform, Type MSP 350
15/020	Single-Cylinder Automatic Knitting Machine JDa-34	18/031	Hoisting Platform, Type MP 1500
16/029	Maxima-Front	18/034	Palette I
17/006	Concrete Mixer, 100 cu. metres per hour	18/035	Overhead Travelling Grane 50/8 T
17/007	Concrete Mixer C 501	18/036	Typified Crabs
17/008	Hollow Block Machine T 2	18/048	Sectional Wheel Conveyor KD 2000
17/009	Mortar Pump and Plastering Machine OB 4	19/005	Four-Roller Mill, Type MH
		19/007	Automatic Meat Mincing Machine, Model 112

- 19/008 Electric Bowl Meat Cutter, Model 127
- 19/009 Vacuum Sausage Filling Machine, Model 157
- 19/010 Automatic Mixing Machine, Model 143
- 19/011 Disintegrator 131
- 19/018 Plate Type Milk and Cream Pasteurizer, Model PD 1000
- 19/020 Butter Churn, Model 4 MV 400
- 19/021 Stainless Butter Churn
- 19/022 Ripening Tank
- 19/024 Carbonator - Filling Machine
- 19/035 Crushed Ice Plant
- 19/036 Automatic Regulating Apparatus
- 19/037 Freon Condensing Units
- 19/038 Refrigerator Show Case for Self-Service
- 19/038 Double Refrigerator Show Case for Self Service
- 19/040 Automatic Electric Refrigerator SA 900
- 19/041 Display Counter CS 630
- 19/044 Universal Mixing and Kneading Machine, Type S 2
- 19/049 Thermo-Case TB 20
- 19/050 Mobile Crushed Ice Plant
- 19/051 Hypothermic Apparatus
- 19/052 Evaporative Condenser Unit F 12
- 19/053 Oil Pressure Control Device
- 19/055 Pressure Regulating Valve
- 19/056 Suction Line Valve
- 19/057 Automatic Hydraulic Valve
- 19/058 Overpressure Control Valve, Type PJA
- 19/062 Relief Valve JV 1 and JVA 1
- 19/063 Fitch's Measuring Apparatus
- 19/073 Continuous Pastry Forming Machine
- 19/082 Vibratory Separator for Precleaning
- 19/083 Cross Beating Mill SU 4
- 19/086 Seven-Cylinder Gutcasing Cleaning Machine MV - 195
- 19/087 Band-Type Machine for the Removal of Cherry Stems
- 19/089 Baking Plate Scraper 475
- 19/090 Vegetable Slicer
- 19/092 Automatic Weighing, Measuring and Registering Machine for loose materials A-1
- 19/093 VULKAN Mixer, Type 430
- 19/094 Flour Sifting Machine KPM-I/3000
- 19/095 Small Sifting Machine MPZ-I-300/2500
- 20/001 Diesel-Hydraulic Locomotive, Output 400 H. P. 1435 CN 400
- 20/002 Diesel-Electric Locomotive Co'-Co', Output 1650 H. P. - T 698.0
- 20/003 Electric Locomotive 21E for Open Pits
- 20/004 Diesel-Electric Locomotive, Bo-Bo Type, Output 750 H. P. - T 435.0
- 20/006 Eight-Wheel Express Coach without Compartments, Type Bai
- 20/015 Diamond Bogie for trucks
- 20/016 Model of an Eight-Wheel Motor Car of M 230.4 Series
- 20/017 Model of a Suburban Electric Four Car Unit
- 21/001 Shaft Guide
- 22/053 High-Pressure Rainer ZV-2000
- 22/081 Mobile Pumping and Measuring Group
- 22/082 Rotary Flow-Meter L 4000
- 22/083 Motormeter
- 22/085 Oil Piston Hand Pump
- 24/004 Sports Aircraft LD 40 Meta Sokol
- 24/007 Sports Aircraft L 200
- 24/011 LUN 1207 Horizont
- 24/013 Speedometer up to 400/800 km/hr. LUN 1103
- 24/024 Small Engine with Glowing Plug Vitavan 2.5 and 5 c. c.
- 26/001 Double-cell Photocolorimeter
- 26/002 Photocolorimeter Minor
- 26/005 Multobat II
- 26/006 Multobat III
- 26/009 Penning Vacuum Meter

26/010	Flowmeter with induction transmission	34/019	Air-Rifle with Magazine for 30 shots
26/011	Engler Viscosimeter	34/019	Small Bore Pistol 22 Short
26/014	Electromagnetic Titration Mixer	34/025	Automatic Small Bore Rifle ZKM 561
26/015	Oil Oxidising Number	34/026	Small Bore Rifle ZKM 457 for target shooting
26/016	Portable Smoke Meter	34/031	Over and Under Shotgun, cal. .12
26/017	Thermostat	34/038	Universal Slaughtering Device JAT 54/I
26/018	Diffusion Oil Vacuum Pump	36/012	Shift Control Clock DK-3
29/005	Thyratron 25 kV/1000 A	38/007	Škoda 450 Roadster - Convertible
29/006	Tacitron 80 mA and 500 mA	38/008	Tatra 603
29/007	Rectifying Discharge Tube with a cold cathode 2 kV/4 mA	38/009	Škoda 445
29/008	Rectifying Discharge Tube with a cold cathode 1kV/100uA-13 TA 9	39/003	Motor Cycle Jawa-ČZ 250 c. c.
29/009	Screen 181 OP 44/M	39/004	Motor Cycle Jawa-ČZ 350 c. c.
29/010	Quanticon 41 QV 40	39/013	Jawa 350 Race Motor Cycle
29/012	Superorothycon 61 QM 40	39/015	Jawa-ČZ 250 c. c. Motor Cycle
29/013	Oil Diffusion Suction-Pump	39/016	Jawa-ČZ 350 c. c. Motor Cycle
29/014	Vacuum Unit 300 litres per sec.	39/022	PIONÝR-JAWA 50
29/015	Oil Diffusion Suction-Pump 500 litres per sec.	40/001	Škoda 706 RTO Bus
33/038	Magnifax II 6×9	40/002	Škoda 706 RTO Motor Coach de Luxe
33/061	Macro-Equipment	40/003	Škoda 706 RTO Bus, Municipal Model
33/064	Rewinders for rewinding of 8-mm and 16-mm film	40/004	Škoda 706 RTO Motor Coach
33/068	Reproducing equipment for Opemus II	41/004	N 1 OCH Refrigerator Trailer for T 137 Tug
33/069	Set-up Shutter	41/006	Tatra 141
33/070	Short-type Tripod Reducing Sleeve	41/007	Tatra 137
33/072	Slide Projector 11×14 mm	41/008	Tatra 137 S 1
33/073	Push-button Release	41/009	Tatra 138 A
33/074	Base-board with Drawer	41/010	Tatra 137 NT
33/075	Reproducing equipment for Magnifax II	41/013	Praga V3S Tipper
33/076	Masking equipment for Exposure Tests	41/014	Praga S5T
33/077	Macro-Adapter for Magnifax II	41/015	Praga S5T Tipper
33/077	Macro-Adapter for Opemus II	41/016	Praga S5T Platform Truck
33/078	Opemus Illuminator	41/018	Škoda 706 RTTS Tug
33/080	Reproducing Equipment for Microma	42/001	Š 706 ROK-KUKA Dust Bin Collector
33/081	Anamorphot	42/002	Š 706 AKVMRT Municipal Sprayer
		42/003	V3S Petrol Tanker
		43/003	Trailer-Tanker

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43/005 A 10 Trailer	50/061 Tractor Binder ŽVZ 210
50/006 3 PN-30 Tractor-Mounted Three Bottom Plough	50/091 Hay Blower with Feeding and Crushing Attachment, Type VSDP
50/007 3 PN-30 Mounted Three- Tractor Bottom Plough	50/092 Two Wheel Trailer DP 2.5 S
50/008 4 PN 30 Tractor Mounted Four Bottom Plough	50/094 Farm Wagon PV 2.5
50/011 2 PNO-35 Mounted Two Bottom Reversible Plough	50/095 Manure Loader NH-100-A
50/032 KPZ 260 Trailing Cultivator	50/097 Manure Spreader, mounted
50/048 Rotary Cutter RRM	50/125 Grain Dusting Box OSO-57
50/050 Flax Picker with Sheller and Binding Attachment SLOZ	81/001 Dental Oil Sterilizer STE 36
50/051 Flax Picker, Type SLUZ	81/002 Electric Hot-Air Sterilizer Chirosteril STE 43
50/055 Food Mixer, Type MJK-300	81/020 Unident B Dental Equipment
50/056 Potato Grader TB 10	81/021 Complet E Universal Dental Equipment

CATALOGUE SUPPLEMENT

- | | |
|---|---|
| 01/010 1200 kVA Transformer | 05/020 Shell Core Blasting Machine |
| 01/017 Switchgear Instruments for very high voltages | 05/021 Shell Gluing Press |
| 01/026 6 kV Switchgear | 05/022 Shell Mixer |
| 01/030 Dry Rectifiers | 05/023 Foundry Laboratory |
| 01/033 Rotary Rectifier 0.2 A, 75 kV | 05/025 CT Preparations |
| 01/036 D. C. Motor for Rolling Stand, 600 kW, 500 V | 05/026 CT Reduction |
| 01/045 Series of Electromagnetic Contactors | 05/027 CT Spraying-on Gun |
| 01/046 Contactor Box SR 1600 | 05/028 Grate |
| 01/065 Induction Regulator | 05/029 Small Dressing Plant (drawings) |
| 01/066 Compensating Transformer | 05/030 CT Regeneration |
| 01/067 Switchboard and Control Desk | 05/031 Wet Regeneration |
| 01/096 Weatherproof Fuse, 35 kV, 400 MVA, up to 25 A | 05/032 Water Jet Machine of Medium Size |
| 01/104 Measuring air-pressure track with accessories | 06/027 Eccenter Press LEN 105 |
| 01/128 Explosion-proof Instruments and Equipment | 06/031 Tilting Drawing Press with hold-down cam, type LNT 25 |
| 01/133 Auxiliary Relay R 4 - 122, R 10 - 123 | 06/032 Eccenter Press LE 50 S |
| 01/134 Selenium Rectifiers for Battery Charging | *07/016 Tool Grinder BPH 20 |
| 01/135 Selenium Rectifiers used in galvanic technique | *07/043 Screw Cutting Lathe ZRV 64 |
| 01/136 Selenium Welder, 200 A | 07/062 Hardening Machine VAN with generator GV 201 |
| 01/139 Hydraulic Tongs | 07/067 Electroabrasive Grinder DJF 18 |
| 01/140 Three-phase Transmission Motors | 07/069 Watchmaker's Lathe |
| 01/141 One Phase of VV 220/d — 220 kV air-pressure switch | 07/070 H. F. PVC Welding Machine, type EDS 4 |
| 01/143 Flexible Shaft Grinders | 07/072 Millier FA 4 H |
| 01/144 Technical Porcelain | 07/073 Miller SH 2 A |
| *02/180 Steam Turbine Drying Set | 07/074 Vertical Heads VH 2 C |
| 03/159 DRUKOV Condensate Lifter, Type ZPS, Size 2 | 07/076 Two-Spindle Drilling Machine V 32/2 |
| 04/014 Absorption Column | 07/077 Special Machine for the Machining of Bevel Pinion Holes in the Chuck Body |
| *04/015 Extractor, 10 cu. metres | 07/078 Special Spindle Grinding Machine BE 7/3 |
| 04/027 Hydroextractor, 1500 in dia. | 07/079 IHA Hydraulic Control |
| 04/029 Transformer Oil Filtering Plant, capacity 2000 litres p. h. | 07/080 High-pressure Gear Pumps JHZJ |
| 05/018 Automatic Machine for the Production of Shell Moulds | 07/081 Anode-Mechanical Spark Erosion Saw PA 6 |
| 05/019 Semi-Automatic Machine for the Production of Shell Moulds | 07/082 Small Ultrasonic Cleaner PU 02 |
| | *08/034 KOMPAREX Sample Card |

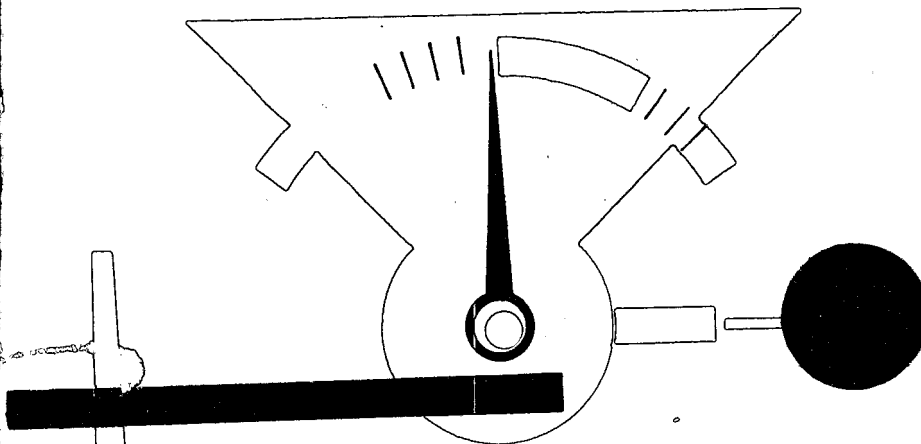
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| 08/035 Corrosion of samples, panels and instruments | 13/035 Hydraulic Prop Tightener |
| 08/036 Electrostatic Field | 13/036 Sand Blasting Guns |
| 08/037 Complete Milling Equipment | 13/037 Chisels |
| 08/038 Polyamide and Polyethylene Fluidizing Equipment | 13/038 Prop Tightener |
| 08/039 Cloth Polishing Wheels | *14/149 Test Table T 2 PR 600 V |
| 10/051 Electrodes | 14/150 Model of power dispatcher's rooms |
| 10/052 Seam Welder SP 60 | 14/151 Various Suspension Instruments |
| 10/053 Adjustable Working Table PS 2000 | *14/152 Distributor with Rotary Gauge 700 VA |
| 10/054 Cutting Attachment | 15/039 Hood Dyeing Machine |
| 10/055 Miniature Spot Welder | 16/040 Romajor-Zetaprinton |
| 10/056 Seam Welder for transformer plates | 16/041 Automatic Loom ES |
| 11/059 SP 300 Remote Control Drive Plant with engine 25110 and starter motor | 16/042 Zetakont B |
| 11/060 Automatic Diesel Generating | Woodworking Machines : |
| 11/061 Stationary Steam Engine 4SP260A | 16/101 Light Hydraulic Veneer Press |
| 11/062 Four-Cylinder Four-Stroke Air-Cooled Oil Engine T 924 | 16/104 Fibre Homogenizing Machine for the production of wood-fibre boards |
| 11/063 Six-Cylinder Four-Stroke Air-Cooled Oil Engine T 926 | 16/105 Thicknessing Lathe HPC |
| 11/064 Eight-Cylinder Four-Stroke Oil Engine T 928 | 16/106 Thicknesser HSB |
| 11/065 Eight-Cylinder Four-Stroke Oil Engine T 928 K with Turbo-charging | 16/107 Lathe FTB |
| 11/066 Twelve-Cylinder Four-Stroke Oil Engine T 932 | 16/108 Automatic Pattern Makers Shaping Machine FMA with a set of special tools |
| 11/067 Eight-Cylinder Four-Stroke Water-Cooled Railway Oil Engine K8S-310 DK with Turbocharging | 16/109 KSS Cross-Cut Saw |
| 12/029 Wire Durability Tester | 16/110 Automatic NPP Saw Grinding Machine |
| 12/030 Debye Scherer Cells for Micro-X-Ray Unit | 16/111 Automatic NEP Saw Grinding Machine |
| 12/031 Binar Impulse Reductor | 16/112 FHM Lathe with frequency changer for 17,000 spindle rev. |
| 12/032 Wire Tester | 16/113 Thicknessing Planer T 40 |
| 12/033 Equipment for Measuring the Temperature at Flow Tests | 16/114 Surface Planer T 30 |
| 13/034 Universal Cast-Iron Tubular Boiler for Central Heating VSB-IV | 17/071 Steel Sand Tank |
| | 17/072 Crushers and Sorters |
| | 17/073 Excavator DO 51 |
| | 18/049 Typified Bridge Crane 20/5 T, 16.4 m. |
| | 18/050 Electric Hoists L III 15 |
| | 18/051 Trolley |
| | 18/052 Portable Conveyor, within a radius of 6 metres |

18/054 Crab D 515/3 T	20/020 Model of city traffic with a trolley-bus car and transformer
18/055 Crab 16.31/1 T	20/022 Diesel Locomotive BN 150
18/056 Ratchet Type Jack 3.2 T	33/030 Table Gas Analyzer TZS
18/057 Ratchet Type Jack 5 T	33/031 Portable Gas Analyzer TZp
18/058 Jack Z 20/2.5 T	33/032 OKA Document Printer
18/059 Jack Z 21/7.5 T	33/033 MAGNOLA Tripods
18/060 Hydraulic Jack CHZS 50	46/014 Air Filters for Petrol Engines
18/061 Hydraulic Jack CHZS 100	46/015 Air Filters for Oil Engines
18/062 Hydraulic Jack CHZS 200	46/016 Dynamos for passenger cars and trucks
18/064 Electric Pulley Block R 1/250	46/017 Ignition switchboxes
18/065 Trailer T 258	46/018 Fuel Test Engine OKC
18/066 Trailer T 278	47/003 Racing and Special Bicycles, Type F 24
19/096 Sour Cream Processing Plant	47/004 Children's Bicycles, Type Sp 110, P 103, P 104, PE 5, PE 6
19/097 Automatic Grain Balance, 20 kg	*50/102 Single-Bottom Mounted Plough P NO 35
19/098 Air-Pressure Filter 40×40 D 10	50/103 Mounted Cultivator with fixed tines for use with Z 25 tractors
19/099 Distilling Apparatus DAE 10	50/104 Post Hole Digger VTN 55
19/100 Ham Boiler	50/105 Light Harrows SE 4
19/101 Liquid Egg Pasteurizer	50/106 Hammer Mill SK 36
19/106 Model of a Meat Processing Plant	50/107 Automatic Pest Destroying Machine
19/107 Model of an Ice Rink and Freezing Plant	50/108 Stacking Elevator S 1300
19/108 Model of an ice-factory	50/109 VERTEX Horse Drawn Side Delivery Rake and Tedder
19/109 Model of a Bakery	50/110 Hand Machines for the preparation of fodder
19/110 4 UD 260 Air Compressor	50/113 ESOX Amphibious Water Weed Launch
19/111 2 SN 200 Air Compressor	50/114 Clover Seed Sheller
19/112 2 SN 300 Air Compressor	50/115 RYMIPOL Food Mixer
19/114 High Lift Truck	50/118 MTZ 8 Liquid Manure Spreader
19/117 Fountain (set)	50/120 TRI Grain Cleaning Plant
19/118 Cristal (set)	50/121 Potato Grader TBP 30
19/120 Model of an Absorption Refrigerator	50/122 Maize Husker
19/121 Roller Track	*50/126 Scythe Grinder with universal head
19/122 Low Lift Truck	50/127 DRUKOV Farm Wagon
19/123 Automatic Dosing Set for Sweets	50/128 Farm Wagon
19/124 Suppository Making Machine	50/129 Sludge Pump
19/125 Tablet Making Machine	
19/126 Automatic money changer	
19/127 Bottle Shopping Machine	

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*50/130 Grain Blower	50/145 S 350 Clod Crusher
50/131 TORON SPECIAL Hay Blower	50/146 JARO Harrows
50/136 Horse Drawn Hoe	50/148 Grape Presses
50/137 Hand Hoe	*50/149 Sugar Beet Hoe PN 12
50/138 Mobile Sprayer	*50/150 Flax Tedder OLZ
50/139 Six-Row Beet Hoe, Type BRANDÝS	*50/151 Beet Seed Drill 6 SVKŘ 450
50/140 Hop Garden Plough	50/152 Horse Drawn Tedder
50/141 Vineyard Plough ZP 130	80/001 Clothes Cleaning Machine CH30
50/142 Set of Bottoms and Plough Shares	84/001 Polytex, a plastic used in the engineering industry .
50/143 DEZA, DRUPOL, SLOKOV, HLUBINA Hand Sprayers	84/002 Industrial Chains

The novelties are marked with an asterisk *.



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