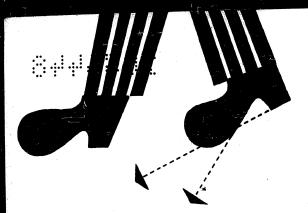
25X1

ARMY review completed.

Next 4 Page(s) In Document Denied

EXHIBITION OF CZECHOSLOVAK ENGINEERING

BRNO SEPTEMBER 8th . 30th 1956



Your first visit at the Exhibition

should be to the reception rooms of the Czechoslovak Foreign Trade Corporations, with which you have bussiness relations, viz.

TECHNOEXPORT STROJEXPORT KOVO MOTOKOV

The representatives of these corporations will give you information in all the world languages. They will accompany you through the Exhibition and will advise you as regards all your wishes, even personal ones.

They will do all to make your visit to the Exhibition as profitable as possible.

CATALOGUE

of The Second Exhibition of Czechoslovak Engineering Brno - September 8th-30th 1956



CATALOGUE OF THE SECOND EXHIBITION OF CZECHOSLOVAK ENGINEERING, BRNO-SEPTEMBER 8th - 30 th 1956

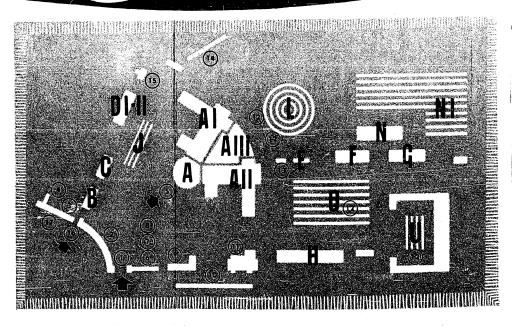
Per Entrance shall of the main exhibition building - AA Complete factory equipments - A/II Machine tools, motors, ceramics - A/III Products of automobile industry and general consumer goods - B/ Measuring and laboratory

equipments - A/II Machine tools, motors, ceramics - A/III Products of automobile industry and general consumer goods - B/ Measuring and laboratory instruments - C/ Medical apparatus, photo and motion picture cameras and equipment, eye optics, motion picture theatre - D/I Textile, shoemaking and printing machines - D/II Accessories to textile machines, drawing instruments - E/ Automatic telephone exchange, telecommunication equipment - F/ Woodworking machines, Diesel engines, fittings, food-processing machines, flour-mill equipment - G/ Compressors, accumulators, hand-trucks, petrol pumps, equipment for brickyards - H/ Telecommunication equipment - I/ Hoisting tower, mining machines and equipment - L/ Means of transportaeroplanes - N/ Agricultural machines - N/I Grounds for demonstrations - O/ Rail vehicles - U/ Pump





- 2. Exhibition management
- 3. Business premises of Foreign Trade Corporations
- 4. Reception room for foreigners
- 5. Entrance to main exhibition building
- 6. Čedok
- 7. Bank
- 8. Children's nursery
- 9. Foreign visitor's restaurant
- 10. Food stalls
- 11. Restaurant
- 12. Information bureau
- 13. Autoservice
- 14. Refreshment (buffets)
- 15. Wine restaurant
- 16. Motorcar entrance for foreign visitors
- 17. Garages



SINCE THE TIME OF GOING TO PRESS NEW ITEMS HAVE BEEN ADDED TO THOSE ORIGINALLY INCLUDED IN THE CATALOGUE

(The novelties of the supplement are marked)

- SUR 260 Universal Centre Lathe
- 29 AD6 Automatic Lathe
- 30 ANK 155 Five Spindle Automatic Lathe
- 105 BRH 63 Grinder
- 106 2 U Universal Grinder
- 107 OB 16 Gear Grinding Machine
- 108 N1 Tool Grinder
- Double-Spindle Metal Working Compound Unit, Nr. 77020 142
- (for machining heads of sewing machines)
 Four-Spindle Metal Working Compound Unit, Nr. 77024 * 143 (for machining parts of Pionýr sewing machines) Drilling, Thread Chasing and Feeding Units Cylinder Head Production Line
- 185
- Assembly Line of Injection Pumps 186 206
- Gold Treatment LK 400 Extrusion Press
- 210 Semi-Automatic Machine for the manufacture of Permanent Moulds
- Core Blowing Machine
- Permanent Mould Gluing Press Permanent Mould Sand Mixer **212**
- 213
- 214
- Specimens of Permanent Moulds and Castings Laboratory Instruments for Testing of Moulding Substances 215
 - Hydrocyclone Sand Mixing Unit Specimens of mixed sands 216 217
- 219
- 296
- 337
- Saw Segment Casting Equipment XOT 50 Pipe Bending Machine BP 60 Spot Welder with Electronics BP 60 Portable Spot Welder SUM 1000 Automatic Welder 338
- 339
- 340 Oxy-Acetylene Cutting Machine
- 358
- Multi-Spot Welder Automatic Welding Machine for welding on vertical walls 359
- 360 VUS 1000 KVA Welding Press
- 361
- New Electrodes for Tool Steel Welding New Electrodes for Cast-iron Welding with Bimetal 362
- 363 Portable High Pressure Welding Machine
- Plastic Welding Machine
- 365 Argon Arc Mobile Welding Set
- Electrolytic Polisher 366
- Various Welding Equipment 367
- Utrasonic Tester 368
- Spot Welder with Condenser 369
- Spot weader with Condenser
 Thermite Cartridges for Aluminium Welding
 CV 201 Generator and U 201 Rectifier
 RS 32 Cutting Machine
 Rail Cutting Machine
 1 P 12 BV Electric Motor
 1 K 01 76 Floatric Motor 370
- * 381
- 383
- 384
- 426
- 1 K 91 Z6 Electric Motor
- HRP 71S 6 Electric Motor

435

437

439

466

467

468

469

473

554

557

558

559

563

564

565

566

567 568

569

585

586

588

589

632

Catrigde

Various Relays

Limit Switches

22 kV Choke Coils

PDN 25N Blower

PD 35 N Blower Rotor Unit Gearbox

Three-pole Air Break Contactors

Three-pole Air Break Contactors

Tappet Switch 6-35 kV Voltage Testing Rods

SUt 3340/75 rp Selenium Rectifier

6-100 kV Short-Circuit Sets

60V-45A Selenium Rectifier 120V-80A Mercury Rectifier

Three-pole Thermal Relay

CF 300 P Drilling Set B 120 M Drilling Set C 1200 Drilling Set Drum Type Feeder, 1500 in dia Low-Speed Cylinders, 700 in dia 756 757 819 821 Metal Loader Metal Loader High-Speed Cylinders 700 in dia Vacuum Unit Press 822 823 Fully Automatic Cutter Cement Conveyor with over-pressure discharge BD 1 m. Double-Axle Trailer PRO 1 Platform Cart, capacity 1.5 t. Trailer, capacity 1 t. 890 909 Trailer, capacity 1 t.
Trailer, capacity 2 t.
Railway Wagon Traverser
Shunting Winch
Battery Truck for transport and lifting bar stock
TRA Mechanical Shovel
TEX Suspended Conveyor
Portable Rubber Conveyor, 8 metres (3 pces.)
Mobile Rubber Conveyor, 12 metres
5 to 20 ton Crabs 925 935 952 966 Mobile Rubber Conveyor, 12 metres
5 to 20 ton Crabs
Derrick Crane, capacity 10 tons
Electric Bridge Crane, 3 tons x 7 metres
Overhead Travelling Crane, 50 tons x 22 metres
AJ 3022 Hydraulic Crane
Model of SJ 16 Crane
Model of Wolf Crane
E 25 Excavator
Mostra Purple 6 of motors 970 976 978 979 980 983 984 Mortar Pump, 6 cu. metres Motor Driven Cart for the transport of concrete 985 986 Off-Road Trailer, 5 cu. metres 987 R 110 Scarifier 1900 Soil Cutter Concrete Mixer 988 989 990 NV 15 Road Roller Concrete Pump, 6 cu. metres * 1015 Excavator
Electric Mortar Mixer, 250 litres
PB 200 Pneumatic Ram * 1016 *1017 * 1019 Rubbert RT 1 Vitreous Block Machine, hand operated MIKROMETA X-Ray Unit I H 400 Horizontal Electro-magnet Apparatus * 1.020 1110 * 1190 * 1191 Sand Pump Automatic Densimeter Humprey's Spiral Azimuthal Inclinometer * 1192 * 1193

TECHNOEXPORT

ZVIL 6 6-cylinder Compressor

Technology

1195

1292 4.2 MW Runner 1328 Laboratory Filter 1343 ČKD 140 DUPLEX Alkaline Pump

Minicatex ATR 1 Portable Aerodynamic Thermometer PAR 1 Portable Automatic Gas Analyser Water Hardness Tester Water Impurity Indicator 1345 1347 Water Induction Smelting Vacuum Furnace, capacity 50 kg, 100 kW HOA7/5.30 kW Gas Cementing Furnace
NOK 150/10/6.5 Trimming Shears with circular knives
Coal Sorting and Washing Switchboard Unit
Switchboard Unit * 1365 1383 1387 1398

MOTOKOV

* 1427 *1500

Skoda 1200 (1500)
S706RO Refrigerator Truck
S706RO Motorbus de Luxe
ZETOR SUPER Wheel Tractor with air-pressure equipment
ZETOR 25A with hydraulic power lift and NUN 100
ZETOR 25K with cutter bar
Zetor Tractor Wagen

1591 1592

1714

1862

ZETOR 25K With cutter par 7 ton Tractor Wagon UTS Universal Joiner's Machine Thermostatic Valves and Thermostat Motor and Railway Truck Cooling Unit 700 Compressor Unit * 1863

1864

1865

MS 630 Freezing Counter HC 125/60 Laboratory Deep-Freezing Counter Czechoslovak

Ceramics

1975 Electroporcelain 1976 Laboratory Porcelain

GLASSEXPORT

Water Distilling Apparatus, 660 mm. in dia., 2 pces.. Large Evaporator

1982

Large Evaporator
Reaction Kettles (4)
SIAL and SIMAX Laboratory Glass (95 pces.) 1984

Kipp's Apparatus
Flour Mill Glass Piping (filled with coloured liquid) 1986

Glass-Blocks

KOVO

Semi-automatic Screen Printing Machine NISA-MIRA Electric Calculating Machine ES II/175 Loom * 2320 2334 2550

H 105 B Jet Loom, wide

NOTEZ S. V. P. LE CHANGEMENT

intervenu au cours de l'impression du catalogue

OMNIPOL S. A.

EST CHARGÉE DES EXPORTATIONS

D'AVIONS DE SPORT ET DE TRANSPORT. D'ARMES DE SPORT ET DE CHASSE AINSI QUE DE MUNITIONS

rentrant auparavant dans le cadre d'activité des sociétés

KOVO ET MOTOKOV

Nous exposons tous ces produits à la IIe Exposition des Machines Tchécoslovaques de Brno



VERMERKEN SIE EINE ÄNDERUNG

die während der Drucklegung des Katalogs eingetreten ist

OMNIPOL A. G. WASHINGTONOVA 11, PRAHA 3

ÜBERNAHM **VON DER FIRMEN KOVO UND MOTOKOV DIE AUSFUHR**

VON SPORT-UND VERKEHRSFLUGZEUGEN, SPORT-UND JAGDWAFFEN SOWIE MUNITION

Sie werden ausgestellt auf der II. Tschechoslowakischen Maschinenbauausstellung in Brno

Besuchen Sie unst

ПОПРАВКА

Уже во время издания настоящего каталога произошло следующее изменение

ЕКСПОРТ

спортивных и транспортных самолетов, а также спортивного и охотничьего оружия и боеприпасов, которые ранее входили в номенклатуру сбыта внешнеторговых объединений КОВО и МОТОКОВ,

был передан

внешнеторговому обществу

ОМНИПОЛ

Прага 3, Вашингтонова 11

Посетите экспозицию этой экспортной организации на II. выставке чехословацкого машиностроения в Брно!



MAKE A NOTE OF THE CHANGE

which occurred while the catalogue was in progress of printing

OMNIPOL LTD. WASHINGTONOVA 11, PRAHA 3

WASHINGTONOVA 11, PRAHA 3

HAS TAKEN OVER

FROM THE FIRMS KOVO AND MOTOKOV

THE EXPORT OF

SPORTS AND TRANSPORT AIRPLANES AS WELL

AS SPORTS AND HUNTING ARMS
AND AMMUNITION

They are exhibited at the II. Czechoslovak Engineering Exhibition in Brno

Visit usl

CHAMBER OF COMMERCE OF CZECHOSLOVAKIA PRAHA

CATALOGUE

of The Second Exhibition of Czechoslovak Engineering Brno - September 8th-30th 1956

Publishers of Technical Literature
Praha



STROJEXPORT

TECHNOEXPORT

MOTOKOV

PragoExport

Cecamics

KOVO

This Catalogue is an informative survey, without obligation, of the exhibited articles.

Pražské tiskárny, n. p., závod 01

It is a great honour to welcome on Czechoslovak soil, on behalf of the Czechoslovak Chamber of Commerce, our dear foreign guests and business friends from many countries of the world who have come here to visit the Second Czechoslovak Engineering Exhibition at Brno and have thus the opportunity to become acquainted with the latest progress of the Czechoslovak engineering industry.

The Second Czechoslovak Engineering Exhibition continues in the tradition of last year's exhibition. While the first exhibition acquainted our foreign guests with the whole extent and standard of the engineering industry in Czechoslovakia, the chief aim of this year's exhibition is to demonstrate the continuous growth of the technical standard of this branch of Czechoslovak industry and to show the progress made in the introduction of new techniques and technology in our production. The kernel of the exhibition is formed by more than 300 novelties in engineering equipment, most of which have not yet been displayed at any Czechoslovak exposition abroad. Apart from this, the best Czechoslovak products from the branch of investment goods, individually and mass produced products, of the developed Czechoslovak engineering industry as well

as products of consumer goods character are concentrated at the exhibition,

I am convinced that each of our visitors will encounter products which will be of interest to him. Our country, in whose export programme the products of the engineering industry occupy an outstanding position, already supplies more than 80 near and distant countries. I believe that also our foreign guests and business friends will see for themselves the quality of the Czechoslovak engineering products and that they will duly consider our products when choosing a potential supplier.

I sincerely hope that our dear guests from abroad will spend their sojourn in our country as pleasantly as possible. I also hope that their visit to the Second Czechoslovak Engineering Exhibition at Brno will rank among the most pleasant occurrences of their working days and that we shall have the pleasure of welcoming them, in the same way as we do this year, on the occasion of our future exhibitions.

CHAMBER OF COMMERCE OF CZECHOSLOVAKIA

Ing. F. Adámek

LIST OF NOVELTIES ON DISPLAY

SN 45 Centre Lathe	-
SN 40 Centre Lathe	8
SRX 1000/400 High-Speed Centre Lathe	ì
SR 2000/600 Lathe	11
SP 31 Semi-Automatic Lathe	12
SPE 50 Semi-Automatic Lathe	13
R 25 Capstan Lathe	18
RP 50 Semi-Automatic Turret Lathe	19
AN 35 Five Spindle Automatic Lathe	23
ANK 135 Automatic Lathe for quantity production of parts from	
bar stock	24
FRV 80 Vertical Miller	49
FV 1000 Vertical Miller	50
FRU 63 Universal Miller	52
FIA 40 Multi-Spindle Milling Machine	53
FEP 2 Milling Machine with draw-out arm	54
FEK 80 Universal Cam Milling Machine	55
OKU 35 A Dividing Gear Lathe	58
OP 6 A Gear Hobbing Machine	59
BUA 20 Universal Grinding Machine	81
BUA 31 Universal Grinding Machine	82
BDA 63 Automatic Hole Grinder	84
3PH 20 A Horizontal Surface Grinder	85
BB 10 Centerless Grinding Machine	88
BEK 80 Universal Cam Grinding Machine	93
BNH 70 End Mill Cutter Grinder	95
BNG 12 Gleason End Mill Cutter Grinder	96
Electroabrasive Grinder on SK Lathe	98
Cam Grinding Machine	101
DB1-1 and OB2-1 Oscillating Grinders /RM 50 Portable Drill	102
	128
f 63 Horizontal Boring Machine WH 80 Horizontal Boring Machine	131
WH 100 Horizontal Boring Machine	132
WD 160 Horizontal Boring Machine WD 160 Horizontal Floor Plate Boring Machine	133
WD 250 Horizontal Floor Plate Boring Machine	134
WKV 100 Jig Drilling Machine	135
Six-Spindle Building Block Automatic	136
Six-Spindle Fine Boring Machine	138
Wo-Spindle Fine Boring Machine	139
OS 30 Shaving Machine	140
TK 25 Gear Shaper	162
I 38 A Single Housing Planing Machine	163 164
HOT 100 Slotting Machine	166
ide Milling Cutter	183
E 100 Gap-Frame Eccentric Press	191
O 200 B Press Brake	195

LKO 315 Shearing Crank Press LKM 1600 Forging Crank Press	1 96 204		UZA-4 Self-Priming Pumping Set Kerbside Pump with flow meter (computer)	1037 1073
KRA 8 Automatic Swaging Machine	231		DK-4-R Compressor	1093
KR 16 Swaging Machine	232		Selenium Rectifier	1131
AU 1 Universal Automatic Spring Manufacturing Machine	241		Mercury Rectifier for charging mine lamps	1132
AU 3 Universal Automatic Coil Spring Manufacturing Machine	242		Torsion Oscillation Recorder Ultrasonic Defectoscope	1141
NUD IV Combined Power Shears with Punching Press	283		1000 A, 9 V and 500 A, 9 V Galvanizing Sets	1142
XOM 300/3,5 Bending Machine HTO 2 Hydraulic Pipe Bending Machine	292 295		M 011 Electric Spark Generator	1151
KB 400 Pneumatic Hammer	311		and the spark deneration	1161
KAH 70 Spring Hammer	312			
IJV 1 Broken Tool Extractor	321			
IJV 2 Broken Tool Extractor	322	_		
VJ-03 Electric Spark Micro-Perforator	323		TECHNOEXPORT	
VJ 3 Electric Spark Perforator, small type	324	_		
VJ 15 Electric Spark Perfortor, medium type	325			
VJK 1 Electric Spark Erosion Die Cutter ZJ 1 Electric Spark Thread Cutter	326		Air Blast Circuit Breaker	1227
IJV 3 Electric Spark Inscribing Needle	327		Trash Rack Cleaner	1262
VU 3 Small Ultrasonic Perforator	328		Airing Nozzle	1325
VU 15 Medium Size Ultrasonic Perforator	$\frac{329}{330}$		Wound High Pressure Vessel	1326
PA 6 Anode-Mechanical Electric Spark Erosion Saw	331		Hydrana Rotary Kiln Drive	1351
PA 30 Anode-Mechanical Electric Spark Erosion Saw for small	301		Unit Type Switchboard	1361
sections	332		Desk Type Switchboard Dust Proof Switchboard	1362
PA 70 Anode-Mechanical Electric Spark Erosion Saw for stocked			Bust 11001 Switchboard	1363
sections	333			
PA 150 Anode-Mechanical Electric Spark Erosion Saw for medium sections				
VÚS 250-3 Welding Press	334	_		
VÚS 60/120 Suspended Seam Welder	346		MOTOKOV	
Pipe Cutting Machine	347	-		
VUSA Universal Automatic Welding Composition Weldow	348			
VUS B 1.5 Miniature Spot Welder	349 350		Tatra 603 Motor Car	1408
VUS KV Adjustable Working Table	351		ČZ 175 Scooter	1417
Type TAU 40, TAU 80, TP 60, SP 60, SPK 1000, SPK 600 Automotic	331		Škoda 706 Road Sprayer	1464
weiding Sels	353	1	Tatra Dumpcar 5 cu. metre Tipper	1485
Automatic Welding Set with Amplidyne Arc Regulation T 010 Argon Gas Welding Set	354		Tyre without tube	1540
Propane and Butane Brazing Set	355		MLOV Fishing Power Plant	1601
Pressure Flame Welder	356		UNIKUM 16-SLN-150 Seed Drill	1602
Three-Phase Synchronous Mutor	357		5 PZ 35 Five-Bottom Trailing Plough	1605
Hydraulic Press used for gluing of laminated moulded	373		17 SVRP 105 Drill for Animal Traction Electric Scythe Sharpener BEPKU 125	1606
Type LLO 4 D. F. Thermoniastic Foil Woldon	377		VSDP 25 Hay Blower with Pulping and Conveying System	1607
rianie Hardening Machine	378 37 9		Intake Eruption Dung Cart	1611
H. F. Through Drying Plant	380		ZM 330 Harvester Thresher	1615 16 56
Rotor Squirrel Cage Measuring Set	471		PDP 120 Half-Mounted Disc Plough	1673
SZ R 140 Engine with waste heat utilization equipment	481		2 PDN 35 Two Disc Mounted Plough	1679
TOA 30-40/11 Alga Canacity Rise Contaides	521		3 PZ 35-3 Three Bottom Trailing Plough	1687
FTCB 35-60/11 High Capacity Fuse Cartridge Single-Pole Outdoor Disconnecting Switch	536		KHN 280 Mounted Cultivator for Depth Soil Loosening	1689
CRP Three-Pole Air Blast Circuit Breaker with Resistance	537		KHZ 200 Trailing Cultivator for Depth Soil Loosening	1691
		,	3 PDN 35 Three Disc Mounted Plough S PN 35 D Mounted Three Bottom Plough	1693
Filament Set for Short Time Transmitters	54 0		SŘZ 42 Sillage Combine	1694
Julillutator Tynamometer	629		Ammonia Spreader	1701
System SLATINA Automatic Low-Pressure Boilers	631		MBK 180 P Tractor Driven Binder	1704
VD 500 Illillersion Vibrator	743		ŽVZ 210 Tractor Driven Binder	1706
MM 125 Mortar Mixer	993 1000		2 SKŘ Beet Combine	1707 1708
OS 41 Construction Steel Bending Machine	1005		DP-2,5 P Two Wheel Trailer	1708
5 600/200 Conveyor, 6 sections	1012		Polaroscope	2128
	1013		LS 110 Drying Box	2129
n				
v			•	

Laboratory Gasmeter	2144	Cala Tandana Duni
Electrical Fume-Gas Analyser	2158	Sole Laying Press
pH-Meter Multoscope III	2173	Sole Screwing Machine
pH-Meter Multoscope IV	2174	Shaving Machine
	2175	Lasted Forepart Moulding Machine
pH-Meter Multobat	2176	Double Cylinder Knitting Machine, Type DPLo
Electronic pH Recorder		Single Cylinder Knitting Machine, Type JDa
Bridge Type Conductoscope	2177	Double Cylinder Automatic Knitter, Type DREc
Rotating Pump	2197	Jet Loom, Type 1058, wide
Autoclave	2198	Deck Radio Station
LP 55 Polarograph	2199	Radio Components
LP 54 Polarograph	2200	
Tar Separator	2201	Subminiature Transistor Receiver
Device for Determining the Octane Number	2202	Coaxial Measuring Set
Device for Determining the Cethane Number	2221	Electronic Microscope
T 124 Sewing Machine	2225	Desk Electronic Microscope
	2226	Electron Tubes for Transmitter Rectifiers
T 224 Sewing Machine		Miniature "Noval" Types
Klinix III X-Ray Unit	2272	Plane Transistors
Oximeter	2279	Thermistons
Electrophonendoscope	2280	Triodes
Electric Metabolimeter	2283	Video Electron Tubes
Electrocardiograph, battery type	2288	Silical Diodes
Electrocardiograph	2289	
Chirax-Unit .	2293	Various Bulbs and Fluorescent Tubes
Consul Standard Typewriter, new model	2324	Receiving Tubes
Consul Portable Typewriter, new model	2326	Miniature indirect-heated Electron Tubes
Nisa Electric Calculating Machine	2329	Special Electron Tubes
		Special Fluorescent Tubes
Zetalis High-speed Letterpress Flexaret IV	2333	High-speed Photometer
	2387	Registered Flowmeter
Flexaret IVa	2388	Pyroferal Refractory Alloy
Mikroma II	2392	Putty Grinding Apparatus
Neo 8 Projector	2406	Surface Roughness Measuring Instrument
Revolver-type Holders	2411	Electrostatic Colour Laying
Locking Release	2413	Plastic Coating Device
Trichinoscope	2418	Filtering Apparatus
Reproscope	2422	Hydraulic Measuring Devices
Diaprojector	2423	
Diaprojector according to Doctor Hrdina	2424	Millisecond Mine Dynamo
Polarizing Microscope	2432	Magnetic Amplifiers
Travelling Microscope	2435	Revolution Regulator
T 1c Angle-Measuring Instrument	2453	Radioisotope Paper Thickness Measuring Apparatus
Comparing Microscope	2455	Railway Communication Equipment Source
Mineralogical Microscope	2456	Magnetophone Induction Motor
Pocket Surveyor's Level	2457	d. c. Tachodynamo
Kolposcope		Diehle's Motor 1W
Gauges for current checking on grinding machines and electric	2458	tg Loss Angle Measuring Instrument
contact indicators	0510	Remote Measuring Instrument
Twin Post Gauge	2510	Industrial 2-6 Ray Oscillograph
Surface Roughness Measuring Instrument	2511	Twisted Drills
Spirit Levels	2512	Drilling Rods
	2515	SK Knives with Mechanical Clamping Bits
Small Thread Taps under 1 mm	2517	Knives with Corundum Plates
Twisted Drills	2522	Radial and Axial Milling Heads
Sintered Carbide Knives with Mechanical Clamping Bits	2523	
Knives with Corundum Plates	2524	Cast Milling Cutters
Knife Heads for Globoid Worms	2526	Saws with Cast Segments
Pneumatic Muscle	2527	Knife Heads for Globoid Worms
Saws with Cast Segments	2529	Pneumatic Muscle
Brinell Hardness Tester	2532	Fixtures
Single-stroke Toe Lasting Machine	2572	Lathe Tool Holders
Veldtschoen Toe Lasting Machine	2573	Gauges for Current Checking on Grinding Machines
Pulling Over Machine	2576	Twin Post Gauge
	4010	Surface Roughness Measuring Instrument
19		

Z 226 Trainer Démant Glider LD 40 all-metal aeroplane AC 2 L 13 FMA Automatic Pattern Makers Shaping Machine KSS Circular Segment Jointing Saw VP 52 Alba Cygnus Electric Washer Electric Coffee Grinder Whipper Attachment Mixer Attachment Electric Shaver Twin Gas Cooker Gas Hot Water Reservoir Bath Heater Automatic Electric Range Twin Electric Cooker Model 203 Electric Iron with Thermostatic Temperature Control Electric Iron with Thermostat and Moistener Vertical Electric Boiler Case-Type Cloth Drier for Sundry Household Clothes Hair Drier of New Advantageous Line Well Appointed Kitchen with Electric Bathroom 18 17 17 17 17 17 17 17 17 17 17 17 17 17	FPT 2.5 Dung Cart	1112
Démant Glider LD 40 all-metal aeroplane AC 2 L 13 FMA Automatic Pattern Makers Shaping Machine KSS Circular Segment Jointing Saw VP 52 Alba Cygnus Electric Washer Electric Coffee Grinder Whipper Attachment Mixer Attachment Electric Shaver Twin Gas Cooker Gas Hot Water Reservoir Bath Heater Automatic Electric Range Twin Electric Cooker Model 203 Electric Iron with Thermostatic Temperature Control Electric Iron with Thermostat and Moistener Vertical Electric Boiler Case-Type Cloth Drier for Sundry Household Clothes Hair Drier of New Advantageous Line Well Appointed Kitchen with Electric Bathroom 18 17 17 17 17 17 17 17 17 17 17 17 17 17		1745
LD 40 all-metal aeroplane AC 2 L 13 FMA Automatic Pattern Makers Shaping Machine FMSS Circular Segment Jointing Saw VP 52 Alba Cygnus Electric Washer Electric Coffee Grinder Whipper Attachment Mixer Attachment Electric Shaver Twin Gas Cooker Gas Hot Water Reservoir Bath Heater Bath Heater Twin Electric Cooker Model 203 Electric Iron with Thermostatic Temperature Control Electric Iron with Thermostat and Moistener Vertical Electric Boiler Case-Type Cloth Drier for Sundry Household Clothes Hair Drier of New Advantageous Line Well Appointed Kitchen with Electric Bathroom 18 17 17 17 17 17 17 17 17 17 17 17 17 17		1746
AC 2 L 13 FMA Automatic Pattern Makers Shaping Machine KSS Circular Segment Jointing Saw VP 52 Alba Cygnus Electric Washer Electric Coffee Grinder Whipper Attachment Mixer Attachment Electric Shaver Twin Gas Cooker Gas Hot Water Reservoir Bath Heater Automatic Electric Range Twin Electric Cooker Model 203 Electric Iron with Thermostatic Temperature Control Electric Iron with Thermostat and Moistener Vertical Electric Boiler Case-Type Cloth Drier for Sundry Household Clothes Hair Drier of New Advantageous Line Well Appointed Kitchen with Electric Bathroom Well Appointed Kitchen with Gas Heated Bathroom		1747
L 13 FMA Automatic Pattern Makers Shaping Machine KSS Circular Segment Jointing Saw VP 52 Alba Cygnus Electric Washer Electric Coffee Grinder Minpper Attachment Mixer Attachment Electric Shaver Twin Gas Cooker Gas Hot Water Reservoir Bath Heater Automatic Electric Range Twin Electric Cooker Model 203 Electric Iron with Thermostatic Temperature Control Electric Fooler Case-Type Cloth Drier for Sundry Household Clothes Hair Drier of New Advantageous Line Well Appointed Kitchen with Electric Bathroom Well Appointed Kitchen with Gas Heated Bathroom		
L 13 FMA Automatic Pattern Makers Shaping Machine FMSS Circular Segment Jointing Saw VP 52 Alba Cygnus Electric Washer Electric Coffee Grinder Whipper Attachment Mixer Attachment Electric Shaver Twin Gas Cooker Gas Hot Water Reservoir Bath Heater Automatic Electric Range Twin Electric Cooker Model 203 Electric Iron with Thermostatic Temperature Control Electrical Electric Boiler Case-Type Cloth Drier for Sundry Household Clothes Hair Drier of New Advantageous Line Well Appointed Kitchen with Electric Bathroom Electric Boliner Well Appointed Kitchen with Gas Heated Bathroom		1750
FMA Automatic Pattern Makers Shaping Machine KSS Circular Segment Jointing Saw VP 52 Alba Cygnus Electric Washer Electric Coffee Grinder Mixer Attachment Mixer Attachment Electric Shaver Twin Gas Cooker Gas Hot Water Reservoir Bath Heater Automatic Electric Range Twin Electric Cooker Model 203 Electric Iron with Thermostatic Temperature Control Electric Iron with Thermostat and Moistener Vertical Electric Boiler Case-Type Cloth Drier for Sundry Household Clothes Hair Drier of New Advantageous Line Well Appointed Kitchen with Electric Bathroom Well Appointed Kitchen with Gas Heated Bathroom	L 13	1771
KSS Circular Segment Johning Saw VP 52 Alba Cygnus Electric Washer Electric Coffee Grinder Whipper Attachment Mixer Attachment Electric Shaver Twin Gas Cooker Gas Hot Water Reservoir Bath Heater Automatic Electric Range Twin Electric Cooker Model 203 Electric Iron with Thermostatic Temperature Control Electric Iron with Thermostat and Moistener Vertical Electric Boiler Case-Type Cloth Drier for Sundry Household Clothes Hair Drier of New Advantageous Line Well Appointed Kitchen with Electric Bathroom Well Appointed Kitchen with Gas Heated Bathroom		1772
VP 52 Alba Cygnus Electric Washer Electric Coffee Grinder Whipper Attachment Mixer Attachment Electric Shaver Twin Gas Cooker Gas Hot Water Reservoir Bath Heater Automatic Electric Range Twin Electric Cooker Model 203 Electric Iron with Thermostatic Temperature Control Electric Iron with Thermostat and Moistener Vertical Electric Boiler Case-Type Cloth Drier for Sundry Household Clothes Hair Drier of New Advantageous Line Well Appointed Kitchen with Electric Bathroom Electric Bathroom		1800
Electric Corles Grinder Whipper Attachment Mixer Attachment Electric Shaver Twin Gas Cooker Gas Hot Water Reservoir Bath Heater Automatic Electric Range Twin Electric Cooker Model 203 Electric Iron with Thermostatic Temperature Control Electric Iron with Thermostatic Temperature Control Electric Iron with Thermostat and Moistener Vertical Electric Boiler Case-Type Cloth Drier for Sundry Household Clothes Hair Drier of New Advantageous Line Well Appointed Kitchen with Electric Bathroom Well Appointed Kitchen with Gas Heated Bathroom	VP 52 Alba Cygnus Electric Washer	1806
Winpper Attachment Mixer Attachment Electric Shaver Twin Gas Cooker Gas Hot Water Reservoir Bath Heater Automatic Electric Range Twin Electric Cooker Model 203 Electric Iron with Thermostatic Temperature Control Electric Iron with Thermostatic Temperature Control Electric Iron with Thermostatic Temperature Control Electric Iron with Thermostat and Moistener Vertical Electric Boiler Case-Type Cloth Drier for Sundry Household Clothes Hair Drier of New Advantageous Line Well Appointed Kitchen with Electric Bathroom Well Appointed Kitchen with Gas Heated Bathroom	Electric Coffee Grinder	
Mixer Attachment Electric Shaver Twin Gas Cooker Gas Hot Water Reservoir Bath Heater Automatic Electric Range Twin Electric Cooker Model 203 Electric Iron with Thermostatic Temperature Control Electric Iron with Thermostatic Temperature Control Electric Iron with Thermostat and Moistener Vertical Electric Boiler Case-Type Cloth Drier for Sundry Household Clothes Hair Drier of New Advantageous Line Well Appointed Kitchen with Electric Bathroom Well Appointed Kitchen with Gas Heated Bathroom	Whipper Attachment	1808
Electric Shaver Twin Gas Cooker Gas Hot Water Reservoir Bath Heater Bath Heater Twin Electric Cooker Model 203 Electric Iron with Thermostatic Temperature Control Electric Iron with Thermostatic Temperature Control Electric Iron with Thermostat and Moistener Vertical Electric Boiler Case-Type Cloth Drier for Sundry Household Clothes Hair Drier of New Advantageous Line Well Appointed Kitchen with Electric Bathroom Well Appointed Kitchen in Gas Heated Bathroom		1807
Twin Gas Cooker Gas Hot Water Reservoir Bath Heater Automatic Electric Range Twin Electric Cooker Model 203 Electric Iron with Thermostatic Temperature Control Electric Iron with Thermostat and Moistener Vertical Electric Boiler Case-Type Cloth Drier for Sundry Household Clothes Hair Drier of New Advantageous Line Well Appointed Kitchen with Electric Bathroom 18 Well Appointed Kitchen with Gas Heated Bathroom 18 Well Appointed Kitchen with Gas Heated Bathroom 18	Electric Shaver	1810
Gas Hot Water Reservoir Bath Heater Automatic Electric Range Twin Electric Cooker Model 203 Electric Iron with Thermostatic Temperature Control Electric Iron with Thermostat and Moistener Vertical Electric Boiler Case-Type Cloth Drier for Sundry Household Clothes Hair Drier of New Advantageous Line Well Appointed Kitchen with Electric Bathroom 18 Well Appointed Kitchen with Gas Heated Bathroom 19 10 11 12 13 14 15 16 17 17 18 18 18 18 18 18 18 18		18 4 9
Bath Heater Automatic Electric Range Twin Electric Cooker Model 203 Electric Iron with Thermostatic Temperature Control Electric Iron with Thermostat and Moistener Vertical Electric Boiler Case-Type Cloth Drier for Sundry Household Clothes Hair Drier of New Advantageous Line Well Appointed Kitchen with Electric Bathroom 18 Well Appointed Kitchen with Gas Heated Bathroom 19 10 11 12 13 14 15 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18		1850
Automatic Electric Range Twin Electric Cooker Model 203 Electric Iron with Thermostatic Temperature Control Electric Iron with Thermostat and Moistener Vertical Electric Boiler Case-Type Cloth Drier for Sundry Household Clothes Hair Drier of New Advantageous Line Well Appointed Kitchen with Electric Bathroom Well Appointed Kitchen with Gas Heated Bathroom		1851
Twin Electric Cooker Model 203 Electric Iron with Thermostatic Temperature Control Electric Iron with Thermostat and Moistener Vertical Electric Boiler Case-Type Cloth Drier for Sundry Household Clothes Hair Drier of New Advantageous Line Well Appointed Kitchen with Electric Bathroom 18 Well Appointed Kitchen with Gas Heated Bathroom 18		1852
Model 203 Electric Iron with Thermostatic Temperature Control Electric Iron with Thermostat and Moistener Vertical Electric Boiler Case-Type Cloth Drier for Sundry Household Clothes Hair Drier of New Advantageous Line Well Appointed Kitchen with Electric Bathroom 18 Well Appointed Kitchen with Gas Heated Bathroom 19 Well Appointed Kitchen with Gas Heated Bathroom 19 Well Appointed Kitchen with Gas Heated Bathroom 19 Method State Control State Con		1853
Electric Iron with Thermostat and Moistener 18 Vertical Electric Boiler 18 Case-Type Cloth Drier for Sundry Household Clothes 18 Hair Drier of New Advantageous Line Well Appointed Kitchen with Electric Bathroom 18 Well Appointed Kitchen with Gas Heated Bathroom 18	Model 202 Floatric Iron with Thermostatic Temperature Control	1854
Vertical Electric Boiler Case-Type Cloth Drier for Sundry Household Clothes Hair Drier of New Advantageous Line Well Appointed Kitchen with Electric Bathroom 18 Well Appointed Kitchen with Gas Heated Bathroom 18		1855
Tase-Type Cloth Drier for Sundry Household Clothes Hair Drier of New Advantageous Line Well Appointed Kitchen with Electric Bathroom 18 Well Appointed Kitchen with Gas Heated Bathroom 18		1856
Well Appointed Kitchen with Gas Heated Bathroom 18 Well Appointed Kitchen with Gas Heated Bathroom		1857
Well Appointed Kitchen with Electric Bathroom Well Appointed Kitchen with Gas Heated Bathroom 18		1858
Well Appointed Kitchen with Gas Heated Bathroom	Hair Drier of New Advantageous Line	
Well Appointed Ritchell with Gas Reated Datification	Well Appointed Kitchen with Electric Bathroom	1859
Well Appointed Kitchen with Coal Heated Bathroom	Well Appointed Kitchen with Gas Heated Bathroom	1860
	Well Appointed Kitchen with Coal Heated Bathroom	1861

KOVO

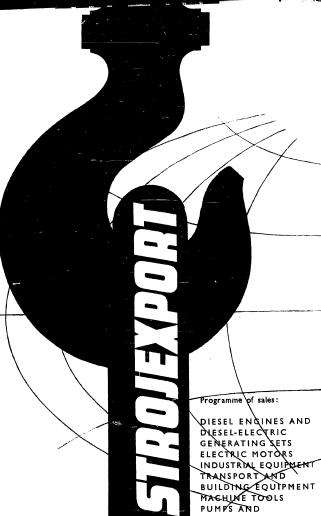
M 6 S Maxigraph	2001
Signal Box	2002
Watt-hour Meter	2003
Regulating Transformer	2004
Current Transformer	2011
Hi 5 Switchboard Instrument V	2021
Hi 5-A	20 22
Hi 5-W	2023
Hi 5 Phasemeter	2024
Instrument for the quick and dependable measurement of	
NULLOMET protective system 45	2044
Small MK Compensator	2050
Large QLK Laboratory Compensator	2072
Desk Set of the Large Laboratory Compensator	2073
MLG Small Handle Type Resistance Bridge	2082
GKM Special Compensator	2083
Switchboard Instruments with 240° Scale	2084
Switchboard Instruments with rotating Magnet R8	2085
Type DHR 8/z Shock-Proof Instruments	2086
Frequency Recorder	2087
D. C. Clamping Type Ammeter	2088
Radiosound	2089
Pyranograph	2097
Chirota Centrifuge	2124
Media Centrifuge	2125
Aeroscope	2126

STROJEXPORT

Lathes
Milling Machines
Grinding Machines
Boring and Drilling Machines
Shaping, Planing and Slotting
Machines
Circular Saws
Presses
High-Speed Wire Nail Machine
Shears
Bending Machines
Spring Hammers
Swaging Machines
Universal Automatic Coil Spring
Manufacturing Machines
Diesel Engines and Diesel
Generating Sets
Electric Spark Erosion Machines
Welding Sets
Electric Motors
Electric Motors
Electric Motor Equipment
Railway Illumination Equipment
Electric Apparatus
Lightning Arresters and Torok Tubes
Fittings

Central Heating Equipment Gearboxes Mining Equipment mining Equipment
Dairy and Soda-Water Manufacturing
Equipment
Brick-Making Equipment Equipment for Stone Crushing Mills and Ore Dressing Plants Flour Mill Equipment Locomotives
Locomotive Fittings Tramway Car Coaches and Wagons Mine Cars and Narrov Gauge Dumpcars Wheels and Axle "Dako" Braking Equipment Mechanical Shovel **Electric Battery Trucks** Belt Conveyors Electric Hoists, Pulley-Blocks, Travelling Carriages and Pull Lifts Narrow Gauge Open Cast Mine Locomotives **Excavators** Bridges (Models) **Building Machines** Pumps Compressors Fuel and Viscous Liquid Pumps Various Machine Tools Automatic Bottle Filling Plant X-Ray Units Electromagnetic Testing Devices Hardening and Drying Machines, Presses and Welders Watchmaker's Lathe Engine with waste heat Utilization equipment Auxiliary Machine Tool Instruments Commutator Dynamometer Galvanizing Sets Rotor Squirrel Cage Measuring Set Electric Spark Generator Selenium and Mercury Rectifiers





1 Center Lathe Mn 80

Precision centre lathe for machining small parts of all kinds of metals, especially well-suited for the fine mechanical industry.

Swing over bed Distance between centers

160 mm 250 mm Speed 160—1600 r.p.m. Input 0,25 kW Weight of machine 175 kg

2 LAMA Fine Engineering Lathe

This machine is designed for precision fine engineering jobs. It is also suitable for short length chasing operations. It is equipped with collet-chuck.

Height of centres above bed 145 mm
Spindle bore 10 mm
Distance between centres 275 mm
Swing over bed 80 mm

3 Universal Center Lathe S 28

Suitable for piecework and small volume production. Also recommended for tool rooms. Automatic feed switching-off.

Swing over bed
Distance between
centers
Speed
To special order
Input
Weight of machine

280 mm
750 mm
20-1 600 r. p. m.
63-3 150 r. p. m.
1 080 kg

4 Universal Lathe SV 18 R with IKS I Hydraulic Copying Attachment

The machine meets all requirements of high dimensional accuracy and smooth finish of the machined parts. It may be used for both single piece and multiple part production according to pattern (with IKS hydraulic copying attachment).

Maximum swing with follow rest Swing over carriage Speed 100 mm 60 mm r. p. m.

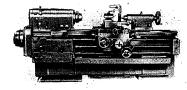
Distance between centers 1 000 mm Input 6 kW

5 SU 50 Center Lathe with IKS II Hydraulic Copying Attachment

Intended for single part and small scale production of medium sized machinery parts. Fitted with copying attachment the machine can be used for quantity production of shaped pieces according to pattern.

Maximum swing in follow rest Swing over carriage Distance between centers Spindle speed range I1,2—1 400 r. p. m.

Input 2,5,5 kw



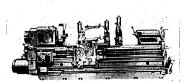
STROJEXPORT

COMPRESSORS ZECHOSLOVAKIA

6 Centre Lathe SU 63/2000 with IKS III Hydraulic Copying Attachment

Intended for accurate machining operations using one or more tools. The machine is particularly suitable for the single part production of large non-uniform parts. The attachments make this machine universal and increase its range of application to all operations.

Swing over bed 630 mm Speed 8—1 180 r, p. m. Distance between centres 2 000 mm Input 10 kW



7 Centre Lathe SN 45

This new universal lathe is designed for workshops, repairs shops and single piece production. The especially rigid bed is provided with a gap and taper turning attachment.

Swing over bed swing in bed gap 450 mm 660 mm Width of bed before the chucking plate Spindle speeds (13 rates) Motor output 4,4 kW 4,4 kW

8 Centre Lathe SN 40/1000

The lathe cuts metric, Whitworth, module and diametral pitch threads. It is designed for precision machining and medium outputs. Its simple and excellent design facilitates operation and maintenance. Suitable for both flange electric motor or transmission drive.

Swing over bed 400 mm
Swing in gap 600 mm
Width of gap before clamping plate 240 mm
Width of bed 320 mm
Spindle bore 48 mm
Range of speeds 22-1 400 r. p. m.
Input 16 4,4 kW
1550 kg

The end of the spindle has a short taper with bayonet-joint.

9 High-Speed Centre Lathe SRX 1000/400

This new type of heavy duty universal lathe with a wide range of speeds and feeds and powerful motor is designed for roughing, polishing and screwcutting operations on the entire turning length. By means of the electronic copying attachment shapes can be copied according to template up to the angle of 180°. Type SRX 1000/1 is equipped with electronic controlled feeds and the so called electric shaft for precision thread cutting.

Swing over bed
Maximum weight of workpiece
without rests
Output of main motor
Spindle speeds in 36 steps
Longitudinal rapid traverse

1 000 mm 10 000 kg 34 kW

34 kW 1,8—400 r. p. m. 1—1 500 mm per minute

10 Production Lathe SS 50/750

With IZS 200 thread cutting attachment. The machine is designed for the quantity production of medium sized parts in the chuck and between centres. By means of the thread cutting attachment all usual threads can be made up to 81 mm in length.

Swing over bed
Distance between centres
Spindle speed range
Motors for spindle drive
Maximum diameter of external/internal
thread

Pitch of metric threads Pitch of Whitworth threads 500 mm 750 mm 22,4—2 240 r. p. m. 22 kW

> 240/250 0,75—6 mm 28—4 thr./I''

11 Lathe SR 2000/600

The machine serves for machining of parts up to 50 tons in weight. The bed has three guideways, and the slide travels in guides along the tailstock. Each carriage has its own feed mechanism. The tailstock is power operated.

Swing over bed 2 000/2
Spindle speed 1,4—2
Distance between centers 6 000
Input 115

2 000/1 600 mm 1,4—280 r. p. m. 6 000 mm 115 kW

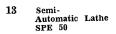
12 Semi-Automatic Lathe SP 31

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

Maximum dia. of workpiece Distance between centers Radial swing over carriage Speed

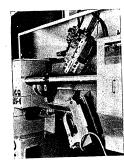
Input

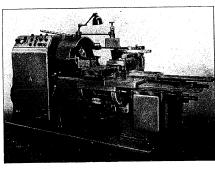
250 mm 1 050 mm 120/140 mm 71—1 800 r. p. m. 20 kW



The machine is intended for machining sized parts in quantity and multiple part production. It is especially suitable for machining by means of two tools.

Maximum dia 500 mm
Distance between centers Speed 54—512 r. p. m.
Input 16 kW





STROJEXPORT

19

14 Semi-Automatic Lathe SPT 7

The machine is designed for machining of cams from stock or forgings. All cams are simultaneously machined by means of the copying method, by the longitudinal feed of the tool rest into mesh. The feed into cut is started by means of the hand lever on the headstock. The machine can be operated in both direction if hydraulic control and guide-rod stops are readjusted. The rapid reverse movement of the rest in the opposite direction to the direction of machining is automatic.

Maximum length of chucked workpiece Maximum diameter of cam 70 mm

Range of longitudinal feeds infinitely variable Maximum longitudinal travel Maximum cross travel (stroke of cam) Main electric motor 650-1100-1500 mm 70 mm

70 mm 70 mm/rev. 20 mm

20 mm

5,5 or 7,5 kW

15 Turret Lathe RT 26

A heavy duty high-speed precision machine intended for the quantity production of small parts from bar stock or other profiles. The thread chasing attachment enables the cutting of all threads with the aid of a leader.

 Bar capacity
 26 mm

 Swing over bed with thread chasing attachment
 225 mm

 Swing over bed without thread chasing attachment
 340 mm

 Maximum chuck capacity
 110 mm

 Number of tool holes
 12

 Speed
 375-4 200 r. p. m.

 Input
 3.6 kW

16 Turret Lathe RN 60

The machine is suitable for machining of parts from bar stock or other profiles in quantity and multiple-part production. Maximum chucking diameter:

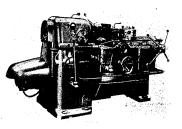
for round bars for other profiles Longitudinal travel of turret slide Speed Input

58 mm 290/170 mm 610 mm 71—1 600 r. p. m. 15,7 kW

17 Capstan Lathe R 5

Vertical turret. Preselection of spindle speeds. The machine is suitable for machining of parts from bar stock, forgings and castings.

Bar capacity 50 mm Swing over bed 510 mm Speed 28—1 400 r. p. m. Input 8,5 kW



18 Capstan Lathe R 25 V

A high production lathe of entirely new design, with enclosed bed, preselection of speeds and feeds, scheduled control, sychronized, with electromagnetic clutches.

 Swing over bed
 315 mm

 Number of tool holes
 6

 Spindle speeds (16 steps)
 18—3 150 r. p. m.

 Spindle bore
 36 mm

 Motor output
 5,5 kW

19 Semi-Automatic Turret Lathe RP 50

A new type of semi-automatic turret lathe, controlled by the indexing drum. It is especially suitable for machining of individual workpieces and bar stock. The automatic working cycle may consist of maximum five operations on workpieces up to 500 mm in dia. The operator only replaces the machined parts and starts the working cycle.

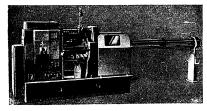
Swing over bed 500 mm
" avel of turret slide 330 mm
Travel of cross slide rest 125 mm
Speed (4 ranges) 10-1250 r.p. m
Motor output 16 kW

20-21-22 Automatic Turret Lathes A 12, A 20, A 40

These heavy duty machines are designed for the quantity production of parts of intricate shape. The various attachments enable the machines to be used for growing and other operations, and contribute to the versatility of the machines.

23 Automatic Lathe AN 35

Five spindles. The machine is 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 Maximum length of machining Length of working cycle Spindle speed range Input

35 mm 100 mm 4.1—402 143—1 900 r. p. m. 9 kW

STROJEXPORT

STROJEXPORT

24 Automatic Lathe ANK 135

Five spindles. The machine is suitable for machining of drop forgings, forgings and castings. Four spindles are in operation, the fifth spindle is used for chucking by means of compressed air.

Maximum diameter of workpiece Maximum length of machining Length of the working cycle Spindle speed

135 mm 100 mm 4,1—402 135—1 793 r. p. m. 9 kW



25 Vertical

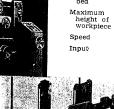
The machine is designed for machining of short and heavy parts up to 12 tons weight.

Lathe SK 25

83 kW

Swing over bed 2 500 mm

height of workpiece 1 600 mm Speed 0,67—35 r. p. m.



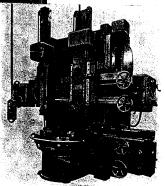
Wertical Lathe SK 12

The machine is designed for machining of short and heavy parts up to 4 tons in weight.

Swing over bed Maximum height of workpiece Speed Input

1 350 mm

1 000 mm 3,55-150 r.p. m. 27 kW



41 Vertical Milling Machine F 1 S

This smallest type of milling machine is intended for common milling operations on small machinery parts, individually manufactured as well as quantity produced.

Clamping surface of table . 150%550 mm

Longitudinal travel of table . 275 mm

Cross travel of table . 256 mm

Vertical travel of table . 200 mm

Spindle speed range . 190—3 070 r. p. m.

Motor capacity . 1,5 kW

43 Vertical Miller FA 2V

The machine is equipped with hydraulic copying attachment. It is designed for machining of dies, metal patterns, plastic moulds, etc. according to pattern.

Copying range.

Length 320 mm
Width 250 mm
Depth 120 mm

2 Horizontal Two-Lever Milling Machine F1J2

The machine is intended for quantity production of small parts, or individual simple operations in volume production.

Clamping surface of table 150×500 mm

Longitudinal travel 275 mm

Cross travel 125 mm

Vertical travel 180 mm

Spindle speed range 190—2 100 r. p. m.

Motor capacity 1,1 kW

44 Universal Miller FA 3V

The machine is intended for machining of complex workpieces, milling grooves, circular screw threads, etc. and operations requiring longitudinal cutting.

Clamping surface of table 250%1 250 mm

Longitudinal travel 800 mm

Cross travel 275 mm

Vertical travel 400 mm

Range of spindle speeds 45—2 000 r. p. m. Input of machine 4,2 kW

45 Plain Miller FH 2a

With gear shaving attachment. The machine is intended for single part and quantity production of intricate parts. Its range of application is increased by the shaving gear attachment replacing a single-purpose machine.

Working surface of table

Longitudinal travel

Cross travel

Vertical travel

Range of spindle speeds

Input

300×1350 mm

800 mm

310 mm

485 mm

31,5—1000 r. p. m.

46 Turbine Blade Repetition Milling Machine PTK 30 (FA 4 V)

This machine is based on the FA 4 V vertical miller design. It is provided with hydraulic copying attachment, and copying is made according to the master piece. Both convex and concave blades can be manufactured.

Bracket repetition stroke Maximum speed of bracket travel Hydraulic pump motor 80 mm 10 mm per second 0,55 kW

22

STROJEXPORT

STROJEXPORT

47 Plain Miller FA 5H

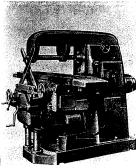
Automatic feed release by means of adjustable stops. The machine is intended for heavy duty mill-

ing. Equipped with automatic feed release the machine is suitable for quantity production of machine parts. Simultaneous chucking and machining provides high economy.

Working surface of table
Longitudinal travel
Cross travel
Vertical travel
Range of spindle
speeds
Longitudinal travel
Range of spindle
speeds Input

425×2 000 mm 1 400 mm 440 mm 450 mm

18—1 400 r. p. m. 11 kW



48 Tool Milling Machine FN 22

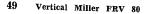
The machine is suitable for the manufacture of complex tools, dies, metal gauge patterns, etc.

It is especially recommended for tool

rooms.

Clamping surface of vertical Clamping surface of vertical table
Clamping surface of tilting table
Longitudinal travel of table
Cross travel of headstock
Range of spindle speeds
Input

200X640 mm
200X640 mm
300 mm
300 mm
150 mm
40-2000 r. p. m.



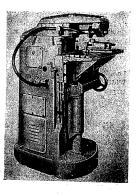
The machine is suitable for milling of The machine is suitable for milling of heavy workpieces in both single and multiple part production. Longitudinal and cross travel of the working table. Vertical feed of headstock on slide. The machine is available with a swing table.

Maximum height of workpiece 2 380 \times 790 mm Chucking width \times length of table 1 000 mm Longitudinal travel of table 1 500 mm Cross travel of table 1 500 mm long travel of headstock Range of spindle speeds Input 15 kW

50 Vertical Milling Machine FV 1000

A new type of high duty precision machine, with scheduled control and automatic working cycle. Electronic control of feeds. The machine is suitable for diagonal milling in all quadrants of the horizontal plane. It can be equipped with a swivelling head.





Chucking width × length of table
Maximum height of workpiece
Longitudinal travel of table
Cross travel of spindle
Vertical travel of spindle
Spindle speeds arranged
in 12 steps
or arranged in 24 steps
Motor output

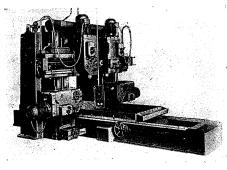
1 000×2 500×3 150×4 000 mm 800—1 000 mm 2 240—2 800—3 350 mm 1 100 mm 600 mm 8—950 r.p.m. 11,2—1 000 r.p.m. 37 or 45 kW

51 V Double Housing Milling Machine FP 20

This heavy duty precision machine is intended for the heaviest mill-This heavy duty precision machine is intended for the neaviest mining on large machinery parts in single or multiple part production. The machine is provided with several headstocks (both vertical and horizontal) with independent drive which may operate simultaneously. The travel of the table is controlled by means of the Ward-Leonard

Working surface of table Length of bed Distance between housings Range of spindle speeds Input according to the number of headstocks

1 600—4 000 mm 8 000 mm 2 060 mm 10—500 r. p. m. 37—100 kW



Universal Miller FRU 63

Intended for milling of plane surfaces of heavy machine parts in both single and multiple part production. Vertical travel of headstock.

Working surface of table Longitudinal travel of table Cross travel of table Longitudinal travel of headstock Range of spindle speeds

630×2 240 mm 1 750 mm 600 mm 820 mm 12.5—630 r. p. m. 10 kW

Multi-Spindio Milling Machine FIA 40

The machine is intended for machining of plane surfaces by means of several spindles working simultaneously. Each headstock has its own motor drive. This machine and the double housing milling machine ine are similar.

Working surface of table Travel of table Travel of spindles Capacity of motor for headstock drive

400×1 600 mm 1 150 mm 200 mm 3 kW

STROJEXPORT

54 Milling Machine with draw-out arm FEP 2

The machine is suitable for milling of surfaces and drilling of holes on large and heavy workpieces which are not easily accessible. The tilting headstock is located on the end of the draw-out

Length of draw-out arm 2 500 mm Travel of column in bed 3 000 mm Vertical travel of draw-out arm 2 000 mm Angle of inclination of the column 0—180° Electric motor of spindle 11 kW



Universal Cam Milling 55 Machine FEK 80

This special heavy duty machine is designed for milling of face or peripheral cams by mechanical copying from templates. The headstock moves along the column and can also be moved sideways.

Milling capacity: peripheral and face cams up to a dia-meter of

800 mm

cylindrical cams up to a diameter of 750 mm

Range of spindle speeds 100-1000 r.p.m. Input 2,2 kW

56 Die-Sinking Machine FKO 8b 1 Gory

The machine is intended for heavy duty precision milling of shapes in metals, such as moulding tool dies, die-casting moulds, etc. according to patterns or templates. The machine is manufactured in three

models, as follows:

A — for the sinking in coordinates and for contour die-sinking.

B — which has the same working facilities but on which objects can also be milled which are the mirror image of the pattern, which has the same working facilities as both above described machines but has, in addition, two revolving tables for circular die-sinking. The machine is controlled by the electric feeler the impulses of which are governed by three electromagnetic clutches of the three dimensioned feed mechanism.

Working surface of table Vertical clamping surface Vertical travel of table Cross travel of carriage Vertical travel of headstock Range of spindle speeds Input

1 450× 700 mm 1 140×1 325 mm 1 000 mm 400 mm 800 mm 70—800 (335—3 600) r. p. m. 7 kW

Vertical Miller FA 5 V with bevel gear milling attachment

This vertical milling machine of well proven design, is equipped with an attachment for milling of bevel gears with helical teeth. Precision gears may be cut by means of this attachment, without the use of special machinery.

Maximum diameter of milled gear Maximum module of milled gear

300 mm

Dividing Gear Lathe OKU 35/P5

The machine is intended for machining spur and bevel gears. The teeth may be straight, helical or herringbone. The machine is especially suitable for machining herringbone gears without gap in the centre. For milling cheap end mills are used. The working cycle is fully automatic.

Maximum number of teeth	400	
Minimum number of teeth	6	
Maximum module	35	
Maximum gear diameter 1:1	2 000	mn
Minimum gear diameter	100	mn
Maximum width of rim	300	mn
Input of main motor	12	kW

59 Gear Hobbing Machine OF 6A

A new, improved type of gear hobbing machine. The machine is equipped with a powerful motor and a wide range of speeds. It is compact and of rigid design. More economical machining methods can be applied.

Maximum module Maximum diameter of gears Maximum width of gears Work spindle speeds Output of main motor

6 metres 800 mm 300 mm 3,5—200/50— 7,5 kW

60 Gear Hobbing Machine OF 10

The machine is intended for precision production of spur, helical and worm gears by hobbing.

Maximum module 10 Maximum diameter of gear 1250 mm Maximum width of gear 400 mm Output of main motor 7,5 kW

61 Gear Hobbing Machine OF 16

A larger type of machine used for hobbing of spur, helical and worm gears.

Maximum module	16
Maximum diameter of gear	2 000 mm
Maximum width of gear	560 mm
Output of main motor	11 kW

62 Vertical Miller FA 5 V with bevel pinion milling attachment

This attachment is a counterpart of the similar bevel gear milling attachment. It is suitable for machining of pinions designed to be in mesh with bevel gears with helical teeth which are produced on the above described machine. No single purpose machine is re-

26

STROJEXPORT

STROJEXPORT

Semi-Automatic Needle Cylinder Groove Cutter FEAI

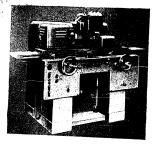
The machine is designed for automatic milling of needle bed and cylinder grooves, 60-900 in dia., 0.2-1 mm in width and 10 mm in depth with an accuracy of 0.02 mm. Number of grooves 48-2200.

Saw diameter Spindle speed Feeds (high-speed feeds) Diameter of work table Overall input 70—80 mm 45—450 r.p.m. 6,3—80/2 000 mm per minute 800 mm 2,35 kW

07 Universal Grinding Machine BUA 20

This machine of improved design is intended for mass and single part production. Automatic working cycle. Grinding wheel balanc-ing device. Electricity contact diameter meter.

Swing over table 200 mm Distance between centers 450 mm Spindle speed range 50-650 r. p. m. Input 2,7 kW

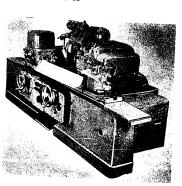


82 Universal Grinding Machine BUA 31

The BUA 20 and BUA 31 The BUA 20 and BUA 31 grinding machine are similar, the latter is larger. It can also be used for single part or mass production. Automatic works duction. Automatic working cycle. The grinding wheel is dynamically balanced in appearance of the control of th anced in operation. Elec-tricity contact diameter meter.

Swing over table Distance between centers Spindle Speed range Wheelhead 315 mm 1 000-1 500-2 000 mm 20-500 r. p. m.

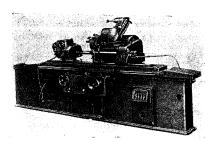
motor



83 Universal Grinder BK5/1000

The machine is intended for both quantity and single part production. It is suitable for cylindrical, taper and face grinding, both internal and external. The machine is operated by a single hand-lever if the grinding operation of the same workpieces is repeated.

STROJEXPORT



Swing over table Distance between centers Range of spindle revolutions Input (overall)

Automatic Hole Grinder BDA 63 Maria Day

The machine is designed for grinding holes of medium and large dimensions by means of the automatic working cycle. For smaller lots the machine may be controlled by hand. The automatic working cycle control is easy and tool setting does not require much time.

630 mm

Swing over bed
Maximum/minimum grinding
diameter
Maximum grinding diameter
by spindle readjustment
Maximum depth of hole
Overall input
Speed of wheel spindle
Speed of work spindle

250/80 mm 400 mm 315 mm 8—10 kW 3 000, 6 000, 4 000, 8 000 r.p. m. 28—450 r.p. m.

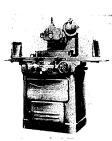
Horizontal Surface Grinder BPH 20 A

This machine with automatic, hydraulically or manually controlled working cycle is designed for precision grinding of plane

Working surface of table Grinding wheel diameter X width Spindle speed Speed of longitudinal table travel Cross feed table range

200×630 mm

250× 20 mm 3 600—2 500 r. p. m.



86 Vertical Surface Grinding Machine BPV 300/1000

A heavy duty precision machine for grinding of plane surfaces. The grindstones are inserted in the sector type grinding wheel. Suitable for single part or mass production. The wheel head has flat guideways and is adjustable for height. The rapid traverse is driven by an independent electric motor.

Clamping surface of table Maximum grinding width
Longitudinal travel of table
Rate of longitudinal feed of table
Motor for grinding wheel spindle
drive 300×1 000 (300×1 500) mm 300 mm 1 385 (2 050) mm 2—16 metres per minute

87 Centreless Grinding Machine BBZ 60

Suitable for multiple part and quantity production. Used for through-feed and infeed grinding of cylindrical and tapered surfaces on plain, shouldered and other shaped rotating objects. Hydraulic wheel dressing and wheel head feed.

Maximum dia. of workpiece Minimum dia. of workpiece Motor for grinding wheel spindle drive

88 Centreless Grinding Machine BB 10

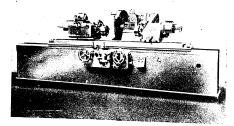
This new type of machine is designed for high precision grinding of external cylindrical and tapered surfaces as well as parts of various shapes. It is equipped with the infeed working cycle.

Average diameter of grinding wheel Grinding range Speed of grinding wheel Speed of regulating wheel (7 steps) Overall input

500/200 mm 3—100 mm in dia. 1 200 r. p. m. 12,5—35,5 r. p. m. 15 kW

Crankshaft Grinding Machine 4C/1700

A heavy duty precision machine for grinding of main and big end journals of crankshafts. Angle of inclination 90°, 180° and 120°. In view of the fact that the machine is equipped with a hydraulic feed of the table and automatic feed of the wheelhead it can also be used as a standard cylindrical grinder.



Maximum diameter of workpiece Maximum distance between chucks Maximum eccentricity of pins Motor capacity

500 mm 1 600 mm 120 mm 5 kW

Universal Tool Grinder BN 102

This machine is intended for sharpening various cutting tools, such as cylindrical and tapered reamers, end and side milling cutters with straight or helical cutting edges, recessed milling, cutters, taps, countersible save at

Grinding diameter
Distance between centres
Longitudinal travel of table
Cross travel of table
Vertical travel of wheelhead
Spindle drive motor

500 mm 440 mm 240 mm 230 mm 1,2 kW

Lathe Tool Grinder SK BBT 350

The machine is intended for grinding the cutting surfaces of cemented carbide tipped tools. It is equipped with wheel trueing devices mounted on swivelling holders.

External diameter of grinding wheel Internal diameter of grinding wheel Dimensions of tables Maximum angle of tilt of tables Electric motor

270 mm 210×560 mm + 20 °

Circular Saw Grinder BP 12

The machine serves for automatic grinding of circular saw blades.

Diameter of saw blade Grinding wheel dia. \times width Electric motor

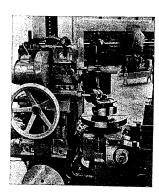
260—1 200 mm 220×13 0,75 kW

93 Universal Cam Grinding Machine BEK 80

A special heavy duty machine de-A special heavy duty machine designed for grinding of peripheral, face or cylindrical cams by mechanical copying from templates. The workhead swivels on heavily dimensioned pins by operating a hand crank.

Grinding capacity: peripheral and face camps up to a diameter of cylindrical cams up to a diameter of Maximum rise of machined

750 mm



94 Circular Saw Grinder BP 2

The machine serves for grinding of circular saw blades and metal and wood band saw blades with the aid of special attachment.

Diameter of saw blade Maximum thickness of saw Electric motor

20-350 mm 10 mm 0,25 kW

End Mill Cutter Grinder BNH 70

The grinder is used for sharpening of R. H. and L. H. end mill cutters and cutting tools by means of the automatic working cycle.

Maximum and minimum diameter of end mill cutter Maximum and minimum number of cutters Work speed Grinding wheel speed (3 steps) Overall output of motors

40—2 7—16 r. p. m. 1 830—4 420 r. p. m. 4,9 kW

STROJEXPORT

STROJEXPORT

Gleason End Mill Cutter Grinder BNG 12

The grinder is used for sharpening of R. H. and L. H. Gleason end mill cutters by means of the automatic working cycle.

Maximum and minimum diameter of end mill cutter Maximum and minimum number of cutters Maximum diameter of grinding wheel Grinding wheel speed Overall output of motors

305-152 mm 200 mm 2 800 r. p. m. 3,4 kW

Table Type Surface Grinder BM 400

The machine is designed for hand grinding of plane surfaces and edges especially in assembly work.

Dimensions of table External/Internal dia, of grinding wheel Motor capacity

400×350 mm 3,2 kW

Electroabrasive Tool Grinder BJS 18

The machine is designed for grinding cutting tools by the electro-abrasive method. The grinding wheels are made of special sintered material. The machine is equipped with semi-automatic tool grind-

Dimensions of grinding wheel, dia. \times width Spindle speed Motor output

180×50 mm 1 600×3 150 r. p. m. 2.2 kW

Twist Drill Grinding Machine BNV 75

The machine is intended for grinding twist drills with two cutting edges. Epicyclic and simultaneous oscillating movement of the work

Minimum diameter of twist drill Maximum diameter of twist drill Minimum apex of drill Maximum apex of drill Grinding wheel speed Speed of chuck Motor capacity

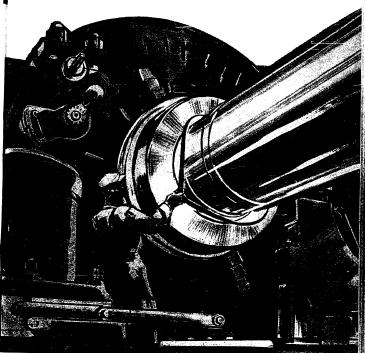
Tool Post Grinder SBMU

This machine is used for grinding operations on a lathe or planing machine. It can be fitted to any normal lathe, and is suitable for external or internal taper and cylinder grinding as well as face grinding. It is equipped with a micrometric sliding attachment, and single-phase motor, and can be connected to the plug. Type SBMT is provided with a powerful three-phase motor. The assembly with standard accessories is supplied in a box.

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.

TRADITION OF MANY YEARS

A tradition of many years, the guarantee of quality in any production. Tradition helps natural talent to develop into mastery and accumulates



valuable experiences. Czechoslovak machine tools possess such a tradition. All their advantages of design and production are based on the wealth of experiences of the Czechoslovak engineering industry.

> The programme of Czechoslovak exports includes more than 400 types of machine tools which are exported exclusively by

STROJEXPORT PRAHA - CZECHOSLOVAKIA

STROJÍRENSTVÍ

TECHNICAL PERIODICAL OF MECHANICAL ENGINEERING FOR ENGINEERS, DESIGNERS AND OTHER TECHNICAL WORKERS

Every month an issue of 80 pages

Cam Grinding Machine BEK

The apparatus has been designed to eliminate many defects in operation of crude oil or petrol internal-combustion engines. The defects were caused by the vibration of the camshaft consisting of cams of three or more semi-circles (harmonic motion cams). The valve springs were unable to stand the stress contact of the various elements so that the tappet broke away from the cam, and contact surface of the cam and tappet or springs were damaged. By means of uniformly accelerated motion cams, vibration can be reduced. The prototype of this simple cam grinding machine is intended to develop the technique and quality in the production of uniformly accelerated motion cams.

Oscillating Grinders OB1-1 Kutin 2-The OB 2-I

oscillating grinder is used for grinding races of external ball bearing rings, i. e. single-row, double-row, self-aligned or thrust bearings up to 9 mm, in diameter.

The OB 1-I

Maximum grinding diameter Diameter of grinding wheel Number of oscillations Angle of oscillation

8 + 22 mm7 + 20 mm90 per minute $<math>\pm 20^{\circ}$

Oscillating Grinders OB 2-I

Maximum grinding diameter Dimensions of grinding wheel Minimum diameter of grinding wheel (worn out) Number of oscillations

?2 mm 300/127×5 mm in dia 220 mm + 20

Semi-automatic Cam Grinding Machine BEK 15

The BEK 15 cam grinding machine is equipped with the automatic working cycle for camshaft grinding. After tool setting the operator only has to see that the camshafts are inserted and removed. The cams are ground successively, and when the operation on one piece comes to an end, the table automatically moves into position to receive the next workpiece. In view of the automatic working cycle one operator can operate two or even more machines according to the number of machined cams on the camshaft.

Grinding length Hydraulic feed of table Diameter of grinding wheel Width of grinding wheel Bore of grinding wheel

900 mm 0,1—0,6 m/min 600 mm 15/40 mm 406 mm

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.

The machine has four independent drilling headstocks which may be stopped simultaneously. It is used for quantity production if operated with various attachments.

Drilling dlameter Drilling depth Vertical travel of headstock Range of spindle speeds Input of electric motors

122 Table Type Drilling Machine V 10

The machine is designed for simple drilling operations. It is equally well suited for single part production in small workshops and assembly work. The machine can also be supplied as a multi-spindle line drill assembled of individual headstocks on a common base

Drilling diameter Drilling depth Clamping surface of base Vertical motion of headstock

230 mm 220×280 mm 230 mm 500-4 000 r. p. m. 0,5 kW

123 Column Drill VS 16

The drills are supplied as column, table or multi-spindle line drills.

Drilling diameter Drilling depth

125 Radial Drill VR 2

The machine is designed for drill-The machine is designed for drilling and boring of holes, as well as for cutting of threads in medium sized machine parts. It is suited for both single part and quantity production. Partial preselection of spindle speeds. Raising of arm by power. Clutch reversing mechanism.

Drilling diameter Diameter when drill-ing in east fron Drilling depth Taper in spindle Spindle speeds Working surface Motor output

35 mm 225 mm Morse 3 90-4 500 r. p. m. 850-780 mm 1,5 kW

Vertical motor.
headstock
Clamping surface of
table:
Horizontal (vertical)
Spindle speeds
Spindle speeds
0.8 kW

126 W Radial Drill VR 103 A

machine is intended for ing and boring of holes or drilling and driling and boring of noise or cutting of threads in big machinery parts. All controls are arranged on the spindle head Available with box type or universal drilling table.

Maximum drilling diameter diameter Maximum diameter when drilling in-grey cast iron Drilling depth Taper in spindle Speed range Motor output

475 mm Morse 6 11,2—1 00 13 kW 000 r. p. m.

100 mm

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.

124 Upright Drill V 50

Available in two types: V 40 and V 50The machine is intended for drilling of holes in medium sized workpieces. The headstock is adjustable on the column for height.

Drilling diameter Drilling depth Taper in spindle Spindle speeds Electric motor

50 mm 265 mm Morse 5 37—760 r. p. m.

127 Radial Drill VR 6

A larger type of VR radial drills, suitable for quantity production of machine parts. Multi-spindle head.

Maximum drilling diameter Maximum diameter when drilling in-cast iron Drilling depth Taper in spindle Speed range Motor output

80 mm 380 mm Morse 5 16—1 400 r. p. m. 7 kW

25X1

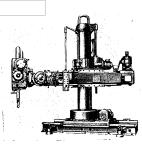
60 mm

128 V Portable Drill VRM 50

This new type of drill is designed for drilling of holes and cutting of threads in large workpieces. of threads The headstock can be swivelled around the horizontal axis and tilted sideways by 90° around the axis which is vertical to the horizontal arm motion.

Drilling diameter Drilling depth Taper in spindle Spindle speeds Motor of headstock

350 mm Morse 4—5 16—803 r. p. 4 kW



Multi-Spindle Drilling Machine VM 1/24

The machine is intended for drilling of holes in medium sized machinery parts, countersinking, reaming and tapping. It is suitable for quantity production, and can be used for simultaneous drilling of 24 holes. The headstock is moved hydraulically.

Number of spindles Maximum drilling diameter Drilling area Spindle speeds Motor for spindle drive

–1 800 r. p. m.

Multi-Spindle Drilling Machine VM 8 15 mui-

This machine is a larger type of VM 1 drill. It can be provided with maximum 36 spindles. It is used for the same operations as the VM 1

Maximum diameter of drill Vertical travel of headstock Dimensions of table Spindle speeds Motor of Crilling head

20 mm 450 mm 630×1 200 mm 63-500/125-1 000/ r. p. m. 11 kW

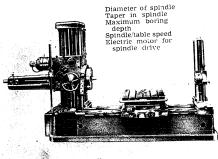
KOVOEXPORT, Czechoslovak Export Magazine of the Czechoslovak Light and Precision Engineering Industry.

34

STROJEXPORT

131 Horizontal Boring Machine H 63

The smallest boring machine available. It is designed for drilling, boring, milling, screw cutting, etc. operations in single part production.



280/560 8-1400/8-180 r. p. m.

4 kW

Horizontal Boring Machine WH 80 132

Bench type boring machine with spindle 80 mm in dia. Principal features: Higher output and stability,

Higher output and stability,
Independent feeds,
Wide range of speeds and feeds,
Double drive of the work spindle,
Infinitely variable feed,
Automatic revolution adjustment in either direction,
Illumination of gauges,
Microelectric stops with electric preselection.

Maximum boring depth by single 710 mm Maximum boring diameter with Maximum boring diameter wallde Clamping surface of table Spindle speed (24 steps)
Face plate speed Infinitely variable feeds
Input of main electric motor 750 mm 900×1 120 mm 8—1 600 r. p. m. 8—250 r. p. m. 0.5—1 250 mm per minute 11 kW

Horizontal Boring Machine VH 100 133

A new design of a heavy duty boring machine. The machine is controlled by means of push-buttons of the recording plate. The work spindle is used for boring and drilling only. The hollow spindle is intended for milling. Attachments for various machining operations can be fitted to the side of the machine.

Diameter of work spindle
Maximum drilling diameter
Maximum drilling depth
Longitudinal travel of table
Cross travel of table
Surface of table
4 trates of feed
Motor output

100 mm 900 mm 900 mm 1 600 mm 1 250 mm 1 250×1 600 mm 6.3—1 250 17 kW

134 √ Horizontal Floor Plate Type Boring Machine WD 160

The design of the machine is based on entirely new principles. The quill contains all controls, and serves as the spindle rest. The machine is equipped with disc type remote measuring gauges, independent, infinitely variable feeds and screwcutting equipment.

Diameter of spindle Maximu. length of quill Vertical movement of headstock Travel of column on bed Spindle speeds Output of main motor

160 mm 1 250 mm 2 500 mm 3 150 mm 2—800 r. p. m. 35 kW

Horizontal Floor Plate Boring Machine WD 250 $135 \checkmark$

The design of the machine is based on entirely new principles. It has two spindles, a main spindle and a high speed spindle, arranged above each other. The headstock has a horizontal movement in headstock has a horizontal movement in the rear slide. The feeds are infinitely variable independently of the spindle speed, and controlled by commutator motors. The high spindle speeds considerably extend the working range and utilization of the machine for high speed machining. The machine is equipped with dics type remote measuring gauges, affording a reading with an accuraty of 0.02 mm, of the distances through which both spindles and the headstock slide travel.

> Diameter of main spindle Diameter of high speed spindle Sliding movement of headstock Maximum depth of boring with main spindle Maximum depth of boring with high speed spindle speeds
> Main spindle speeds
> High speed spindle speeds
> Vertical movement of headstock on column
> Travel of column on bed



250 mm 2 250 mm

630 mm 2—400 r. p. m. 6,25—1 250 r. p. m. 4 000 mm 5 000 mm

Jig Drilling Machine WKV 100 A A A Section 1855 1855 136

The machine is designed for drilling and boring in accurate pitches, and milling of accurate vertical surfaces. It is equipped with a horizontal and vertical headstock. The travel of the table is hydraulically operated.

Dimensions of table Vertical travel of cross beam Cross travel of vertical headstock Vertical travel of horizontal headstock Spindle speeds (18)

1 000×1 600 mm 750 mm 1 000 mm 40-2 000 r. p. m.

137 Electric Bench Drill V 6

Maximum diameter of drill Drilling depth Speed (4 steps) Motor output

6 mm 60 mm 1 000—10 000 r. p. m. 0,25 kW

STROJEXPORT

37

STROJEXPORT

Building Block Automatic

The machine serves for complete machining of the meat mincer body of two sizes. Each type of meat mincer has its own clamping device. Approximate output: 60 meat mincers per hour. Approximate weight of the machine: 6000 kg. Overall motor output 12 kW.

139 Six-spindle Fine Boring Machine

The machine has on either side a multi-spindle headstock contain-The machine has on either side a multi-spindle headstock containing 6 spindles in slide bronze bearings. The boring spindles are divided from the driving spindles by a spring clutch. The machine is provided with a hydraulically controlled cross table. The set of tools consists of 12 carbide tipped boring rods adjusted by means of gauges to the required diameter. The machine is designed for boring holes in the R injection pump body. Pump bodies for 4, 5, 6 or 8 cylinder engines can be machined.

Number of spindles Spindles with thread Working table feed High-speed table feed Maximum stroke of table Input Output of the machine

M 33
R-200 mm per minute
4 000 mm per minute
800 mm
8,8 kW
30 pces. per hour

Two-spindle Fine Boring Machine

The machine is equipped with two heavy headstocks with flange spindles, two driving generating sets with auxiliary motors for automatic adjustment of the spindles into the required position, and the facing attachment which simultaneously controls the slides of both boring rods. In addition the machine has a circular table with four hydraulic clamps, pumping generating set, tool cooling equipment and automatic mechanism for adjustment of the circular table from the starting position into the working position, securing the circular table and starting the headstock. The machine is designed for precision machining of main holes in the rear axle box of the \$440 passenger car. The parts are made of steel alloys.

Number of headstocks

Number of headstocks
Spindles with flange
Working table feed
High-speed table feed
Maximum stroke of work table
Hydraulic working pressure
Output of the machine

2 180 mm in dia. 8—200 mm per minute 4 000 mm per minute 800 mm 10 at. 12 parts per hour.

Fine Boring Machine 72009

The machine is designed for machining of the left half of the PIONYR motor cycle crankcase. The part is a light metal casting. The machine is of horizontal, double-sided type with rigid headstocks and hydraulically controled table. The parts are chucked hydraulically. hydraulically.

Number of spindles Spindle speed Work table feed/high-speed feed Movement of table Motor of hydraulic power equipment Main motor

3 400 r. p. m. 8-200/4 000 mm per minute 800 mm

Gear Shaper OH 6

The machine is used for the production of internal and external spur, helical and herringbone gears, and if provided with special attachment, also for generating racks.

Maximum module	6
Maximum diameter of spur gears	500
Maximum diameter of gears	90 mm
Number of strokes per minute	50315
Electric motor output	3 kW

162 Shaving Machine OS 30

This machine is intended for shaving, i. e. precision finishing of spur gears with straight, worm, helical and herringbone teeth. The machine is provided with automatic working cycle. It stops as soons as the operation or finished.

Maximum pitch diameter of gear	300 mm
Minimum pitch diameter of gear	30 mm
Maximum width of gear	200 mm
Maximum module	6 metre
Maximum distance between centres	410 mm
Output of main motor	3 kW

163 Gear Shaper ETK 25

This entirely new machine cuts gears on the new hot moulding-H. F. heat generating principle. The gears are of a high strength and durability, and can be further processed by all machining methods. Eventually teeth are obtained. The process is fully automatic and lasts 1.5 to 2 minutes according to the size of the gear.

Maximum module of cut gear	4 metre
Minimum module of cut gear	1,5 metre
Maximum gear diameter	250 mm
Minimum gear diameter	60 mm
Maximum width of gear	40 mm

The periodical CZECHOSLOVAK FOREIGN TRADE supplies informa-tion 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 illus-trated periodical, issued six times annually in English, German, Russian, Spanish, Portuguese and French.

38

STROJEXPORT

164 V Single Housing Planing Machine HJ 8A

The machine serves for planing of small workpieces in single part production. It is especially suitable for planing of parts which are larger in width than the clamping surface of the table.

Planing width
Planing length
Infinitely variable speed
Electric motor for table drive

800 mm 1 250 mm 30 metres per minute 5,5 kW

165 Double Housing Planing Machine HD 16/4000

The machine serves for planing of heavy workpieces in both single part and quantity production. The working table is driven by means of the Ward-Leonard system.

Planing width
Planing length
Planing height
Maximum pulling power
Table speeds
Input

1 600 mm 4 600 mm 1 600 mm 9 500—8 000—6 300 kg 3—8—80 metres per minute 45 kW

Slotting Machine HOT 100 $-5\% \cdot 6\% + 7$

This special machine is designed for large works, for machining of plane surfaces on large workpieces which cannot be chucked on standard machine tools. It is also suitable for machining surfaces of assembled workpieces. The machine is moved to the workpiece.

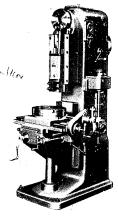
Height of stroke 1 000 mm Cross travel of ram 250 mm 800 kg Maximum pulling power Travel of table 1 500 mm Feeds 0,2—1 mm Cutting speed 5,6-8-11,2 r. p. m. Motor output

Slotting Machine HOV 25 Holica

The machine is designed for machining of plane and circular surfaces and internal slots of individually manufactured machinery parts. The power operated longitudinal, transverse and circular movements of the table are adjustable.

Maximum length of stroke Diameter of clamping table Number of up-and-down strokes per minute Maximum pulling power

22,4-112 1 000 kg Motor output 4,5 kW



Shaping Machine HO 20

40

The machine serves for machining of small workpieces in single part production. It is especially suitable for tool rooms.

250 mm

500 mm

Shaping length Shaping width Vertical travel of table Number of up-and-down strokes per minute Motor output

Shaping Machine HO 63

A heavy duty precision machine for machining of medium sized workpieces, suitable for both single part and quantity production. The length of strokes is adjustable in operation. The controls are arranged on one side of the machine.

Shaping length
Shaping width
Number of speeds
Number of up-and-down strokes per minute
Maximum pulling power
Motor output

181 Circular Saw P 27

A cold sawing machine with hydraulic feed for cutting of bar stock, suitable for medium size and large shops.

Maximum diameter of stock Speed of saw blade

270 mm 5,5-13 r. p. m.

182 Circular Saw H 350

The machine serves for cutting of bar stock. It is suitable for small and medium size shops. Hydraulic feed of the saw blade and clamping of the stock.



630 mm 720 mm 8 11—125 900 kg 5,5 kW

Maximum diameter of stock 115 mm Speed of saw blade 10-14-18-26 **r**. p. m. Motor output 3 kW

183 Side Milling Cutter PKM 25

The machine is designed for cutting plates of non-ferrous or light metals. Hydraulic feed and clamping control.

 Maximum diameter of material cut
 250×1 400 mm

 Speed and diameter of saw
 45-225/810 mm

 Infilitie Variable feed
 12,5-630 mm p

 Motor output
 13 kW for copp

45—225/810 mm 12,5—630 mm per minute 13 kW for copper 22 kW for light metals

191 Gap-Frame Eccentric Press LE 100

This new welded type of press is designed for cutting, bending and certain drawing operations in multiple part and quantity production. The press is electropneumatically controlled by means of a segment clutch and means of a segment clutch and

Cutting pressure Throat
Stroke
Surface of table
Number of strokes per
minute
Motor output 100 tons 320 mm 20—120 mm 900×640 mm

55 7 kW

CZECHOSLOVAK HEAVY INDUSTRY scientific and technical monthly for engineering and heavy industry.

STROJEXPORT

STROJEXPORT

192 Gap-Frame Eccentric Press LE 160

The machine is designed for heavy shearing and punching operations as well as light profiling work.

	_			
Maximum pres	sure		160 tons	
Stroke			20-120	mm
Number of str	okes per	minute	45	
Dimensions of	table		1 000 × 705	mm
Motor output			11 kW	



193 Inclinable Eccentric Press LEN 40a

The machine is designed for a variety of cutting and drawing operations by using spring-operated or pneumatic down-holders.

Maximum cutting pressure at the position of	!
crank 30° above the bottom dead point	40 tons
Stroke	10-100 mm
Number of strokes per minute	110
Dimensions of table	480×640 mm
Motor output	3.7 kW

194 Gap-Frame Eccentric Press LP 20/80-7

The machine is designed for the quantity production of small objects requiring various successive operations, such as various forgings, bulb holders, etc. The maximum number of operations is seven.

Maximum cutting pressure	50 ton
Maximum pulling pressure	10 ton
Number of tools	7
Stroke	140 mm
Number of strokes per minute	50
Motor output	2.2 kW
Maximum width of hand	115 mm

195 Press Brake LO 200 B

42

The machine is intended for simple as well as complex bending and shearing operations on the entire length of the material.

Maximum working pressure Maximum working length	200 tons
Throat	4 250 mm 305 mm
Distance between housings	2 600 mm
Maximum thicknes of sheet metal	12 mm
Number of strokes per minute Mobor output	22
Moor output	15 kW

196 Shearing Crank Press LKO 315

The press is designed for hot or cold shearing of forgings. It is provided with electropneumatic, push-buttom control. A side-press, used for auxiliary operations, is attached to the machine.

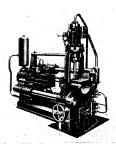
mary operations, is attached to the	machine.
Maximum pressure at end of stroke Clear width below guideways Maximum distance, ram to table Drophole in table Number of strokes per minute Output of main motor	315 tons 1 250 mm 710 mm 400×900 m 30

STROJEXPORT

197 Plastic Moulding Press LTR 1245

This injection type press is designed for processing polysterenes, polyamides, acetates and other thermoplastics. It is suitable for small and medium sized products.

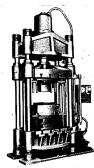
Maximum weight of material
moulded per shot
Number of shots per hour
Specific pressure
Force for closing of mould



198 Semi-Automatic Thermoplastic Moulding Press CSB 500, 50-2

The machine is designed for semi-automatic injection processing of polysterenes, polyamdies, acetates and other thermoplastics. It is suitable for moulding of larger products, up to 1 kg in weight.

Number of shots per hour	90
Melting capacity of 1 chamber hour	45 kg per hour
Force for closing of mould Output of electric motor	500 tons 24 kW



199 Semi-Automatic Thermoplastic Moulding Press CBJ 500

35 grammes 180—300 360 kg/sq. cm 12 tons

The machine is used for semi-automatic processing of bakelite, carbamides and resins. It is suitable for large size products.

Maximum surface of flat bakelite moulded products	2 000 sq. cm.
Maximum surface of deep bakelite	
moulded products	1 000 sq. cm.
Pressing force	500 tons
Distance between platens	1 030 mm
Pressure with standard plunger	400 atm.
Output of pump at 400 atm.	10 litres per minut
	7 kW
Motor output	1 17 44

200 Cold Flow Hydraulic Press CZR 600-1

The press is especially designed for making of cavities in moulds and dies by pressing the presser foot in steel, and similar operations requiring high pressing force and accurate piston guiding.

Maximum pressing force	600 to
Withdrawing force	12 to
Stroke	125 m
Distance between housings	300 m

STROJEXPORT

Pressure Die-Casting Machine CLP 408-2

A universal machine for working up all zinc, aluminium and copper alloys. The design of the machine is simple, accessible and easy to control.

Maximum weight of the casting of Zn and Cu alloys Maximum area of castings in the parting line of the die Average production rate in 8 hours Die-closing force

60—80 sq. cm 1 200—1 400 shots 39.6 tons

0,4 kg

This machine of proven design, provided with a cold pressure chamber is suitable for the manufacture of various larger parts required by the electro-engineering, motor-cycle and other industries, such as rotors of blowers, impellers, crankcase covers, typewritter frames, etc.

Pressure-Die Casting Machine CLP 2255

Maximum weight of Cu or Zn alloy casting 13 kg
Maximum area of casting in parting line
of die
Die-closing force
Pressure applied to metal
Average production rate in 8 hours

100-61
400-61

400—900 sq. cm 220 tons 10—55 tons 400—600 shots

Hydraulic Assembly Shop Press CDC 30

The machine is a universal and highly efficient press suitable for straigtening and bending of machinery parts, pressing of pins and bushes, straightening of welded parts, etc.

Maximum pressure Opening force Stroke of ram Throat Dimensions of table Motor output

30 tons 5,7 tons 250 mm 300 mm 1 500×350 mm 1,5 kW

Forging Crank Press LKM 1600

A new vertical, welded type of press with adjustable table and electropneumatic control. The press is designed for the quantity production of high-precision parts-semi-products for motor cars, tractors, aircraft, etc. It is suitable for steel, non-ferrous or light metals.

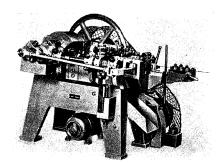
Maximum pressure at end of stroke Stroke
Number of strokes per minute
Clear width below guideways
Dimensions of table
Motor output

1 600 tons 300 mm 60 950 mm 940×1 200 mm 82 kW

205 Toggle Stamping Press LLH 1000/90

The press is designed for heavy duty stamping and punching operations. The ram is balanced by means of the pneumatic balancing assembly. The segment clutch is compressed air controlled.

Maximum pressing force Stroke of ram Number of strokes per minute Clear width below guideways Output of main motor



High-Speed Wire Nail Machine LHA 110 221

The machine is used for the manufacture of all kinds of nails. Its outstanding feature is its high operating efficiency.

Diameter of wire Length of nail Output per hour Motor output

2.2—3.8 mm 13—110 mm 175 kg. dia. 3.5×110 3 kW

Automatic Swaging Machine KRA 8

This new, fully automatic machine is designed for cold swaging. It is suitable for gauging and stepping of solid and tubular material with utmost accuracy and fine surface polish.

The operation is fast, without wastage in material.

Maximum diameter of solid material Maximum diameter of tube Length of the working cycle Maximum length of workpiece Number of strokes per second Motor output

8 mm 16 mm 9.8—14.8—21.8—32.8 seconds 150 mm 48 2,2+0,9 kW

232 Swaging Machine KR 16

This machine is similar to the KRA 8 automatic swaging machine. It is not, however, automatic. It serves for swaging under cold or hot treatment. This type of machining belongs to the most economic and fastest methods.

Maximum diameter of bars 16-20 mm Maximum diameter of tubes Maximum length of workpiece for 1

operation Motor output

7,5 kW



44

STROJEXPORT

Universal Automatic Coil Spring Manufacturing Machine 241 AU 1

Diameter of wire
Maximum uncoiled length of
spring with automatic cutting
Output
Minimum diameter of spring
Maximum diameter of spring
Motor output

0,1-1 mm

5 000 mm 180 springs per minute 1 mm 22 mm 0,68 kW

Universal Automatic Coil Spring Manufacturing Machine 242 $\mathbf{A}\mathbf{U}$ 3

The machine is suitable for the manufacture of pressure coil springs, pressure coil springs with ends pressed plane, tension coil springs, pressure-tension coil springs, single and double bevel springs, springs of special shapes, bowden cables and rings.

Diameter of wire
Maximum uncoiled length of spring
with automatic cutting
Maximum output
Minimum diameter of spring
Maximum diameter of spring
Motor output

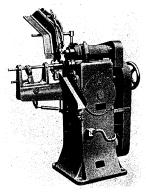
0,8—3 mm 10 000 mm 120 pces. per minute 6 mm 50 mm 2,5 kW

Semi-automatic Pipe 251 Threading Machine ZST 17

Special machine for machining and threading of pipes, collars, nipples, and Graelius rods with sharp, flat, L. H. and R. H. threads. The machine can be fitted with a charging attachment. ted with a charging attachment.

Minimum and maximum external diameter of pipe Minimum length of pipe 1 400 mm chucked in both chucks Maximum length of thread 135 mm Number of threads 2-11 7,5 kW

Output of main motor



Automatic Nipple Threading Machine 77046 261

This machine is used for automatic and simultaneous cutting of L. H. and R. H. threads on radiator nipples by means of tangential tools. The nipples are put into a bin, and the machined nipples are dropped into a belief into a basket.

> Nipple Material Output

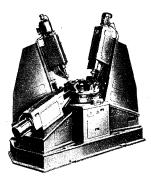
46

G ¼" tempered pig iron 2000 pces. per 8 hours 10 kW

271 Heating Platen Drilling Machine 77043

This building block type machine is used for drilling holes, 20 mm in dia and up to 2800 mm in depth, in heating platens. Six holes are simultaneously drilled. The working crips is submarts. ing cycle is automatic.

Length of bed 6 000 mm Movement of headstock 2 800 mm Dimensions of table 6 200×3 000 mm 20 kW Overall input



Circular Shears for Cutting Sheet Metal NOT 100/3 282

The machine is designed for cutting of irregular edges of castings, such as mudguards, parts of motor bodies, etc. It is suitable for shearing of plates of various shape from sheet metal.

Cutting length Maximum plate thickness Speed Motor output

1 000 mm 3 mm 2,7—6,5 metres per minute 2,2 kW

Combined Power Shears with Punching Press NUD IV 283

The machine is designed for cutting of plates, various sections and punching.

Maximum plate thickness
Maximum round stock thickness
Maximum angle iron thickness
Maximum diameter of holes in sheet metal
Number of strokes per minute
Motor output

20 mm 50 mm 120×120×13 mm 30 mm 5,5 kW

Universal Power Shears NPM

This small machine, which can be fitted to the working table, is suitable for cutting sheets, flat iron, squares, angles and T sections.

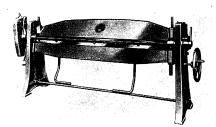
Maximum sheet thickness Maximum thickness of flat stock Maximum diameter of round stock 10 mm 10 mm 12 mm 25 mm 25×25 mm 60/8 mm 24 1,45 kW Squares Angles and T sections Number of strokes per minute Motor output

Are you interested in Czechoslovak products? CZECHOSLOVAK FOR-EIGN TRADE, a periodical of the Chamber of Commerce of Czecho-slovakia, regularly contains reports on traditional export articles as well as novelties of the Czechoslovak industrial production.

STROJEXPORT

291 Bending and Rounding Machine XON 100/1, hand-operated

This machine is well suited for small workshops. It bends sheets up to 1 mm in thickness an 1 metre in width.



292 Bending Machine XOM 300/3.5

This machine is well suited for small workshops. It bends sheets up to 1 mm in thickness and 1 metre in width.

Working length	3 000	mm
Maximum thickness of sheet of a tensile strength		
of 40 kg per sq. mm	3.5	mm
Pipe bends up to maximum diameter	300	mm
Maximum stroke of unner hending cheek	150	mm

293 Pipe Bending Machine ROH 110

The machine serves for cold bending of steel pipes (or pipes made of other materials) by means of the bending die, arbor and guiding trough. The machine is welded of steel sheets, and offers a neat and pleasing appearance.

appearance.
The drive is effected by means of a flange type electric motor over a planet gearbox, bevel gears and two pairs of forks, and actuates the bending table. The design of the machine is based upon the latest research, and provides economic operation.

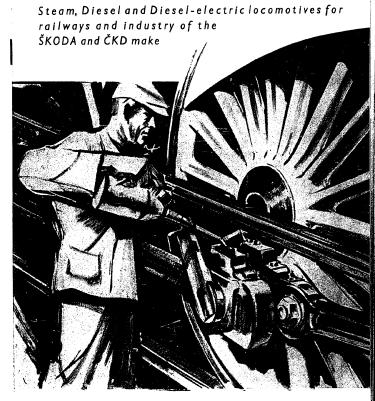
110 mm
6 000 mm
108/4,5 mm
330 mm
7.5 kW
6 sec.

294 Thread Stamping Machine XVZ

The machine is intended for thread stamping in sheet caps, flanging of plates, trimming of castings and the manufacture of bulb holders, screw bulb sockets, etc. All operations are fully automatic.

Diameters		15-120 mm
Length of thread		55 mm
Maximum plate thickness		0,8 mm
Motor output	•	1,1 kW

LOCOMOTIVE



TATRA passenger and goods waggons well proven products of Czechoslovak railway engineering

Supplied by:

STROJEXPORT

PRAHA CZECHOSLOVAKIA

48

CZECHOSLOVAKIA

the country of international tourism the country of world-famous spas

Welcomes Her Visitors



Czechoslovak Travel Bureau, Na příkopě 18, Praha 3, telephone 223440 — Sedlárská 1, Bratislava, telephone 22011

Cable Address: Čedok Praha Čedok Bratislava

offers conducted tours through Czechoslovakia and arranges for rest and cure in spas. All services rendered to tourists

You may combine your business trip with a sightseeing tour through our country or with a cure in one of our spas

Apply to us for further information! We shall be glad to give you any advice you may need!

295 Hydraulic Pipe Bending Machine HTO 3

This highly efficient machine is suitable for cold bending of pipes. It is easy to operate and recommended wherever pipes have to be bent quickly and neatly without sand filling. Also very short pipes are bent on this machine.

311 Pneumatic Hammer KB 400

This pneumatic hammer is suitable for the most varied forging work such as punching, cutting, upsetting, drawing and forging of sections.

Weight of hammer
Weight of anvil block
Maximum diameter of forged material
Number of strokes per minute
Ram stroke
Power of blow
Work of blow
Electric motor output

400 kg
7000 mm
7000 mm
2 0000 kgm/sec.
950 mkg
950 mkg
40 H. P.

312 Spring Hammer KAH 70

This hammer is designed for all forging operations. The force of blow is hydraulically controlled. The motor has an output of $12\ H.\ P.$

321 Broken Tool Extractor IJV 1

This electric spark erosion drill serves for the removal of broken tools and drilling of less accurate holes in hardened and tough materials.

Range of machined diameters Dimensions of broken tool extractor without taper Clamping arrangement Maximum operating current Weight 2-30 mm

90×260 mm No. 2 Morse taper 150 A 3,5 kg

322 Broken Tool Extractor IJV 2

This electric spark erosion drill serves for the removal of broken tools and drilling of less accurate holes in hardened and tough materials from 2 to 40 mm dia .and over.

Current source 10, 20, 40, 60, and 90 A Approximate voltage Approximate maximum of removed material 300 tu. mm/min. at 90 A

323 Electric Spark Micro-Perforator VJ-03

Used for making the minutest holes, 0,05 to 0,4 in dia. in hard and tough materials and cemented carbides.

Diameter of table	100	mm
Vertical movement of table	40	mm
Horizontal movement of table	40×40	mm
Maximum height of machined part	40	mm
D. c. source	50-90	v
Innut	0.4	1-337



Electric Spark Perforator, Small Type VJ 3

Used for making small holes, 0.4 to 4 mm in dia. and for the manufacture of fine moulding tools of cemented carbides, tool steels or other hard and tough materials.

Automatic adjustment of the working electrode by means of cross slide rests. Automatic process regulation.

Electric Spark Perforator, Medium Type VJ 15

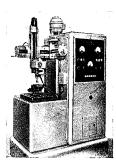
Used for the manufacture of small moulding tools. Recommended maximum machined area abt. 1500—2000 sq. mm. Accurate adjustment of the tool electrode by means of cross slide rests. 10 machining steps. Automatic process regulation.

326 Electric Spark Erosion Die Cutter VJK 1

Used for the manufacture of medium and large size moulding tools of cemented carbides and other materials.

Maximum machined surface Vertical movement of table Horizontal movement of table Automatic spindle stroke Maximum dimensions of workpiece

10 000 sq. mm 250 mm 180×180 mm 350×300×250 mm



Electric Spark Thread Cutter ZJ 1

Used for making threads in holes of cemented carbides and other hard and tough materials.

Approximate working range from 2 mm (M2) to 14 mm (M14), 4 machining steps. Automatic process regulation.

Electric Spark Inscribing Needle IJV 3

Used for making inscriptions in metal objects. The needle leaves a permanent mark. Approximate output $0.5\ \mathrm{m/min}$.

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 production of fine tools, various shaped holes and cavities of the hardest conductive and non-conductive materials. Table type. Cross slide rests.

Ultrasonic Punching Machine VU 15

The machine is used for machining hard metals, ceramics, glass and various minerals in fine mechanics and optics.

STROJEXPORT

331 Anode-Mechanical Electric Spark Erosion Saw PA 6 for cutting

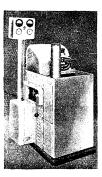
of small tools and objects of hard and tough materials, such as plates of cemented carbides, chucks, etc.
4 working steps. Automatic process regulation.

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

for cutting of hard and tough materials, carbides and special alloys, 30 mm, in dia.

Maximum diameter of cutting disc Capacity of operating liquid tank Maximum working curent (at 26 V)

300 mm 70 litres 40 A 2 kW



333 Anode-Mechanical Electric Spark Erosion Saw for Stocked Sections PA 70

for cutting of hard and tough materials up to 70 mm in dia. Automatic process and working cycle regulation. Adjustable stop and number of cut pieces.

334 Anode-Mechanical Electric Spark Erosion Saw for Medium Sections PA 150

for cutting of hard and tough materials up to 150 mm in dia. Automatic process regulation.

335 Ultrasonic Drilling Machine

Is used for the manufacture of small dies, drawing dies, irregular holes and recesses and punching holes. Following material is suitable for machining: Sintered carbides, steel alloys, glass, ceramic material, germanium, saphire, diamonds, etc.

Average accuracy approx. 0.05 mm Roughness of the surface approx. 1 11 Material for grinding: Boroncarbides of different degrees of

hardness. Maintenance and operation is simple and inexpensive.

The apparatus is fed from the mains

Output of the generator Dimensions

1 kW, frequency used 25 kc/s 780×830×1 960 mm

STROJEXPORT

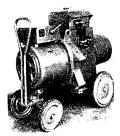
TRIODYN K-320 Mobile Arc 341 Welder

Rated motor capacity r, p. m. Fixed rated voltage 2-pole welding dynamo current range Weight

14 kW 2 900 220, 380, 500 V

30 A/15V-320 A/30 V 314 kg





PRAGA 500 Travelling Arc 342Welder

Rated motor capacity r.p. m. Fixed rated voltage 4-pole welding dynamo current range Weight

23 kW 1 450 per minute 380-500 V

70 A/15V-500 A/35 V 700 kg



PRAGA 320 DG Mobile Diesel Electric Welding Set

Rated output of engine Rated speed 4-pole welding dynamo current range Weight 27 H. P. 1 500 per minute 50 A 15 V-320 A/30 V 1 620 kg

TR-260 a. c. Mobile Arc Welding Transformer 344

Rated primary voltage Rated input Range of welding current Weight

190, 220, 380, 440 V 17.1 kVA 30 A/15 V-260 A/30 V 135 kg

TS-350 a. c. Mobile Arc Welding Transformer 345

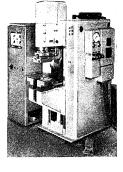
Rated primary voltage Rated input Range of welding current Weight

380 V 29,8 kVA 50 A/25 V-430 A/45 V 280 kg

The periodical CZECHOSLOVAK FOREIGN TRADE supplies informa-Ine periodical CLECHOSLOVAR FUREIGN IRADE supplies informa-tion 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 illus-trated periodical, issued six times annually in English, German, Russian, Spanish, Portuguese and French.

346 V Vús 250-3 Welding Press

Rated input at 50 % load 1.000 kVA 4,15—12 V Maximum input Welding force continuously regulated 500-3 000 kg Pressing force continuously regulated 500—3 000 kg Forging force continuously regulated 500-3 000 kg Maximum throat height Minimum throat height 85 mm 300 mm Maximum throat depth Number of regulation steps 20 Suitable for resistance and flash welding Cross-section of mild steel — resistance welding 600 sq. mm



VÚS 60/120 Suspended Seam Welder

Input Maximum welding pressure MAXIMUM WEAKING Speed
Pulleys
Input of motor of the pump
Input of the driving motor
Welding sheet thickness

60—120 kVA 0,5—5,5 metres per minute 70—120 mm in dia 250 watt 125 watt 3×1 mm 400 kg

Pipe Cutting Machines

a) Hand operated VÚS RP 1

Cross-section of mild steel — flash welding

apparatus for cutting vertical circular holes on pipes and cylindrical vessels.

The apparatus cuts holes 60 to 600 mm in dia in any position. With regard to the diameter of the pipe or vessel, holes up to 2 /₃ of the pipe or vessel may be cut, E. g. a hole, 200 mm in dia may be cut in a 300 mm pipe.

1 200 sq. mm

b) VÚS RP 2:

Hand operated apparatus for cutting circular holes in cylindrical and other surfaces.

Cylindrical holes may be cut up to 300 mm in dia. at the maximum angle of inclination of 45 $^{\circ}$. With chamfered cuts, holes parallel to the axis may be cut.

c) Hand operated VÚS RP 3 apparatus: used for cutting of passes at the pipe ends.

1. chamfered or plane cuts are made 1. cnamered or plain cuts are made
2. round cuts
3. vertical or chamfered passes of 2 pipes
Ad 1. By means of a straight plate inclined to
the required angle
Ad 2. Without template
Ad 3. By means of a part of the main pipe or
another part of the required shape

CZECHOSLOVAK HEAVY INDUSTRY scientific and technical monthly for engineering and heavy industry.

STROJEXPORT

d) VÚS RP 4 Hand operated apparatus: used for vertical or chamfer cutting of cylindrical and other nongeometrical surfaces.

The apparatus operates in any position, at the angle inclination of $90-45^\circ$. Maximum pipe diameter 300 mm. For larger diameters the arms of the mechanism must be extended.

e) VÚS RP 5 Mobile hand operated machine: for circular pipe cutting.

The machine consists of a trolley attached to the pipe by means of a chain. It also uses two burners which may be tilted into the required position. The pipe remains solid, the cut is perfectly clean.

 $E.\ g.:\ A\ pipe\ 300\ mm$ in dia, and 10 mm thick, may be cut in three minutes.

Minimum and maximum pipe diameter: 100/600 mm.

349 VÚSA Universal Automatic Welding Composition Welder

Plate thickness up to 1,5 mm.

Electrode diameter Current range Maximum welding specd Weight including wire and welding composition

1.5—5 mm 200—1500 A 90 metres per hour

Pipes may be welded from 500 mm in dia., and after adjustment from $400\,$ mm in dia. The welder may operate with or without arc regulation.

350 VÚS B 1,5 Miniature Spot Welder

Maximum input 1.5 kVA. maximum pressing force 20 kg, plate thickness 0.5 mm, foot pedal operated.

The pressing force is not dependent on the compressed air oscilla-Electronic welding current control.

351 VÚS KV Adjustable Working Table

Maximum length maximum dia maximum weight

2 500 mm 600 mm 4 000 kg

ERO 320 electronic regulation control. The number of revolutions may be increased up to 3000 r. p. m.

CZECHOSLOVAK GLASS REVIEW a monthly of the Czechoslovak Glass-CZECHOSLOVAN GLASS REVIEW a monthly of the Ozernoslovik Glass-and Ceramic Industry brings regularly to persons interested in this line information on the production and delivery possibilities of Czecho-slovak Glass- and Ceramic works.

352 ARGON/ARC T 350 Mobile Welding Set

The welder is designed for welding of aluminium, magnesium, copper, stainless steels, molybdenum, everdur, nickel, bronze and their alloys by means of the electric arc and non-consumable tungsten electrode, in a zone shielded by a covering of the inert gas of argon.

It consists of

- a) the TS-350 welding transformer supplying the required welding current,
- b) the capacitor power-supply unit stabilizing the oscillations caused by d. c. so that the arc is maintained,
- c) the control panel which also accommodates the high-frequency ionization unit designed for striking and stabil-izing the arc during operation,
- d) the tungsten electrode handle.

Fixed rated voltage Fixed rated voltage Transformer output Welding current Consumption rate of argon Total capacity of the capacitor power supply Jonization unit capacity Weight

2×380 V, 50 c/s 42 kVA 60-420 A 4.5-18 litres/min.

0,24 F 5 000 V, 2 Mc 774 kg

353 **TAU 40**

Automatic Butt Welder suitable for welding fuil cross section steels and section materials.

Rated transformer capacity Primary voltage Welding capacity Approximate net weight

80 kVA 380 V, 50 c/s 2000 sq. mm 4 tons

TAU 80

Automatic Butt Welder suitable for welding full cross section steels and section materials.

Rated transformer capacity Primary voltage Welding capacity Approximate net weight

TP 60

Semi-Automatic Butt Welder suitable for welding full cross section steels and section materials.

Rated trasformer capacity
Primary voltage
Welding capacity
Clamping pressure
Upsetting pressure
Approximate net weight
300 kg
600 kg
7,7 tons

Semi-automatic Seam Welder suitable for welding of steel plates, with electronic H. T. induction and circuit switch breaker.

Rated trasformer capacity Primary voltage Opening of arms

60 kVA 380 V, 50 c/s

55

STROJEXPORT

1 000 mm

SPK 600

Semi-automatic Welding Composition Welder with constant speed of wire feed.

Type of welders with nose, port-

Welding current:

180-650 A d. c. a. c.

140-650 A 3×380 V

Primary voltage Dia, of welding wire 1,2 mm. 1,6 mm, 2 mm

feeding mechanism, holder with hose, connecting cable.

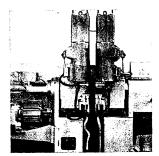
STK 1000

Universal Automatic Welding Composition Welder with constant speed of wire feed and common drive of wire feed and travelling mechanism.

Type of welders: portable portable travelling Welding current:

d. c. a. c. Rated voltage of contactor box: Dia. of welding wire

1,6 mm. 2 mm 3 mm. 4 mm. 5 mm



354 Automatic Welding Set with Amplidyne Arc Regulation

This type of regulation is simple and reliable. The ampliagnear regulation is similar to the regulation by means of the Ward Leonard set. Only the W-L generator has been replaced. The welding wire must by fed to the arc at a speed corresponding to the melting speed. The arc voltage should be maintained at a constant level \pm 2 V within the range of 25–50 volts and at a current of 200 to 2000 A. Welding wire diameter 3 to 8 mm. The corresponding speed of the welding wire feed is 0.5 to 2.5 mm per minute. The required ratio is 1:5.

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

STROJEXPORT

Argon Gas Welding Set T 010 355

The exhibited welder is designed for welding of thin aluminium con-The exhibited welder is designed for welding of thin aluminium conductors required for the manufacture of electric machines. The set consists of a case, 300×425×315 mm in size and a miniature aircooled tungsten electrode holder. The set has a wide welding current range from 2,5 to 12,5 A, and can be connected to 220 V, 50 c/s mains. Weight without argon gas cylinder 25 kg. In view of its outstanding features the set is a unique type of welder.

Propane and butane Soldering and Brazing Set

The set is used for propane or butane soldering or brazing under 0-1.5 atm. pressure, reduced in steel cylinders.

357 Upsetting Flame Welding Machine

The machine is used for welding of circular bars up to 3000 mm/sq. mm in cross-section. It is designed for welding wagon connecting



Saw Blade Hardening Equipment:

Generator and automatic hardening machine, type GV 21 and EKP 3.

المانية المانية (المانية المانية). Universal Semi-Automatic Hardening Machine for Induc-372 tion Heating EKS-30

Intended for single-piece as well as repetition hardening of small machinery parts up to a weight of $20\ kg$.

Maximum clamping diameter: Maximum clamping length between

Operating voltage: Mains voltage: Input:

300 mm

600 mm 24 V 380/220 V, 50 c/s 0,75 kW

373 Continuous Dielectric Drying Oven EDV 1

with GU 15 generator.

Dimensions of the drying oven (length \times width) 5 000 \times 1 000 mm

Designed for drying of non-conductive materials (e. g. textiles, felt discs for engineering industry, etc.).

374 Bakelite Moulding Equipment: CU 3a generator

Designed for preheating of bakelite tablets, drying, etc.

Maximum H. F. output: Thermal H. F. output: Input at full load: Heating area: Maximum weight of mould

1,5 kW 21,5 Kca1/min. 3,2 kW max. 250×400 mm 1,5 kg

LB 150 Bakelite Moulding Press

375 Wood Pressing Equipment GU 7 generator

Intended for gluing of simple shaped wooden parts under dielectric heat treatment (staves).

Surface of the platens: Overall pressure: Input: 600×600 mm 100 tons 10 kW (including generator)

376 PVC Foot-operated Welding Set

Including type EDS-4 Output Working surface Welding pressure Foot-operated generator 500 V 15 sq. cm. 3/7 kg per sq. cm.

377 Hydraulic Press used for gluing of laminated moulded wood

The inserted material is pressed and simultaneously heated by H. F. heat, whereby glue hardening may be shortened to a few minutes as against the normal method by means of heated platens which lasts a few hours. The power source is a GU 7 generator of 4 kW output.

378 HF Thermoplastic Foil Welders EDS 4

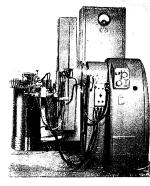
The set is suitable for H. F. welding of containers and various fancy articles made of PVC foils. Welding period 1-4 seconds. The power source is built inside the welder.

CZECHOSLOVAK GLASS REVIEW a monthly of the Czechoslovak Glassand Ceramic Industry brings regularly to persons interested in this line information on the production and delivery possibilities of Czechoslovak Glass- and Ceramic works.

379 Flame Hardening Machine

The machine serves for flame hardening of parts maximum 900 mm in length, and spur gears of higher modules. The equipment consists of three parts: the machine itself, electric assembly in case and accessories.

Feed of burner 60—720 mm
Table tilt 90°
Electric motor: r. p. m.1 400/2 800
output 0,4/0.5 kW



380 H. F. Through Drying Plant

The heat generates by dielectric losses in the processed material. The source of current of a frequency of 13 Mcs is the GU 15 type electronic generator. Application: drying of various materials, such as yarn, felt, casting cores, etc. The drying period is shortened to about 1—2 p. c. of the time normally required for drying.

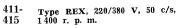
392 -

391- Type OR 220/380 V, 380/660 V, 50 c/s, 1 400 r. p. m.

400 Three-Phase Squirrel-Cage Induction Motors semi-enclosed design.

401-410 Type OR 220/380 V, 380/660 V, 50 c/s, 1 400 r. p. m.

Three-Phase Squirrel-Cage Induction Motors fully enclosed design.



Single-Phase Squirrel-Cage Induction Motors with automatic switching of the auxiliary phase

416 Type 1H9bV6, 28 kW, 220/380 V, 50 c/s, 960 r. p. m.

Three-Phase Induction Motor with slip ring rotor, flangemounted, with free shaft-end, drip-proof design.





STROJEXPORT

STROJEXPORT

- Type 1K92Z/4, 30 kW, 380 V, 50 c/s, 1420 r. p. m. Three-Phase Induction Motor with slip ring rotor, flange-mounted, with free shaft-end, explosion-proof design including explosion-proof contactor switch and starter.
- 418 Type $K51 \times 4$, 2,5 kW, 380 V, 50 c/s, 1420 r. p. m. Three-Phase Squirrel-Cage Induction Motor flange-mounted, with free shaft-end, explosion-proof design including explosion proof contactor switch.
- 419 Explosion-Proof Gutter Fan A special fan for airing of gas infested areas.
- 420 Type 2RP63S/6, 6 kW, 40 %, 220/380 V, 50 c/s, 960 r. p. m. Three-Phase Induction Motor with slip ring rotor, without brush lifting device, flange-mounted, with free shaft-end including controller and re-
- 421 Type M 11-40Z/4, 125 kW, 380 V, 50 c/s, 1400 r. p. m. Three-Phase Induction Motor with slip ring rotor, brush lifting device and switch. The motor can be started only with the brush lifting device in its OFF-position.
- Type A9b/4, 32 kW, 400/231 V, 50 c/s, 1500 r. p. m. 422 Three-Phase Synchronous Motor semi-enclosed, flange-mounted design with free shaft-end including derivation regulator.
- Type 1H46-42/6, 220~kVA, 400/231~V, 50~c/s, 1000~r. p. m. 423 Three-Phase Synchronous Motor semi-enclosed, flange-mounted design with free shaft-end including shunt regulator.

Three-Phase Rotor Switches

The new SOR oil switches are made in five types. The units are of similar design and for various outputs. The switch consists of three main parts, i. e. a contactor, resistor and vessel with cover.

The exhibited line of switches is designed for motors of 14, 28, 55,

CZECHOSLOVAK HEAVY INDUSTRY scientific and technical monthly for engineering and heavy industry.

Multiple Reverse Induction Motor

For various operations normal induction motors for frequent reversing are required. This requires perfect motor insulation (high currents and temperatures).

The exhibited normal type of motor, provided with class A insulation, is suitable for frequent reverses. It stands 1000 reverses per hour at idle run.

441 442 JM Motor Protective Switch

(a three-phase protective switch used for small motors) these apparatus should be fitted with other instruments on the control panel.

443 OVMC Temax Air-Breaker (designed for motor protection).

444 BMT2M Three-phase Brake Magnet

(used for brake controlof cranes)

445 Type DO53, DO Deion Air-Breakers 446

for switchboard mounting (designed for the protection of motors against overload). (These apparatus serve for electric motor control, and should be fitted to one panel.)

Type VJ25L-03, VJ25L-04, VJ25L-01, V25L-01 Drum Switches

in cast-iron cabinet (used for switching of electric motors).

448-Type JDO 21 JDO 21 Automatic Base Switches 452

including terminal box cover (for switching of electric motors).

Type VS20-003 Air Contactor, Drip-proof Design

(used for electric motor control).

Three-Pole Air Blast Circuit Breaker

mounted to the toggle operating mechanism (for the protection of motors against overload).

STROJEXPORT

455 Three-Pole Air Blast Circuit Breaker

in cast-iron cabinet (for the protection of motors against overload)

- 456 Explosion-proof Circuit Breaker on stand, type JSJ063
- 457 Explosion-proof Starter
- 458 NSJ 13 Explosion-proof Circuit Breaker
- 459 ELDRO DO-75-50, 380 V, 50 c/s Electrohydraulic Apparatus
- 460 Shunt Regulator for alternator, type A94
- 461 Shunt Regulator for alternator, type 1 H 46-42/6
- 462 Type FIS-GP Steam Turbine Generator
- 463 Three-Phase Commutator Shunting Motor

The motor is used wherever permanent regulation of speed in a wide range is required. It is manufactured for a mains voltage of 550 V. The motors are adapted to the mains frequency within a range of $40-60~\mathrm{c/s}$ per second.

Rotor Squirrel Cage Measuring Set

The measuring set provides a fast and cheap method of testing rotor squirrel cages prior to assembly or machining. It also ensures a fast control of the conductivity of squirrel cage rotor rods. The set is portable, of building block type, and the collectors may be tested on a lathe. Rotor squirrel cages with both open or closed grooves may be tested Principal features:

- 1. Fast, simple and reliable control
- The test may be carried out on a lathe or balancing machine, and requires no special equipment
 Rotors may be controlled prior to assembly and finishing operations
- 4. The set may be used for all rotor dimensions
- 5. An accurate image of the squirrel cage is obtained on the screen of the oscillograph
- 6. Snapshots of the oscillograph may be taken and thus a permanent record obtained

CZECHOSLOVAK GLASS REVIEW a monthly of the Czechoslovak Glass-and Ceramic Industry brings regularly to persons interested in this line information on the production and delivery possibilities of Czecho-slovak Glass- and Ceramic works.

ŠZ R Engine with waste heat utilization equipment

The equipment for the utilization of waste heat of crude oil engines increases economy in operating these units. By means of this equipment the heat generated by crude oil engines can be utilized up to 75%, while the capacity of the crude oil engine itself is 35% only. 75%, while the capacity of the crude oil engine itself is 35% only. The heat obtained by steam can be used for technological processes, heating or service water heating (e. g. on ships). The equipment is suitable for medium-sized and large units; for technological reasons, however, the equipment has been tested on a small high-speed 6 R 140 generator. Due to the researches of the Thermal Technique Research Institute, plans have been drawn for the erection of a thermal plant operating on this principle. Use is made of the engine pressure water cooling system which permits water to be heated to a temperature exceeding 100 °C, and reduces the specific fuel consumption at an overall higher temperature of the the specific fuel consumption at an overall higher temperature of the engine.

The heat developed by exhaust gases is transmitted to the hot engine water by means of the surface changer. Due to the expansion of pressure water in the evaporator, water partially evaporates, and the rest cools down to a temperature which corresponds to the pressure in the vessel. The circulation pump returns cool water to the engine. The produced low-pressure steam condenses in the apparatus or auxiliary condenser, and the condensate is automatically fed into the evaporator.

The fully automatic equipment of the apparatus does not require special maintenance. In view of increased power, fuel economy and prolonged life of the engine full benefit is enjoyed from this invest-

- 491 Railway Lighting Dynamo and Era Regulator Type ODF 24 V, 1 kW492
- Layout of a locomotive with a complete set of lamps including bulbs 493 494
- 495 Locomotive with mounted lamps
- 496 Accumulator battery used for railway coach lighting
- **501** Three-Phase Oil Immersed Transformer, 285/10, 200 MVA
- 502 Five Panel Switchboard with accessories
- 503 R. F. Telecommunication Equipment Cabinet

Are you interested in Czechoslovak products? CZECHOSLOVAK FOR-EIGN TRADE, a periodical of the Chamber of Commerce of Czecho-slovakia, regularly contains reports on traditional export articles as well as novelties of the Czechoslovak industrial production.

62

STROJEXPORT

						_
E04	TOMOR	c	200/11-200	A	Single-Pole	Base

505 FTCS 10-200/11-200 A Single-Pole Fuse Base

506 FTCS 22-200/11-200 A Single-Pole Base

507 FTCA 6-15/11 15 A Fuse Cartridge

508 FTCA 10-2/11 2 A Cartridge

509 FTCA 22-10/11 10 A Fuse Cartridge

510 Voltage Transformer

Type NV 101 dry, two-pole insulated transformer, ratio 1 000/10 V, insulating voltage 1 kW, testing voltage 10 kW, rated output 60 VA, 1 % class of accuracy.

511 Voltage Transformer

Type NV 184 dry, two-pol@ insulated transformer, insulating voltage 3 kW, testing voltage 18 kW, ratio $3\,000/110\text{-}100$ V, 60 VA, 0,5 % class of accuracy.

512 Voltage Transformer

Type NV 334 dry, two-pole insulated transformer, insulating voltage 3 kW, testing voltage 18 kW, ratio 3000/110-100 V, 60 VA, 1% class of accuracy.

513 Voltage Transformer

Type NV 444 dry, two-pole insulated transformer, insulating voltage 10 kW, testing voltage 42 kW, ratio 10000/110-100 V, 120 VA, 1% class of accuracy.

514 Current Transformer

NAD 42b dry bushing type transformer, insulating voltage 15 kW, testing voltage 44 kW, ratio 100/5/5 A, rated output 30/30 VA, 1 % class of accuracy.

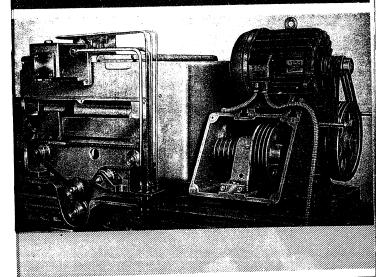
515 Current Transformer

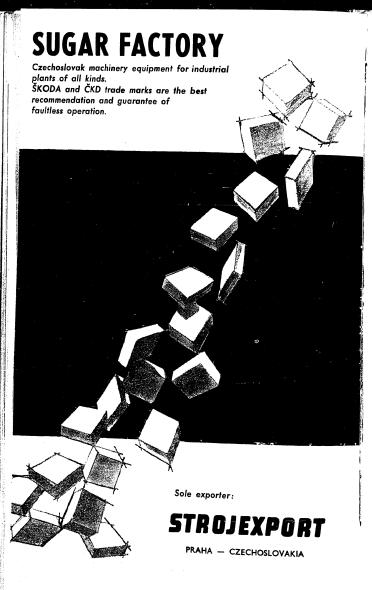
NAD 64 dry bushing type transformer, insulating voltage 22 kW, testing voltage 64 kW, ratio 200/5/5A, 15/30 VA, 0,5. class of accuracy.

KOVOEXPORT, Czechoslovak Export Magazine of the Czechoslovak Light and Precision Engineering Industry.

STROJEXPORT

STROJÍRENSKÁ VÝROBA





516 Current Transformer

NAD 86 a dry bushing type transformer, insulating voltage 35 kW, testing voltage 86 kW, ratio 100/5A, 30 VA, 0,5 class of accuracy.

517 Draw-out Metal Enclosed Switchboard

Draw-out metal enclosed switchboard for high voltages, with CP 205-10/600, 10 kW, 600 A, 200 MVA air-blast circuit breaker.

518 Short Circuit Foolproof Current Transformer

Type NAFD 643.850 compound filled bushing transformer, insulating voltage 22 kV, testing voltage 64 kV, ration 300/5A, rated output 30 VA, $1\,\%$ class of accuracy.

519 Draw-out Metal Enclosed Switchboard

Draw-out metal enclosed switchboard for high voltages, with VO 10/691, 10 kW, 600 A, 150 MVA oil circuit breaker.

520 FTCS 35/200-11 Single-Pole Fuse Base

521 FTCA 35-20/11 Fuse Cartridge, 35 kV, 20 A, 400 MVA

522 CP 205-35/600 Three-Pole Air Blast Circuit Breaker

CP205-35/600 15 kW, 600 A, 200 MVA circuit breaker with WM6 10-12 atm. control valve, mounted to a permanent underbase.

523 CP 605-22/600 Three-Pole Air Blast Circuit Breaker

CP 605-22/600, 22 kV, 600 MVA circuit breaker with MW 6 control valve for 18-20 atm., mounted to a permanent underbase

524 BTB 22/400-34, 22 kV, 400 A, 10 MVA Three-Pole Disconnecting Circuit Breaker.

525 TSPC 22/400-031, 10 kV, 400 A Three-Pole Isolating Switch with accessories.

526 FTGS 6-200/11 Single-Pole Fuse Base

527 FTCS 10-200/11 Single-Pole Fuse Base

528 FTCS 35-200/11 Single-Pole Fuse Base

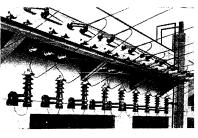
529 FTCB 6-46/11 40A High-Capacity Fuse Cartridge

530	FTCB 10-40/11 40A High-Capacity Fuse Cartridge	547	ODT 10/600 VP+VZ7/89 Disconnecting Switch
531	FTCB 22-40/11 40A High-Capacity Fuse Cartridge	548	ODT 10/1500VP+VZ7/1013 Disconnecting Swit
532	FTCB 35-40/11 40A Fuse Cartridge		RS-6N, 100 MVA Explosion-Proof Case For No. 2 Emergency Degree, with plate closure
533	FTCB 6-60/11 High-Capacity Fuse Cartridge	55 0	VMA Small Volume Oil Circuit Breaker, 100
534	FTCB 10-60/11 High-Capacity Fuse Cartridge	551	
535	FTCB 22-60/11 High-Capacity Fuse Cartridge	551	ST 4/60 Three-Pole Contactor Rated voltage 6 kV Rated current 200 A.
536	FTCB 35-60/11 High-Capacity Fuse Cartridge	571	LV 0.5 Autovalve Lightning Arrester
537	Single-Pole Outdoor Disconnecting Switch	572	LV 0.85 Autovalve Lightning Arrester
	with double knife motion, type TEPD 35/600-11, air blast circuit, 35 kV, 600 A.	573	LV 1.5 Autovalve Lightning Arrester
538	FTTS 22/200-31, 22 kV, 200 A Three-Pole Disconnecting Fuse Base	574	LV 3n Autovalve Lightning Arrester
= 90	20 100 111 00 111 00	575	LV 6n Autovalve Lightning Arrester
539	FTCA 22/20/11, 22 kV, 20A, 400 MVA Fuse Cartridge	576	LV 10n Autovalve Lightning Arrester
540	CPR Three-Pole Air Blast Circuit Breaker with Resistance Extinguisher	577	LV 15n Autovalve Lightning Arrester
	CPR 401.10 600, 10 kV, 600 A, 400 MVA air blast circuit breaker with resistance extinguisher and control valve on underbase.	578	LV 22n Autovalve Lightning Arrester
		579	LV 30n Autovalve Lightning Arrester
541	CP 405-35/1000 Three-Pole Air Blast Circuit Breaker with Resistance Extinguisher	580	LV 35n Autovalve Lightning Arrester
	and control valve.	581	
542	CP 1001-10/2000 Air Blast Circuit Breaker	_	Torok Lightning er
	on underbase	582	
543	CP 1001-22/1000 Three-Pole Air Blast Circuit Breaker		Torok Lightning er
544	SUt 33 40-75 Selenium Rectifier		Torok Lightning
14 5	SUJ 22 48-10 Selenium Rectifier	, Arreste	
46	SUJ 20 24-5 Selenium Rectifier		Torok Lightning

STROJEXPORT

+VZ7/1013 Disconnecting Switch A Explosion-Proof Case gency Degree, with plate closure IV. lume Oil Circuit Breaker, 100 MVA Pole Contactor kV 00 A. ve Lightning Arrester lve Lightning Arrester e Lightning Arrester e Lightning Arrester e Lightning Arrester e Lightning Arrester ve Lightning Arrester ve Lightning Arrester ve Lightning Arrester

35 kV Torok Lightning Arrester



STROJEXPORT

Diesel Generating Set with Skoda 4S 275 Engine and Gene-591

Diesel Generating Set with Škoda 4 S 275 engine and generator. Output 200 kVA (160 kW) 400/231 V, 50 c/s, 500 r. p. m. with switchgear. Consumption 175 gr. \pm 5 %, weight 13, 500 kg. Used as power source for medium sized industrial establishments 500 kg. Used a establishments.

Diesel Generating Set with Škoda 6S 350 Engine and Gene-

Output 550 kVA (440 kW), 400/231 V, 50 c/s, 375 r. p. m., with switchgear. Fuel consumption 170 gr \pm 5%. Weight 28 500 kg. Used as power source for larger industrial establishments.

Škoda, Type 2S 110 Diesel Engine 593

Output 30 H. P., $1\,500$ r. p m., started by hand, consumption 185 gr. \pm 5%. Used for driving of various machinery, such as generators, dynamos, pumps, etc.

Škoda, Type 3S 110 Diesel Engine 594

Output 45 H. P., 1500 r. p. m., pneumatic starting, extended shaft, outer bearing, pulley and radiator on frame. Consumption 185 gr. \pm 5%, weight 815 kg. Used for criving of various receiver. machinery.

škoda, Type 4SB 110 Diesel Engine 595

Output 48 H. P., 1 200 r. p. m., electric starter. Consumption 185 gr. \pm 5 %, weight 1020 kg. For use with 0.5 cu. m. dredgers.

596 5 škoda, Type 68 110 Diesel Engine

68

Output 90 H. P., 1500 r. p. m., electric starter and radiator. Consumption 185 gr ± 5%, weight 1200 kg. Used for driving of generators, dynamos and various machinery equip-

Stationary Diesel Generating Set with Škoda 2 S 110 Engine 597 and Generator.

Started by hand, output 20 kVA (16 kW), 1500 r. p. m., 230/127 V, 50 c/s, radiator on frame, switchgear, weight 1200 kg. Used as power source for smaller industrial establishments.

598 Stationary Diesel Generating Set with Škoda 3 Š 110 Engine

> Pneumatic starting, output 25 kVA (20 kW), $1\,000$ r. p. m., 400/231 V, 50 c/s, radiator on frame, switchgear. Weight 1 470 kg. Used as power source for smaller establishments.

Stationary Diesel Generating Set with Škoda 4S 110 Engine 599 and Generator

Diesel generating set with pneumatic starter and 32 kVA (25 kW) generator, 1000 r. p. m., 400/231 V, 50 c/s, radiator on frame, switchgear. Weight 1710 kg.
Used as power source for smaller establishments.

Stationary Diesel Generating Set with Skoda 6 S 110 Engine 600 and Generator

Output 50 kVA (40 kW), $1\,000$ r. p. m., 400/231 V, 50 c/s, with radiator on frame and switchgear. Weight $2\,400$ kg. Used as power source for medium sized establishments.

Slavia, Type D 12 Diesel Engine 601

Output 12 H. P., 700 r. p. m., fuel consumption 210 gr. \pm 5 %, weight 494 kg. Designed for agricultural purposes. Minimum maintenance.

Slavia, Type D 15 Diesel Engine

Output 15 H. P., 650 r. p. m., fuel consumption 210 gr. \pm 5 %, weight 705 kg. Designed for agricultural purposes. Minimum maintenance.

Škoda, Type 1 S 110 Diesel Engine 603

Output 15 H. P., 1500 r. p. m., started by hand. Fuel consumption 200 gr. \pm 5%, weight 400 kg. Used for agricultural purposes and machinery drive.

Stationary Diesel Generating Set with Škođa 1 S 110 Engine

Started by hand. Output 10 kVA (8 kW), 400/231 V, 50 c/s, radiator and switchgear on common frame, weight 870 kg. Used as power source for smaller establishments.

T 60 3-B ZG 62 Mobile Petrol-Electric Generating Set with Generator

With Tatra petrol engine and 15 kVA (12 kW), 380/20 V, 50 c/s, generator, 1500 r. p. m. Weight 875 kg. used for outdoor assembling jobs, building sites, and the

Slavia, Type D 5 Diesel Engine 606

Diesel engine output 5 H. P., 900 r. p. m., fuel consumption 210 gr. \pm 5%, weight 265 kg. Used in agriculture. Minimum maintenance.

Slavia, Type D 8 Diesel Engine

Diesel engine output 8 H. P., 800 r. p. m., fuel consumption 210 gr. \pm 5 %, weight 355 kg. Used in agriculture. Minimum maintenance.

STROJEXPORT

Slavia, Type 2 S 115 A Diesel Engine

Output 27 H. P., 1500 r. p. m., fuel consumption 205 gr. \pm 5 %, weight 750 kg. Extended shaft, clutch, pulley, electric starter on common frame. Designed for agriculture and industry.

Slavia, Type 1 S 100 A Diesel Engine 609

Output 9 H. P., 1500 r. p. m., radiator, fuel consumption 205 gr. \pm 5%, weight 295 kg. Used in industry — for driving alternators, dynamos, pumps, etc.

610 Stationary Diesel Generating Set with Slavia 1 S 100 A Engine and Generator

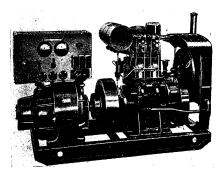
Stationary Diesel generating set with Slavia 1 S 100 A engine and generator. Output 7.5 kVA (6 kW), 1500 r. p. m., 400/231 V, 50 c/s, radiator and switchgear on frame. Weight 635 kg.

Us'ed as power source for smaller establishments.

Stationary Diesel Generating Set with Slavia 2 S 100 A Engine 611

Electric starter, 15 kVA (12 kW) generator, 1500 r. p. m., 400/221 V, 50 c/s, radiator and switchgear on frame, weight 750 kg.

Used as power source for smaller establishments



612 Mobile Diesel Generating Set with Slavia DR 27 Engine and Generator

Electric starter and generator, output 20 kVA (16 kW), 1500 r. p. m., 400/231 V, 50 c/s with radiator and switchgear, mounted on unsprung chassis with bonnet, disc wheels and tyres. Weight 1400 kg. Used as power source in building trade, and the like.

Škoda, Type 4 SB 160 Diesel Engine

Output 90 H. P., 750 r. p. m., pneumatic starting. Fuel consumption 180 gr. \pm 5 %, weight 2 800 kg. For use with 1,5 cu. m. dredgers.

614 - Škoda, Type 6 S 160 Diesel Engine

Output 135 H. P., 750 r. p. m., pneumatic starting, radiator, extended shaft, clutch, bearing and pulley on frame, Fuel consumption 180 gr. \pm 5 %. Weight 4 400 kg. For use with boring and various machines.

Škoda, Type 8 S 140 R Diesel Engine, Output 228 H. P., 1,500 615 r. p. m.

Diesel engine with electric starter. Fuel consumption 185 gr. \pm 5%. Weight 2700 kg. Used for driving various machinery, such as pumps, alternature of the starter of the tors, etc.

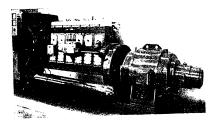
Stationary Diesel Generating Set with Škoda 4 S 160 Engine 616 and Generator

Pneumatic starter, generator. Output 75 kVA (60 kW), 750 r. p. m., 400/231 V, 50 c/s, with radiator on frame and switchgear. Weight 3 900 kg. Used as power source for medium sized industrial establish-

Stationary Diesel Generating Set with Škoda 6 S 160 Engine 617 and Generator

Stationary Diesel generating set for pneumatic starting, with generator. Output 100 kVA (80 kW), 750 r. p. m., 400/231 V, 50 c/s, radiator on frame, switchgear. Weight 5 000 kg.

Used as power source for medium sized establishments.



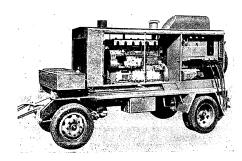
Stationary Diesel Generating Set with Škoda 8 S 160 Engine 618 and Generator

With pneumatic starter and generator. Output 125 kVA (100 kW), 750 r. p. m., 400/231 V, 50 c/s, with radiator and switchgear. Weight 6 100 kg.

STROJEXPORT

Mobile Diesel Generating Set with Skoda 6R 140 Engine 619 and Generator

With electric starter and generator. Output 125 kVA (100 kW), 400/231 V, 50 c/s, with switchgear and radiator on motor car chassis, braking device and bonnet. Weight 6 000 kg.
Used for outdoor assembling jobs and building sites.



620 BD 1 S 72 A Petrol Engine

Output 5.3 H. P., 230 r. p. m., weight 45 kg. Used for driving of various small machinery equipment, such as pumps, etc.

621 Bd 1 S 50 A Petrol Engine

Output 1.6 H. P., 300 r. p. m., weight 15 kg. Used for driving of various small machinery equipment, such as pumps, etc.

Mobile Petrol-Electric Generating Set with BD 1 S 72 Engine and Generator

Output 2.5 kW, 300 r. p. m., 220/231 V, 50 c/s, with switch gear and cables, all on two wheel chassis with bonnet and tyres. Weight 311 kg. Used as power source for small establishments.

Stationary Petrol-Electric Generating Set with BD 1 S 72A Engine and Generator

Output 2.5 kW, 3000 r. p. m., 220/380 V, 50 c/s, with switch-gear on frame. Weight 170 kg. For use in small establishments.

Škoda, Type 6L 275 Marine Diesel Engine

Output 323 H. P., 412 r. p. m. (reduction to 300 r. p. m.), with control table, fuel consumption 175 gr. \pm 5%. Weight 12 000 kg. Used for ships.

Type 6L 160 Škoda Diesel Engine 625

Output 135 H. P., 750 r. p. m., with double piston cooling pump. Fuel consumption 180 gr \pm 5%. Weight 2750 kg. Suitable as a marine Diesel engine.

Type PDH 25 N Blower

Volume of sucked air 2500 cu. metres per hour. Filling pressure 1.35 atm. Weight 195 kg. Application: Used to increase the normal output of the Diesel engine to 270-400 H. P. The main parts of the blower are exhibited.

Type 4 L 160 SKODA Diesel Engine

Output 90 H. P., 750 r. p. m., with double piston cooling pump. Fuel consumption 180 gr. \pm 5%. Weight 2200 kg. Suitable as a marine Diesel engine.

3 L 110 ŚKODA Diesel Engine

Output 45 H. P., 1500 r. p. m., with double piston cooling pump. Fuel consumption 185 gr. \pm 5 %. Weight 780 kg. Suitable as a marine Diesel engine.

628 Type 12 V 170 DR CRD Diesel Engine

Output 410 H. P., 1 360 r. p. m., V cylinder arrangement. Water cooled. Fuel consumption 170 gr. \pm 5%. Weight 2 600 kg. Also suitable as a marine Diesel engine.

Filament Set for Short Time Transmitters

The set consists of a d. c. A 5022-6 shunt dynamo. The dynamo is designed for 70 kW output, 2 000 A current, 1,5—35 V voltage and a speed of 730 r. p. m.
The dynamo is driven by a slip ring induction motor of MSRL 2081 type, with firm Db, Ho brushes.
Output 85 kW, 740 r. p. m., voltage 380 V.

Commutator Dynamometer 55508 4 4

The commutator type dynamometer is basically a stator fed variable speed polyphase commutator motor. The stator of the dynamometer has a winding like a conventional induction motor. Height power factor in the whole regulating range can be obtained through a special connection of compensating condenser (Czechoslovak patent). The r. p. m. characteristic of the dynamometer is of shunt type, i. e. the dynamometer speed varies only a little with the load,

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.

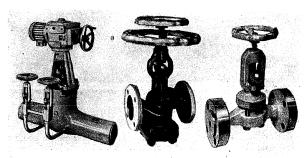
72

STROJEXPORT

STROJEXPORT

thus enabling easy measurement. The dynamometer can be operated as a braking generator or as a driving motor.

The motor run can be changed into generator run without shutting down the equipment. For instance if the dynamometer is used for running idle and internal combustion engine, it can act as a braking generator as soon as the fuel is introduced in the combustion chamber of the internal cumbustion engine.



641 Gate Valve, Nominal Pressure 10, Dia. 200

Hydraulic control. Water, oil or air remote-controlled. Hydraulic drive is supplied including the respective fittings and union pipes. Types are available for mounting to the floor.

- Gate Valve with Electric Drive on Lid, Nominal Pressure 6, Dia. 150.
- Gate Valve with Electric Drive on Lid, Nominal Pressure 10, Dia. 130 643
- Gate Valve with Electric Control on Strap, Nominal Pressure 10, Dia. 130 644

Electric drive. Controlled from one operator's post. Gate valves are available with electric drive mounted on a pillar.

- 645 Gate Valve, Nominal Pressure 6, Dia. 100
- Gate Valve, Nominal Pressure 6, Dia. 250 646

Grey cast-iron gate valves for cold water user for water installations and central





Fittings for all kinds of various pressures and temperatures for various industrial branches will be supplied by the sole exporter.

647 Gate Valve with Stuffing Box, Dia. 150

Gate valves with stuffing boxes are used whenever volatile and harmful liquids should be prevented from escaping.

648 Cross-Section on Gate Valves Welded of Pressed Parts, Nominal Pressure 16, Dia. 30

The advantage of gate valves is their light weight which is especially important for some chemicals.

649 Cross-Section of Double-Seat Plunger Type Gate Valve, Dia. 150

The double-seat plunger type gate valve, nominal pressure 10, controls and regulates the water level in reservoirs.

650 Cross-Section of Swing Check Valve with Hot Water Byepass, Dia. 150

Swing Check Valves are designed for damping of reverse impacts in horizontal piping. The bye-pass is used for filling or draining of the connected pipes. Smooth closing is ensured by means of various pistons which are supplied with the swing check valves.

- 651 Gate Valve, Nominal Pressure 6, Dia. 80 Cross-Section Cross-section of the cast-iron gate valve showing the wedge shutter.
- **652** Stuffing Box Compensator, Dia. 100 Cross-Section Cross-section of the stuffing box compensator, nominal pressure 10, used for levelling of piping dilatations.
- 653 Strap-Type Stop Valve, Nominal Pressure 40, Dia. 25
- **654** Strap-Type Stop Valve, riominal Pressure 40, Dia. 65
 Strap-type stop valves, nominal pressure 40, with flanged ends are available for various temperatures and media.
- 655 Direct Stop Valve, Sominal Pressure 16, Dia. 25

76

- 656 Direct Stop Valve, Nominal Pressure 16, Dia. 80
 Direct cast-iron stop valves with flanged ends, nominal pressure 16 are supplied with or without stuffing boxes
- 657 Non-Return Valve, Nominal Pressure 16, Dia. 80

 Horizontal piping non-return valve, nominal pressure 16, direct or angle type, flange connected.

STROJEKRORT

- 658 Safety Valve with Weights, Nominal Pressure 40, Dia. 25
- 659 Safety Valve with Weights, Nominal Pressure 64, Dia. 40
 Low lift safety valves with weights, angle type for nominal pressures of 16—100.
- 660 Spring Safety Valve, Nominal Pressure 16, Dia. 50
- 661 Spring Safety Valve, Nominal Pressure 16, Dia. 100
- 662 Spring Safety Valve, Neminal Pressure 40, Dia. 32

 Low lift spring safety valves with flanged, socket or screwed ends with atmospheric blow-off, or with outlet flange.
- 663 Spring Safety Valve, Stainless, Nominal Pressure 16, Dia. 50
 Low lift spring safety valve, nominal pressure 16, stainless, designed for corresive chemicals.
- 664 Spring Reducing Valve, Nominal Pressure 160, Dia. 50/80
- 665 Self-Stop Valve, Nominal Pressure 16, Dia. 25
- 666 Feed Valve, Nominal Pressure 100, Dia. 150

The feed valve provides automatic feed control with electric drive.

- 667 Double Safety Valve with Weights, Nominal Pressure 100, Dia. 65
- 668 Reducing Valve, Nominal Pressure 16, Dia. 150/300
 Spring weight reducing valve, dia. 150/300, nominal pressure 16, with water cooled diaphragm for steam.
- 669 Reducing Valve, Nominal Pressure 16, Dia. 150/300 with Steam Weight

Steam weight reducing valve, direct with water cooled diaphragm for steam.

- 670 Direct Stop Valve, Stainless, Nominal Pressure 16, Dia. 50
- 671 Direct Stop Valve, Stainless, Nominal Pressure 16, Dia. 200
- 67% Angle Type Valve, Stainless, Nominal Pressure 16, Dia. 50
- 673 Oblique Valve, Stainless, Nominal Pressure 16, Dia. 50

STROJEXPORT

Direct Stop Valve, Stainless, Nominal Pressure 16, Dia. 32 674 Direct, angle type or oblique stop valves, made of stainless materials are designed for corrosive chemicals.

Blow-Down Valve, Dia. 15 675

Blow-Down Valve, Dia. 25 (50 L 4, 100) 676

Blow-Off Valve, Dia. 40 (50 KS 5, 100) 677

Blow-down and blow-off valves are designed for permanent or periodical blowing-off of steam boilers.

Steam Traps, Nominal Pressure 100, Dia. 25 678

Steam Traps, Nominal Pressure 250, Dia. 25 679

Gate valve or valve system steam traps.

Inspection Sight-Windows, Stainless 680

Inspection Sight-Windows, Bronze 681

Inspections Sight-Windows, Aluminium 682

Inspection sight-windows are made from different materials for various active chemicals.

683 Valve K 6

684 Valve T6

Valves with Hard Rubber Lining, Dia. 50 685

Valves with hard rubber lining are designed for sulphuric acid and other suitable chemicals.

Valve made of non-ferrous metal, Dia. 50-5716 686

Reversing Valve, Stainless (angle shaped), Dia. 150 687 Intended for special chemical purposes.

Stop Valve, Nominal Pressure 100, Dia. 10 688

Stop Valve, Nominal Pressure 250, Dia. 10 689

Stop Valve, Nominal Pressure 64, Dia. 25 690

Stop Valve, Nominal Pressure 200, Dia. 25 691 Small stop valves with spring mounted spindle for identical pressures.

Stop Valves with Unsprung Spindle Small stop valves with spring mounted spindle for identical pressures.

STROJEXPORT

Reflexion Water Level Indicator 693

The reflexion water level indicators show the water level in the steam boiler. They are supplied with valve or cock heads, double or inclined inclined.

Water Gauge Glass/Mica 694

Glass/Mica water gauges with relief glass are designed for overpressures of 90 and 125 atm. Also available with coloured indicator.

Pressure Gauge Valve, Nominal Pressure 40, Dia. 15

Feed Head, Nominal Pressure 40, Dia 50 696

Non-Return Ammonia Valve, Nominal Pressure 40, Dia. 15 697

Non-Return Ammonia Valve, Nominal Pressure 25, Dia. 100 698

Direct Ammonia Stop Valve, Nominal Pressure 25, Dia. 40 699

Direct Ammonia Stop Valve, Nominal Pressure 25, Dia. 100 700 Non-return and ammonia stop valves, nominal pressure 25, special direct or angle types.

Model of a Power Plant 701

Model of a Reducing Station 702

Weld End Valve, Nominal Pressure 160, Dia. 65 -703 Cross-Section

Cross-section of the weld end valve with air-tight cover and welded sockets.

Stop Valve, Nominal Pressure 250, Dia. 8 - Cross-Section 704

Weld End Stop Valve, Nominal Pressure 250, Dia. 8 705

Flange End Stop Valve, Nominal Pressure 250, Dia. 15 706

Flange End Stop Valve, Nominal Pressure 250, Dia. 25 707

Flange End Stop Valve, Nominal Pressure 250, Dia. 40 708

Flange End Stop Valve, Nominal Pressure 250, Dia. 65 709

Non-Return Vertical Valve with automatic side relief at minimum load, Nominal Pressure 100, Dia. 80 710 Suitable for vertical pipes.

Non-Return Horizontal Valve, Nominal Pressure 160, Dia. 65 711 Non-return valve designed for horizontal high-pressure

Weld End Gate Valve, Nominal Pressure 160, Dia. 200 712

Weld End Gate Valve, Nominal Pressure 160, Dia. 65 713 High-pressure weld end gate valves for steam, nominal pressure 160, with pressure-tight cover for steam 575° hot.

Gate Valve for Flange Connection with electric drive, Nominal Pressure 160, Dia. 200

High-pressure gate valve for flange connection, nominal pressure 160, electrophone controlled.

Gate Valve, Nominal Pressure 40, Dia. 80 715

Gate Valve, Nominal Pressure 40, Dia. 200 Standard wedge type cylindrical gate valves for nominal pressure of 40 and various working conditions. Available with straps or cover.

Bye-Pass Gate Valve, Nominal Pressure 64, Dia. 350 717 Wedge type bye-pass gate valve, nominal pressure 64.

Crude Oil Socket Slide Valve, Dia. 2" 718

Crude Oil Flange Slide Valve, 719

Crude oil slide valves are of special design.

720 Gas Gate Valve with elastic gland

Divided wedge gate valve with elastic glass gland.

Gate Valve with electric drive, Dia. 800 721

Nominal Pressure 2,5, Dia. 2 000 722 Gate Valve with electric drive,

Gate valves large in dia., for water or gas, with rack and pinion and electric drive, remote-controlled.

Swing Check Valve, Nominal Pressure 64, Dia. 300 723

Swing check valve, nominal pressure 64, for damping of reverse impacts in horizontal pipping. Various types of bye-pass and piston swing check valves are available.



EXCAVATOR Excellent in work, backed by the Skoda reputation Excavators road rollers concrete mixers transporters

all types of cranes bridges factory hall constructions cableways new machines for the building trade

Sole exporter:

Excellent in work, backed

STROJEXPORT

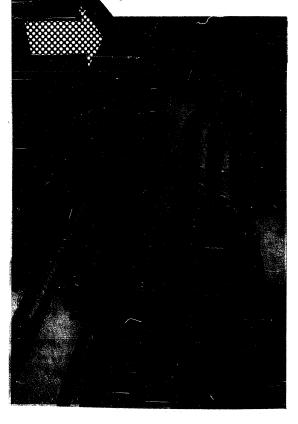
PRAHA CZECHOSLOVAKIA

PRODUCTS of the Czechoslovak Heavy

Engineering

0

Represented by the names of ŠKODA, ČKD, Vítkovice Iron Works, First Brno Engineering Works, Královo Pole Engineering Works, Přerov Engineering Works, Transporta, Komárno Shipyard, Electrical Engineering Works, etc. Products of these marks are supplied to all parts of the world.



Stuffing Cock, Nominal Pressure 10, Dia. 100 724

Three-Way Stuffing Cock, Nominal Pressure 10, Dia. 100 725

Stuffing cocks, nominal pressure 10, are available in various types—direct, three-way and multiple-way stuffing cocks— and for various connections: screwed, socket, flange or combined. Stuffing cocks are made of different materials for various media.

Suction Basket, Nominal Pressure 10, Dia. 150

The suction basket ensures pumping of pure water and maintains the required water column.

Stand with Opening Indicator 727

The stand with opening indicator is fitted above the floor, and serves for the control of fittings and shows the lift opening.

Radiators

for hot water or low-pressure steam heating are supplied of 100, 150 and 200 mm in depth and 300, 500 and 1 000 mm in height.

742 Sectional Cast Iron Boilers

for hot water and low-pressure steam for central heating boiler houses or hot service water for kitchens and bathrooms. There are boilers available of 0,9 to 53 sq. metre heating area and 10 800 to 424 000 kcal output. The boilers are used for heating flats, floors, offices, cafés, restaurants, cottages, stores and factories.

System SLATINA Automatic Low-pressure Boilers 743

are highly economical boilers used for central heating. Their grates are suitable even for inferior industrial fuels which are burned up to 80 % without any fumes whatsoever.

The high capacity of these boilers varies between 75 and 80 % according to the granulation, contents and properties of ashes. The boilers are also equipped with air supply regulators for steam or hot water control. control.

751 Z Variators

are mechanical devices by means of which the number of revolutions may be maintained at any given rate even at variable load. Precision manufactured parts, made of high-grade material ensure smooth and trouble-free operation. Variators which are easy to operate, are available in various types and sizes.

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.

STROJEXPORT

PRODUCTS of the Czechoslovak Heavy Engineering

Represented by the names of ŠKODA, ČKD, Vítkovice Iron Works, First Brno Engineering Works, Královo Pole Engineering Works, Přerov Engineering Works, Transporta, Komárno Shipyard, Electrical Engineering Works, etc. Products of these marks are supplied to all parts of the world.



Stuffing Cock, Nominal Pressure 10, Dia. 100 724

Three-Way Stuffing Cock, Nominal Pressure 10, Dia. 100 725

Stuffing cocks, nominal pressure 10, are available in various types — direct, three-way and multiple-way stuffing cocks — and for various connections: screwed, socket, flange or combined. Stuffing cocks are made of different materials for various media.

Suction Basket, Nominal Pressure 10, Dia. 150

The suction basket ensures pumping of pure water and maintains the required water column.

Stand with Opening Indicator 727

The stand with opening indicator is fitted above the floor, and serves for the control of fittings and shows the lift opening.

Radiators

for hot water or low-pressure steam heating are supplied of 100, 150 and 200 mm in depth and 300, 500 and 1000 mm in height.

Sectional Cast Iron Boilers

for hot water and low-pressure steam for central heating boiler houses or hot service water for kitchens and bathrooms. There are boilers available of 0,9 to 53 sq. metre heating area and 10 800 to 424 000 kcal output. The boilers are used for heating flats, floors, offices, cafés, restaurants, cottages, stores and factories.

System SLATINA Automatic Low-pressure Boilers 743

are highly economical boilers used for central heating. Their grates are suitable even for inferior industrial fuels which are burned up to 80 % without any fumes whatsoever.

The high capacity of these boilers varies between 75 and 80 % according to the granulation contents and proporties of school. The boilers

ing to the granulation, contents and properties of ashes. The boilers are also equipped with air supply regulators for steam or hot water control.

751 Z Variators

are mechanical devices by means of which the number of revolutions may be maintained at any given rate even at variable load. Precision manufactured parts, made of high-grade material ensure smooth and trouble-free operation. Variators which are easy to operate, are available in various types and sizes.

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.

752 Gearboxes

are used for transmitting the torque at the simultaneous change of the number of revolutions. Gearboxes are supplied for various industries, such as for mines, foundries, steel works, engineering works, cement works, etc.

761 F20 HONM Shearing Coal Cutting Machine

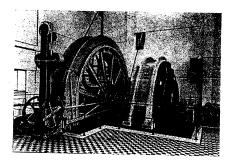
Suitable for drivages in coal and inclines up to $28^{\circ}\!.$ Approximate size: $4\,500\,\times1\,200\,\times700\,$ mm. Principal features:

a) Easy Control
b) Low Height
c) Automatic Travel and Cutting Head Rotation
d) Mechanical Feeds
Sucked air consumption 45—50 cu. metres per hour/1 H.P.
Cutting chain motor
Cutting mechanism motor
Travelling mechanism motor
Mechanical feed motor
Methanical feed motor
1 H.P.
Weight of the machine
2 2500 kg

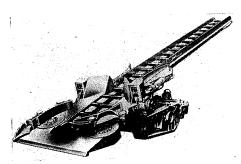
762 Shovel Loader NL 12 V

The machine is used for preparatory work in mines, tunnels, etc. The mineral handled may be of various kind, either in grains or lumps of $30\times30\times30$ cm.

Dimensions of loader Output of loader per hour Capacity of shovel Air consumption for 1 motor per hour Gauge Approximate weight 1 890×1 120×1 240 mm 40 cu. metres 0,12 cu. metre 320 cu. metres as required 2 200 kg



763 Double Drum Winding Machine B 3508 CFD James Dia. of drum 3 500 mm. 250 kW electric motor. Speed control. The mine hoist with cage is 17 metres high.



764 Praga NJ 8-11 Loader

Net weight of loader
Maximum length of loader
Maximum length of loader
Maximum length of loader
Maximum loading height
Maximum loading height
Maximum loading height
Maximum loading height
Clearance above rear axle
Driving motor
Voltage
Motor output
Normal Loader capacity in loose
material
Maximum loader capacity in
loose material
Travelling speed, forwardreverse

5500 kg 7,55 metres 1,70 metre 1,74 metre 175 mm 3 metres 1,4 metre electric explosion motor 380—500 V/50 c/s 20 H.P.

90 tons per hour

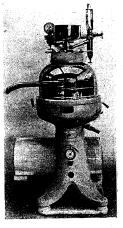
120 tons I 1,13 km per hour II 3,54 km per hour

781 PD 300 Plate Type Milk and Cream Pasteurizer

Output 3000 litres per hour. The working plates and other fittings coming in contact with milk are of stainless steel. The packing is of special rubber and other parts are made of steel or cast iron.

782 SMF 5 Cream Separator

Output 5000 litres per hour. It is designed for cream separation, milk purification and egalisation, i. e. for regulating fat contents of milk immediately after decreaming.



784 Type PS 8 Rotary Filling Machine

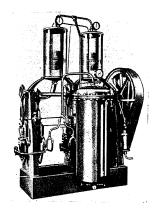
The machine is designed for filling bottles with soda-water and lemonade. It is suitable for maximum 0,5 liter bottles, 75 mm in dia. and 260 mm in height. Output: 700--1 200 bottles per hour.

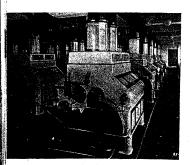
785 Automatic Vacuum Carbonator IS 2

The automatic vacuum carbonator is designed for the manufacture of soda-water, i. e. water saturated with carbon dioxide (CO_2). Output 900 litres per hour.

791 NAMA Automatic Bottle Filling Plant

The plant is designed for filling bottles with lemonade, soda or mineral water at a rate of 6000 bottles per hcur. In addition the bottles are washed, dosed and crowned. The plant, consisting of various machines, is suitable for all kinds of bottles. Maximum dimensions of bottles: 90×270 mm. Minimum dimensions of bottles: 60×240 mm. Approximate input 20 kW.





801 Four Roller Mill with mechanical discharging equipment, Type M

Diameter and length of rollers

of rollers Output

Input (for wheat

(for rye grinding)

250×1 000 mm 60-70 kg of wheat on 1 decimetre roller length 0,3-0,4 kW

0,3-0,4 kW on 1 decimetre roller length 0,6-0,7 kW on 1 decimetre roller length

802

Pneumatic Flour and By-product Conveyance in a Mill

Diameter of piping

70/76 metal 60—70 kg of wheat on

Diameter of separators

250 mm metal

Packing

300 mm glass

dia. 200 mm, length 160 mm

Brick-Making Set

The set produces full and hollow bricks and prepares materials for stamping of tiles on turntable presses. The described layout is especial ly suitable for the production of thin bricks and tiles where careful processing and preparation of material is required. Brick-making sets consisting of machines for various outputs corresponding to the properties of various clays, individual machines and complete brickwork equipment are supplied. Approximate output 3500—4500 pces. per hour. The set includes:

811 The Box Feeder

3 chambers, $90 \times 100 \times 500$ cm for uniform feeding of clay, including electric motor.

812 The Edge Mill

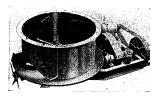
2 wet process milling tracks with light-weight runners and electric motor.

813 The Tray Mixer

tray dia. 2500 mm, for mixing of materials coming from the edge mill, including electric motor.

814 The High-Speed Rollers

differential roller speeds, roller dia. 800 mm, width 600 mm, including 2 electric motors.



The Vacuum Worm Press, Type 450 LišV

with single-shaft mixer, especially suitable for pressing thin ware, including vacuum pump and electric motor for both the press and the pump.



84

STROJEXPORT

STROJEXPORT

The Automatic Cutting and Conveying Equipment

designed for cutting and automatic conveying of the goods into the multistage truck. Output 5-7 thousand pces. per hour.

817 The Multistage Truck receiving the goods from the loader or automatic cutting equip-

The Electric Bogie by means of which the multistage

831 Jaw Crusher, Type V-3-2-N

Size of mouth 320/200 mm Output per hour in cu. metres with a gap of 60 mm 4-6
Required input 9-10 H. P. Approximate weight 1750 kg

832 Jaw Crusher, Type V-4-2-N

Size of mouth 400/250 mm Output per hour in cu. metres with a gap of 60 mm 6-9 Required input 13-15 H. P. Approximate weight 3 300 kg

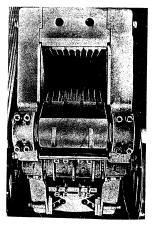
Jaw Crusher. Type V-5-2-N

Size of mouth 500/320 mm Output per hour in cu. metres with a gap of 60 mm 10–15 Required input 20–25 H. P. Approximate weight

834 Jaw Crusher Type V-6-2-N

Size of mouth 9 600 1 Output per hour in cu. metres 9 600 kg with a gap of 60 mm 16-24 Required input 32-40 H. P Approximate weight 640/400 mm

are conveyed from moulding room into the drying



Mobile Crushing and Sorting Set, Type MPV-4

The set is used for crushing and sorting any kind of stone. Its application is of extraordinary advantage in places far from any comcould be found directly on the site, or in places far from any communications. The material is crushed into three fractions and delivered into the truck by means of conveyor belts which are included in the accessories.

the accessories.

The crusher, sorter, fan and belt conveyors are driven by a Diesel engine of 27 H. P. capacity.

Output of the set Approximate weight

6-9 cu. metres per hour 8 000 kg

STROJEXPORT

Vibrating Screen, 500/1500 mm

Width of screen 500 mm Length of screen 1500 mm Approximate required input 2 H.P. The machine may be supplied with one, two, three or four screens. Approximate weight

Screening Drum, 900 mm in dia.

Diameter of screen Length of screen Output for gravel Required input Approximate weight 900 mm 4 500 mm 10—15 cu. metres per hour 2 H. P. 1 500 kg

Laboratory Crushing Mill, Type MK 380

The laboratory crushing mill is used for crushing minerals and laboratory tests. It is also suitable for lime-kilns, gravel-pits, cement

Diameter of rotor Width of rotor Speed Approximate output Weight 380 mm 730 mm 900 r.p.m. 300-2 000 kg per hour 500 kg

851 1435 BH 150 Shunting Diesel Locomotive

Gauge Axle system Maximum speed Engine output Adhesion weight

1 435 mm B 40 km per hour 150 H. P. 24 tons



852 VT 434,0 Shunting and Line Diesel-Electric Locomotive

Gauge Axle system Maximum speed Engine output Adhesion weight

1 435 mm Bo' Bo' 70 km per hour 700 H.P. 63,6 tons



853 E 499.0 Electric Universal Overhead Wire Locomotive

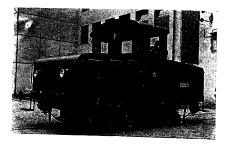
Gauge
Axle system
Maximum speed
Voltage
Permanent output
Adhesion weight

1 435 mm Bo' Bo' 120 km per hour 3 000 V d. c. 2 000 kW 80 tons

854 150 T Electric Open Cast Mine Locomotive

Gauge
Axle system
Maximum speed
d. c. voltage
Output
Adhesion weight

1 435 mm Bo+Bo+Bo 65 km per hour 1 500 V 1 500 kW 150 tons



855 E 202.1 Industrial Electric Accumu'ator Locomotive

Gauge
Axle system
Maximum speed
Voltage
Output
Weight

1 435 mm Bo 60 km per hour 300 V 90 kW 24 tons

CZECHOSLOVAK HEAVY INDUSTRY scientific and technical monthly for engineering and heavy industry.

856 Coke-Plant Three-Phase Electric Locomotive

Gauge Maximum speed a. c. voltage Output Weight 1 435 mm 7 km per hour 500 V 80 kW 17,6 tons

857 Diesel-Electric Track Locomotive T 47.0

Gauge Axle system Maximum speed Output Adhesion weight 750 mm Bo' Bo' 40 km per hour 350 H. P. 32 tons

858 Industrial Steam Locomotive 900 BS 299

Gauge Axle system Maximum speed Tractive force Weight in full trim

900 mm 0-2-0 30 km per hour 7 460 kg 22,9 tons

859 Open Cast Mine Electric Locomotive

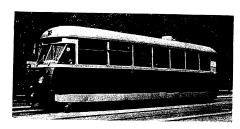
Gauge
Axle system
Maximum speed
d. c. voltage
Output
Weight

900 mm Bo' Bo' 45 km per hour 1 500 V 620 kW 64 tons

871 Locomotive Fittings

NVL 9 injector
RS 11 injector
PO mud valve, complete
LFM X injector
LFM X changeover valve
LFM X separating valve
AEY 6 injector
Duplex II pressure reducing valve
end closing device
double end closing device
locomotive steam coupling
half-coupling for steam heating
spray ejector

FSA lubricator
FS lubricator
DV lubricator
DV lubricator, complete
D/3 lubricator, complete
D/3 lubricator
BO III oll sprayer
Olva I-II-III sealing devices
2 x piston oil distributor
ĉ x piston oil distributor
flexible hose
A-72321 valve
B-72322 valve
Ga-72504 valve



88

STROJEXPORT

STROJEXPORT

T 1 Tramway Car

The car is driven by four traction motors. Each axle has an independent drive. Two wheel-sets.

Line voltage Maximum speed Weight of empty car

600 V 65 km per hour 16 tons

891 Series Car Eight-wheel Coach

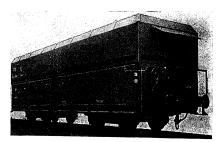
Number of seats Weight of empty coach Electric lighting system

392 BCa Eight-wheel Coach, Gauge 1435 mm, Knorr Pressure

Series M 131.1 Four-wheel Motor Coach

Tatra twelve-cylinder Diesel engine, air cooled. Capacity 14825 litres, 1600 r. p. m.

Weight of empty coach Number of seats



Series Wa Eight-wheel Hopper Balast Wagon

Mechanical side discharge, for coal

Weight of wagon Capacity Cubic capacity

The frame and chassis are welded.

895 VRa Series Tank Wagon

Used for the transport of minerals and inflammable materials.

Capacity Weight of wagon Maximum load

90

Through-going heating with a heating surface of 32 sq. metres.

STROJEXPORT

896 Vtr Four-wheel Freight Wagon, High-sided "Božič" pressure brake. Gauge: 1435 mm.

897 Otdr Four-wheel Freight Wagon, Low-sided Similar to the high-sided freight wagon.

898 Series Pao Eight-wheel Platform Truck

 $40\!-\!50$ ton loading capacity. The truck corresponds to RIV Standards. Gauge 1435 mm.

899 Narrow Gauge Dumpcar

Body capacity Gauge

0,75 cu. metre 600 mm

900 Narrow Gauge Dumpcar

Body capacity Gauge

1 cu. metre 600 mm

901 Dumpcar for surface mines and quarries

902 Aluminium Four-wheel Tank Wagon without insulation

Gauge Capacity "Božič" pressure brake.

1 435 mm 200 hectolitres

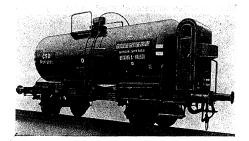
Aluminium Four-wheel Tank Wagon, insu'ated

903 V Four-wheel Tank Wagon

Capacity of tank
Weight of wagon
Maximum load
Used for inflammable materials, crude oil and minerals oil (spec. weight 0,87).

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.

STROJEXPORT



904 Four-wheel Tank Wagon

Capacity of tank Weight of wagon Maximum load

125 hectolitres 11 tons 20 tons

905 Eight-wheel Dum. Used for loose materials.

Weight of car Maximum load Capacity

31 tons 45,5 tons 23,5 cu. metres

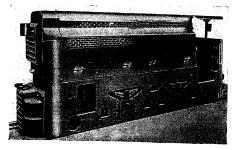
906 Mine Car for 12 People

907 908

Narrow Gauge Dumpcar

Gauge Body capacity

600 mm 1,75 cu. metre



Stavoloko-Śkoda Open Cast Mine Locomotive Type BDN 30

Output Gauge Weight

911

92

30 H.P. 450—600 mm 6 300 kg

STROJEXPORT

912 Stavoloko-Škoda Open Cast Mine Locomotive Type BND 15

Output Gauge Weight

15—20 H.P. 450—690 mm 3 800 kg

913 Type Ald 2 Accumulator Mine Locomotive

> Gauge Output Speed

600 mm 4-8 km per hour

Number of driven axles Accumular battery Weight

type 4-K-225, 320 Ah, 40 V lead battery 2 100 kg

914 Explosion-proof Mine Locomotive, Type BVD 35

Wheelbase 1 000 mm, gauge 600 mm, tank air pressure 175 atm, approximate radius 6 km, minimum and maximum tractive force 500/700 kg = 1200/1500 kg. Weight 9 0000 kg. The locomotive is especially used in mines with explosive gases, emergency degree 2.

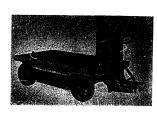
921 Wheels and Axle 931 "Dako"

Braking Equipment

941 High Lift Fork Electric Battery Truck, Type AV 1522

Lead battery
Rated capacity
Maximum capacity
Weight
Lift
Hoisting period
Fork shifting to the left
to the right
Forward tilting period
Maximum speed, fully loaded
Front axle wheel gange
Driving wheels
Steering wheels

100 mm either side 2,5 sec. 2,5 sec. 5 sec. 8 km per hour 530 mm 500×150 mm in dia. 350×100 mm in dia.





High Lift Fork Electric Battery Truck, Type AV 1522 with Tilting Basket

Basket capacity

0,5 cu. metre, i. e. about 1000 kg 70°

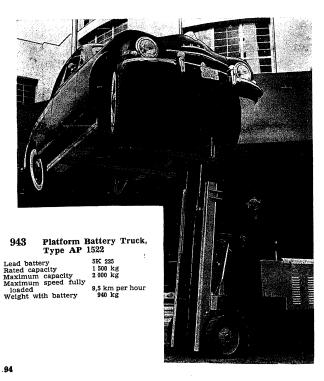
Maximum basket tilting angle

The movements of the basket are operated by two hydraulic, vertically set rollers.

Weight of basket 400 kg

Low Lift Electric Battery Truck, Type AN 1522 942

5K 210 Lead battery 1 500 kg Rated capacity 140 mm Lift 10 sec. Hoisting period 9 km per hour Maximum speed fully loaded Weight with battery 1 530 kg



Platform Battery Truck, Type AP 522

Lead battery Rated capacity Maximum speed, fully loaded Weight of truck

5K 210 500 kg

12 km per hour

with battery 640 kg

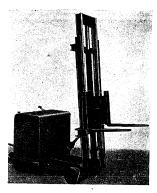
Electric Battery Pedestrian Hand Operated Truck with Lift Forks, Type AVR 511 945

Lead battery Rated capacity Travel forward, backward

500 kg I speed 2—3 km per hour II speed 4—5 km per hour 3 000 mm

Lift Weight of truck with battery

900 kg



Electric Battery Pedestrian Hand Operated Truck with Low Lifting Platform, Type ANR 511 946

Lead battery Rated capacity Travel forward, backward

500 kg I speed 2-3 km per hour II speed 4-5 km per hour

951 Mechanical Shovel with Conveyor, Type MLP 1

Motor of winding drum
Motor of conveyor
Speed of rope
Traction power
Approximate weight
Maximum working distance from
the winding drum axle
Output

Lift Weight of truck with battery

4,4 kW 0,7 kW 0,35 metre per second 500 kg 680 kg

15 metres 15—25 cu. metres per hour

961 Portable Slat Conveyor Type 408

Maximum load Conveyor speed Motor output Conveyor length Weight

100 kg 0,35 metre per second 0,27 kW 3 980 mm 145 kg

962 Portable Belt Conveyor, Type 426

Capacity 100 tons per hour, i. e. 35 cu. metres per hour Speed of belt 1,4 metre per second 0,7 kW Conveyor length 6810 mm Weight 280 kg

Portable Belt Conveyor, Type 428

Capacity 300 tons Speed of belt 1,4 metr Motor output 0,7 kW Conveyor length 8 810 mm Weight 350 kg 100 tons per hour, i. e. 35 cu. metres per hour 1,4 metre per second 0,7 kW

STROJEXPORT

963 Wheel Mounted Belt Conveyor, Type 410

Capacity Speed of belt Motor output Conveyor length Weight

80 cu. metres per hour 1,25 metre per second 2,2 kW 10 metres 1 260 kg

Wheel Mounted Belt Conveyor, Type 415

Capacity Speed of belt Motor output Conveyor length Weight

80 cu. metres per hour 1,25 metre per second 3 kW 15 metres 1 800 kg

964 Roller Conveyor

Length of track	3 000 mm
Rated width of track	800 mm
Diameter of roller	76 mm
Number of rollers per metre	10
Maximum capacity per metre	500 kg
Distance of trestles	1 500 mm

971 Electric Hoist, Type L III 8

Capacity
Height of lift
Speed of lift
Intermittent rating of lifting
motor 750 kg 10 metres 10 metres per minute 1,8 kW 35 metres per minute Speed of travel
Intermittent rating of travelling motor Weight

972 Chain Pulley-Block

Capacity
Testing load
Weight incl. 3 metre chain
Speed of lift
Lifting force required
Length 3 tons 4 500 kg 65 kg 0,5 metre per minute 59 kg 875 mm

Double Travelling Carriage, **Type D 513**

Carrying capacity Testing load Weight incl. 3 metre chain 3 tons 4 500 kg 64 kg

974 BRANO Pull Lift

Capacity Lift Force on lever Speed of lift Weight 2 000 kg 1 500 mm 35 kg 0,69 metre per minute 22 kg

981 V Universal Shovel Excavator D-500

The excavator is built to dig, swing and dump fast.

Shovel capacity
Diesel engine
Weight of excavator
Length of excavator with shovel
Height of excavator when towed

0,5 cu, metre 48 H. P. 19,9 tons 8,5 metres 3,5 metres



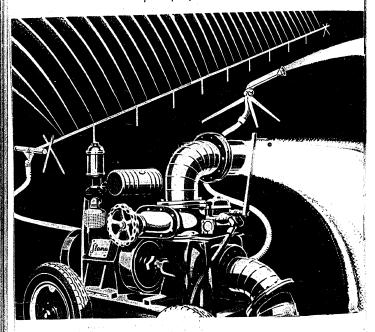


power stations Light and heavy chemical industry

- Foodstuff industry sugar cane or sugar beet mills, breweries, alcohol distilleries, cooling plants, etc.
- Building industry cement works, etc.
- Woodworking industry saw mills, plywood and veneer works
- Other technical industry textile plants, equipment for the manufacture of rubber and leather boots and shoes, sewing machines, bicycles, motorcycles, etc.

THOUSANDS of TYPES a single HIGH QUALITY

SIGMA PUMPS for the foodstuffs industry for mines, steel mills, construction jobs for household applications for fuels special pumps



PUMPS OF ALL KINDS

which have proved their worth everywhere in the course of 90 years.

Supplied exclusively by:

STROJEXPORT



982 Universal Shovel Excavator Ry-1

The excavator is built to dig, swing and dump fast.

Shovel capacity Diesel engine norm./max. Weight of excavator Width of excavator Height of excavator when towed

1 cu. metre 80/96 34,800 kg 3 metres 3,8 metres



991 Road Roller NV7E

Electric starter, Škoda 25110 Diesel engine, 20 H. P., 1000 r. p. m., net weight 6800 kg.

STROJEXPORT

992 Road Roller NV10E

Electric starter, Skoda 3S110 Diesel engine, 30 H.P., 1000 r. p. m., net weight 10000 kg.

993 Immersion Vibrator PVB 500

5,5 H. P. petrol engine, 2 flexible shafts, 4 metres in length, 2 vibration heads, 70 mm in dia., 2 vibration heads, 50 mm in dia. Weight 132 kg.

994 Surface Vibrator Type EVU 250

With 220/380 V, 925 kW electric motor, 3 000 vibrations per minute. Weight 40 kg.

995 Immersion Vibrator D 1135

220/380 V electric motor, 1,1 kW, 50 c/s. Number of vibrations: 3 000 per minute. Approximate weight 60 kg.

996 Immersion Vibrator PV 500 A

220/380 V electric motor, 1.6 kW, 7500 vibrations per minute, approximate weight 68 kg. Flexible shaft 4 metres in length.

997 Immersion Vibrator IT 1135

220/380 V electric motor, 1,1 kW, 50 c/s, 8 600 vibrations per minute. Approximate weight 47 kg. Flexible shaft 4 metres long,

998 Surface Vibrator A535

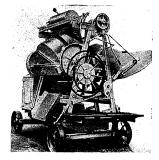
220/380 V electric motor, 0,55 kW, 3000 vibrations per minute, weight 26 kg.

999 Immersion Vibrator PV200

220/380 electric motor, 0.5 kW, 8 4000 vibrations per minute. Weight 25 kg. Flexible shaft 2,5 metres long.

Should you be interested in the opening of trade relations with Czechoslovak Glass- or Ceramic works you will acquire the best information on the trade possibilities by regularly following the richly illustrated monthly CZECHOSLOVAK GLASS REVIEW. 1000 Special 250 litre Mortar Mixer

The mixture is mixed in a stabile drum where curved blades rotate. The machine is provided with a hopper, and is mounted on a three-wheel bogie. The front wheel can be steered. Weight 1 300 kg; 4,4 kW electric motor drive.





1001 Concrete Mixer C 250

A mobile concrete mixer with 220/380 V electric motor. Drum capacity 250 cu. decimetres. Weight 2 700 kg.

1002 Hollow Block Machine T 1

Complete, with 2 vibrators and 1 standard mould. 220/380 V electric motor, compressor, conveyor, 40 metres long. Weight 2 450 kg.

1003 · Cement Gun CD 150

The machine is used in the building trade, for building of bridges and water dams, solidifying of weathered and damaged buildings, reinforcing of mine galleries and adits.

Output up to 200 sq. metres of layer, 2 cm thick, per 8 hours
Optimum pressure range 2,5 to 3,5 atm.

Required compressor 4,5 to 5 cu. metres per minute

1004 Mortar Pump and Plastering Machine OB3

With compressor and 220/380 V electric motor. Weight including compressor 950 kg.

 $KOVOEXPORT, \ Czechoslovak \ \ Export \ \ Magazine \ \ of \ the \ \ Czechoslovak \ \ Light \ and \ \ Precision \ Engineering \ Industry.$

98

STROJEXPORT

STROJEXPORT

1005 Construction Steel Bending Machine OS 41

With 220/380 V electric motor. Bending wheel speed: 4 r. p. m. Weight 450 kg.

1006 Vibrator A1135

1007 Surface Vibrator EVU 65

220/380~V,~0.175~kW electric motor, number of vibrations: 3 000 per minute, weight 17 kg.

1008 Surface Vibrator EVU 500

 $220\,380$ V. 1.1 kW electric motor, number of vibrations: $3\,000$ per minute, overall weight $65~{\rm kg}.$

1009 Surface Vibrator EVU 1000

 $220/380\;V,\;2.4\;\;\mathrm{kW}$ electric motor, number of vibrations: 3 000 per minute, overall weight 96 kg.

1010 Electric Ram B535

220/380 V, 0.55 kW electric motor, number of strokes: 560 per minute, approximate overall weight $47~{\rm kg}.$

1011 Rope Conveyor LT-1

For use with TI press. Electric motor drive, 0.4 kW, 220,380 V, dia, of endless rope 12 mm. Overall weight incl. 20 metre rope: 350 kg. Maximum working length: 80 metres.

1012 Sectional Transporter DD 800/200

Is used for transport of loose material to greater distances

Max. output
Max. transporting distance
Width of the transport belt
Max. speed of the belt
Min. speed of the belt

800 mm 1.25 m/sec. 1 m/sec.

370 tons/h.

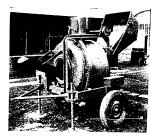
1013 Dosing Set DV 110

100

The set serves for determining of individual fractions of the concrete mixture in 500 litre concrete mixers. The machine is mounted on a two-wheel bogie. It has 4 supports and a shaft. Weight 1 250 kg. Weighing capacity up to 1 000 kg.

Should you be interested in the opening of trade relations with Czechoslovak Glass- or Ceraric works you will acquire the best information on the trade possibilities by regularly following the richly illustrated monthly CZECHOSLOVAK GLASS REVIEW.

STROJEXPORT



1014 Concrete Mixer K500 220/380 electric motor.

Length
Width
12. 30 metres
Drive: 2 d. c. electric motors, output 10 kW. 700 r. p. m.,
440 V
2 d. c. electric motors, output 8,5 kW, 700 r. p. m., 440 V
Riveted construction
The bridge revolves by 90° within 1 minute
Weight 177 cons



1022 A model of the bridge across the river Váh, at Púchov, Czechoslovakia

Welded throughout. Length 187 metres

1023 A model of the Ismailia Canal bridge in Cairo

The bridge was supplied in 1955.

Length
Width
Weight
Welded throughout.

102 metres 30 metres 570 tons

STROJEXPORT

1031 CH Centrifugal Pumps

Special series CH centrifugal Special series CH centrifugal pumps are used for pumping of acids, alkaline solutions and other active fluids. Long life and reliable service are ensured by the various materials used for the manufacture of these pumps according to the type of handled chemicals. The pumps are made of cast iron, cast steel, aluminium, lead, bronze, ferroalloys, Rubberlead, bronze, ferroalloys. Rubber-lined spiral casing.

> Delivery head Diameter of branches



50-4 000 litres per minute 3—75 metres 40-150 mm

NZ Centrifugal Sewage Pumps 1032

These pumps are especially designed for handling sludge, sewage and slush up to a temperature of $80~{\rm C}$. They provide excellent service on building sites, in paper mills and mines.

Capacity Delivery head Diameter of branches 100-2 500 litres per minute 5-30 metres

OZ Centrifugal Sewage Pumps

The OZ spiral casing non-clogging centrifugal pumps are built to handle mechanically or chemically polluted liquids containing heavy concentrations of solids, sludge, sewage and slush. In the sugar industry they are used for pumping of sugar beet pulp, foam and refuse, in paper mills for pumping of paper pulp and cellulose, and in the building trade and other industries they find a wide range of application. The largest type of this pump is used for floating potatoes.

Delivery head Diameter of branches

1 000-15 000 litres per minute 10-50 metres

100-300 mm

N Spiral Casing Centrifugal Pumps

The N spiral casing pumps are designed to handle clean water up to the temperature of 80 °C. By reason of their easy design they can also be used for pumping impure water.

Capacity

50-12 000 litres per minute

5-45 metres

Delivery head Diameter of branches

40-250 mm

Should you be interested in the opening of trade relations with Czecho-slovak Glass- or Ceramic works you will acquire the best information on the trade possibilities by regularly following the richly illustrated monthly CZECHOSLOVAK GLASS REVIEW.

102

STROJEXPORT

1034 DELTA Centrifugal Pumps

light-weight pumps of simple design ensure a maximum of economy in operation. They are especially intended for irrigation purposes.

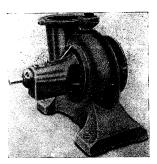
Capacity 150—5 000 litres per minute
Delivery head 5—40 metres
Diameter of branches 40—150 mm

DE Diagonal Centrifugal Pumps

These pumps are built for handling a large volume of water at a comparatively low delivery head.

Capacity

2 000-30 000 litres per minute



Delivery head 2—15 metres Diameter of branches 200—450 mm

1035 Q Spiral Casing Centrifugal Pump

These spiral casing double-entry impeller centrifugal pumps are designed for handling of clean or troubled water without coarse impurities.

Capacity

Delivery head Diameter of branches

3 000-40 000 litres per minute

30-120 metres

150-500 mm

TT-V Hot Water Impeller Pumps

The TT-V pumps are designed for continuous operation under high static pressure corresponding to the water temperature up to 300 $^{\circ}\text{C}.$

Delivery head

150-1 500 litres per minute

160 metres

Diameter of branches

50-125 mm

UZA-4 Self-priming Pumping Set

A pumping set oft he latest design. Flange connected to the Diesel engine. Mounted on a two-axle chassis.

Capacity

Delivery head Engine output

1 500-2 000 litres per minute

15-10-6 metres

9 H. P. at 1 500 r. p. m.

Are you interested in Czechoslovak products? CZECHOSLOVAK FOR-EIGN TRADE, a periodical of the Chamber of Commerce of Czecho-slovakia, regularly contains reports on traditional export articles as well as novelties of the Czechoslovak industrial production.

STROJEXPORT

1038 IRIPA 5 Pumping Unit

The pumping unit is mounted on a four-wheel truck or welded slide. It is fitted with NG-3a or NG-3 centrifugal pump driven by means of V-belts by a Slavia Diesel engine, 5 H. P., 900 r. p. m.

NG-3a pump: Capacity Delivery head 600-1 000 litres per minute 16-13 metres

NG-3 pump: Capacity

1 000-2 000 litres per minute

Delivery head

10-6 metres

Diameter of branches

1039

1040 IRISKO Irrigation Pumping Unit

DE-200 or ND-5a centrifugal pump directly connected to the 15 H. P. or 30 H. P., 1500 r. p. m. Škoda Diesel engine.

Capacity, litres per minute Delivery head, metres

IRISKO - 15 IRISKO - 30 4 000-6 000 3 000-6 500

10-7 19-12

Dia. of branches 8'

1041 Suction capacity generating set

1042 ZCV Spinning Mill Pumps

High quality pumps used for the production of artificial fibres in the High quality pumps used for the production of artificial fibres in the textile industry. High-grade material and precision workmanship ensure trouble-free, uninterrupted service. The design of these pumps is similar to that of the rotary geared pumps delivering the same volume of the liquid after each revolution.

Capacity N-20-30/min.

0,3-36 sq. cm/rev.

1043 ORDH 3-EFPO Rotary Blower

Frictionless operation. No lubrication of working surfaces required. The apparatus delivers pure air or gas. The direction of delivery can be changed by simply reversing the rotary motion.

Volume delivered Delivered medium

7,7—11 cu. metres per minute 4-6 metres of water column air or gas

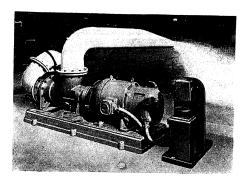
IRILO 7 Irrigation Pump

Mounted on a four-wheel truck. The DELTA-5a centrifugal pump is directly connected to the Slavia 7 H. P., 1300 r. p. m. horizontal

Capacity Delivery head Diameter of branches

1 300-2 100 litres per minute 13-8 metres

STROJEXPORT



1045 IRIPA 8 Pumping Unit

The pumping unit is mounted on a four-wheel truck or welded slide. It is fitted with NG-4a or NG-4 centrifugal pump driven by means of V-belts by 8 H. P., 800 r. p. m. Slavia Diesel engine.

NG-4a pump: Capacity
Delivery head
Diameter
of branches NG-4 pump: Capacity
Delivery head
Diameter
of branches

1 000—2 000 litres per minute 16—10 metres 500-3 000 litres per minute 10-7 metres

IRIPA 12 Irrigation Set 1046

Mounted on a four-wheel truck or welded frame. The self-priming IRI-NZ-8 pump is directly connected to the 12 H. P., 700 r. p. m. Slavia Diesel engine.

Capacity Delivery head Diameter of branches

2 500—4 500 litres per minute 8—6 metres 8"

IRIPA 27 Irrigation Pump

The pump is mounted on a four-wheel truck or welded slide. The centrifugal pump is directly connected to 27 H. P., $1\,500$ r. p. m. Slavia Diesel engine.

Capacity Delivery head Diameter of branches

8 000—10 000 litres per minute 7—6 metres 10"

1048 PXO-19 Pump for Beet

The design of this type of pump is backed by long experience in the manufacture of centrifugal pumps designed for pumping of various floating solid matters. Its compact but easy construction permits the lifting of beet and water without causing the slightest damage to the beet. The excellent design of the PXO-19 centrifugal pump with opened two-vane impeller fully meets the latest requirements in delivering beet from the ELFA washing plant for storage.

STROJEXPORT

1049 LILA Single-acting Hand Pump with Two Cylinders

The pump is used for pumping drinkable or service water in houses and farms, house hold water systems, irrigating gardens, etc. The interchangeable cylinders are 75 mm in dia. The pump can be mounted to the wall. Suction head 7 metres.

1050 RUBINA Portable Mine Pump

The RUBINA portable pumps are especially suitable for pumping work at forward points in mines.

Capacity Delivery head Diameter of branches 50—250 litres per minute 6—50 metres 40 mm



1051 NORA 100 Portable Pneumatic Pump

The pump is used in mines. It has no rotating parts, requires no lubrication and operates reliably even when dirty water is pumped.

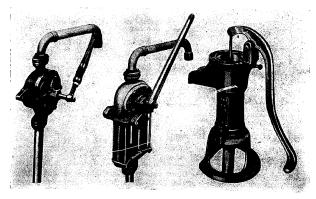
Capacity Delivery head Working pressure 50-175 litres per minute 45-8 metres 5 atm.

 $\begin{array}{c} 1052 \\ 1053 \\ 1054 \end{array}$

106

DARLING Automatic Water Supply Systems

Built in standard types with tanks of a volume of 150 to 500 litres. Larger water supply systems are made for villages, towns and factories.



STROJEXPORT

1055 ORIENT Hand Pump

This type of pump belongs to the series of simple light-weight pumps used for bored, dug or excavated wells up to 5 metres in depth (with ram driving point).

 Size
 2
 3
 4
 5

 Dia. of cylinder
 mm
 76
 89
 102
 114

 Dia. of suction branch
 1½"
 1½"
 1½"
 2"

NP-225 Shallow Well Stand Suction Pump

These pumps are widely used for household purposes, gardens, farms, etc. The maximum suction lift is 7 metres. The piston is inside the pump stand. They are suitable for bored, dug or excavated wells. Capacity 30 to 50 litres per minute.

Size: Dia. of cylinder mm 75 90
Dia. of suction branch 11/4" 11/2"

STANDARD and DURAL Lift Stand Pumps

These pumps are designed for pumping of drinkable or service water from bored, dug or excavated wells up to 30 metres deep. In addition to this type of pump DURAL pressure pumps and STADUR lift and pressure pumps are produced. The working cylinder is operated between the suction and lift branch.

Diameter of suction branch

11/4"

1056 Wing Pumps

Wing pumps are suction or pressure double-acting hand pumps. They are especially suitable for pumping of volatile liquids, such as petrol, benzol, alcohol or beer, liqueurs, wine, tar, oils, hot or cold water, etc.

Size 0 1 2 3 4 5 6 7 8 Dia. of branches $\frac{1}{2}$ $\frac{3}{4}$ 1 5 $\frac{6}{4}$ 7 8 $\frac{3}{4}$ 0 6 $\frac{3}{4}$ 0 9 2 2 2 2 2

1057 RR Sprayer

Used for circular spraying of soil, especially by gardeners and farmers. Simple design ensures trouble-free service.

Available in various sizes according to the irrigated area.

1058 V-1 Small Multi-Stage High-Pressure Turbine Pumps

These pumps are suitable for house water systems and garden irrigation. They are used in industry for pumping of water up to the temperature of 80 °C.

Capacity
Delivery head
Diameter of branches

80—120 litres per minute 7,5—40 metres 11/4"

STROJEXPORT

1059 KDD Piston Pumps

The pumps give good service where, by reason of safety, other pumps with electric drive or combustion engines cannot be used, or where the use of compressed air provides economy.

> Capacity Delivery head Diameter of branches

55-540 litres per minute 8-10 atm.

50-125 mm

1060 NAUTILUS Submersible Pumps

The pumps are used for handling clean, or service water, containing no hard mechanical impurities, and for bore-holes, minimum 145 mm in dia. They are driven by special electric motors up to 60 H. P. The pumps are suitable for bore-holes up to 150 metre deep.

1061 H Two-Stage Centrifugal Pumps

Robust medium-pressure pumps designed to handle clean or slightly impure water.

Capacity Delivery head Diameter of branches 150-3 500 litres per minute

5-100 metres 50---150 mm

New Kerbside Pump with swing arm - Type 8632

Motor pumping output 45 litres p. min. 760/x400/x 1740 mm 175 kg Low and light design enables reading from both sides.



1072 New Kerbside Pump - Type 8631

Motor pumping output Manual pumping output Maximum suction head Input Flow meter accuracy Dimensions: Weight:

45 litres p. min.
15 litres p. min.
5 metres of water column
0.8 kW
0.5%
700×400×1 660 mm
165 kg

STROJEXPORT

Low and light design enables reading from both sides.

1073 A new type of Kerbside Pump with counter (computor)

Output (motor pumping) Output (hand pumping) Maximum suction head Input Accuracy Dimensions:

45 litres per minute 15 litres per minute 5 metres in w. c. 0.8 kW 0.5% $700\times400\times1$ 660 mm 165 kg

Dimensions: Weight:

1074 Oil Rinsing Wagon

Used for sucking old lubricating oil from the headstock, gearboxes, etc. and rinsing with preheated oil. $\,$

Capacity of the 2 tanks Maximum working pressure Miximum operating vacuum Suction capacity Dimensions: Weight:

75 litres 9 metres of water column 6 cu. metres per hour 1 730×600×960 mm

Tank Trailer

Designed for the delivery of fuel, oil, petrol, lubricating oil and water, and refuelling of tractors in tractor stations and motor vehicles on large building sites. For use with motor vehicles. Tank capacity

Oil tank capacity Water tank capacity 3 petrol can capacity Output of the fuel hand pump Output of the oil hand pump Dimensions: Weight of empty trailer:

45 litres 150 litres 60 litres 25 litres per min. 0,5 litre per min. 3 200×1 880×1 700 mm 1 000 kg

slow vehicles need not run to distant depots for refuelling

1076 Stationary Oil Tank

Used for storing and controlled delivery of oils into cans.

Tank capacity
Maximum output of the hand pump at 30 double-strokes
Rated pressure
Dimensions: 400 litres 15 litres per min. 6 atm. 800×750×1 453 mm 110 kg

Provides economic storing of smaller quantities of oil in engine rooms and controlled oil delivery.

1077 Mobile Oil Tank

Designed for small delivery of oil in engine rooms, etc.

Oil tank capacity

Maximum output of the hand pump at 30 double-strokes
Rated pressure
Dimensions:

Weight:

150 litres
6 atm.
6 atm.
880×700×1
130 kg t 15 litres per min. 6 atm. 880×700×1 300 mm 130 kg

Facilitates the delivery of oils to engines, etc. and serves for oil metering. Used with the oil rinsing wagon it serves for refilling of gearboxes, etc.

STROJEXPORT

1078 Mobile Oileconom Pump with flow meter used for filling or cans with lubricating oils, etc.

Tank capacity Output Dimensions: Weight:

150 litres 0,5 litre per rev. 600×500×1 250 mm 85 kg

Facilitates storing of lubricating oils and their delivery to lubricators, cans, etc.

1079 Oileconom Oil Piston Hand Pump

designed for metering and delivery of small quantities of lubricating oils, etc. from barrel into cans at a rate of $\frac{1}{2}$ litre per rev.

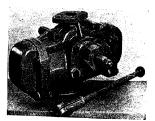
Output Number of revolutions Dimensions: Weight:

0.5 litre per rev. 30 litres per minute 250×1 250 mm 20 kg

1080 Piston Hand Pump for fuel, etc.

Intended for delivery of small quantities of liquids from barrels into bottles, cans, etc.

Maximum output at 30 doublestrokes 15 litres per min. Dimensions: 280×250×250 without hose Weight: 19 kg without hose



1081 L-300 Flow-Meter for liquid fuels, etc.

Motor or gravity fuel feed. One-way system.

Minimum metered delivery; Metering accuracy: Maximum flow: Rated pressure: Output per revolution: Dimensions: Weight:

100 litres per min. 0,5% of 500 litres per min. 5 atm. 1,25 litre 300 ×280 ×370 mm - Dia. 50 32 kg

1082 L-600 Flow-Meter for liquid fuels, etc.

Motor or gravity feed. One-way system.

Minimum delivery: Metering accuracy: Maximum flow Rated pressure: Dimensions: Weight:

100 litres per min. 0.5% 600 litres per min. 6 atm. $360\times340\times420$ mm - Dia. 80 48 kg

The simple design of type L flow-meters ensures long life and smooth operation.

A 5 cm difference in locate is successful to the simple design of type L flow-meters ensures long life and smooth

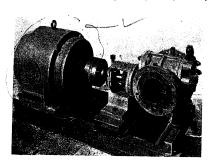
A 5 cm difference in levels is sufficient to put the flow meter into operation. Minimum metering accuracy \pm 5%.

110

STROJEXPORT

1083 PZu 10 Geared Pump

Designed for pumping of pure viscous liquids, such as lubricating oils, grease, etc. up to 80 $^{\circ}\text{C}-50$ $^{\circ}\text{E}.$ Maximum capacity Q -10 litres per min., 5 atm., 1 400 r. p. m.



1084 PZu 250 Geared Pump

Designed for pumping of pure viscous liquids, such as oils up to 80 °C — 300 °E. Maximum output 250 litres per min., 10 atm., 930 r.p. m. Available for a capacity of 8 to 250 litres per min., up to 10 atm.

Diameter of branches: 25, 32, 40, 80 and 100 mm.

1085 ZUS 150 Geared Pump

Designed for pumping of pure viscous liquids, thick oils, tar and syrups from 50 $^{\rm vE}$ onwards to 100 $^{\rm vC}$. Maximum. output 630 litres per min. 5 atm. 190 r. p. m. Also available in diameters: 50, 65, 80, 100 and 125. Capacity from 100 to 630 litres per min. Diameter of branches: 50, 65, 80, 100, 125 and 150 mm.

1086 AL 32/I-KFE One-stage Self-priming Pump

designed for pumping clean water.

Maximum output 80 litres per min., 10 metre water column, 1400 r.p.m.
Available for a capacity of 30 to 120 litres per min.
H—10—97 metre water column.
Dlameter of branches 32 and 40 mm.

1087 PD 40/3-S Three-stage Self-priming Pump

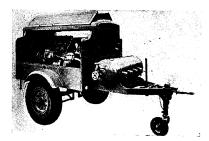
for pumping of pure, volatile and inflammable liquids of a maximum viscosity of 5 ¹²E, temperature 40 ⁹C, maximum output Q 100 litres per min., 1 400 r. p. m., diameter of branche: 40 mm. Series PD self-priming pumps are available for outputs from 100 to 180 litres per min., delivery head 15—42 metres of water column, 1 400 r. p. m. Diameter of branches 40 and 50 mm.

PDV 32/1 Vertical One-stage Self-priming Pump

for pumping of pure liquid fuels of a maximum viscosity of $5\,^9\mathrm{E},$ max. temperature $40\,^9\mathrm{C}.$ maximum output Q 30 litres per min. 2 atm., $1\,400$ r. p. m. Diameter of branches 32 mm.

PA 80/1 One-stage Self-priming Pump

for pumping of pure volatile liquids, maximum viscosity $50\,^{\circ}\text{E}$, maximum temperature $40\,^{\circ}\text{C}$, maximum output Q $550\,^{\circ}$ litres per min., delivery head $80\,^{\circ}$ metres of water column, $1400\,^{\circ}\text{C}$, p.m. Series PA self-priming pumps are available for outputs of $550\,^{\circ}$ litres per min., maximum delivery head $80\,^{\circ}$ metres of water column, $1400\,^{\circ}\text{C}$, p. m., diameter of branches $80\,^{\circ}\text{mm}$.



1091 1092

1093 DK-2, EK-2, DK-4-R Mobile Compressors

Compressors for pneumatic tools, such as hammers, drills and other pneumatic appliances. Used in the building trade, for railroad and road building, quarries, mines, etc.

	DK-2	EK-2	DK-4-R
Working pressure	7 atm.	7 atm.	
Speed	1 000 r. p. m.	930 r. p. m.	7 atm.
Number of stages	2	o p. m.	1 250 r. p. m.
Sucked volume	3,7 cu. m. p. min.	3,53 cu. m. p. min.	9,2 cu. m. p. min.

1094 V-4-C-1600 Compressor

High-pressure compressor set of excellent design. Careful manufacture, assembly and through shake down tests ensure trouble-free and reliable operation.

Sucked volume Working pressure Number of stages Drive	85 cu. metres per hour 30 atm.
Speed	28 kW
	960 r. p. m.

112

STROJEXPORT

DIESEL ENGINES and DIESEL SETS! ŠKODA · SLAVIA · LORENZ



Reliable in operation - minimum fuel consumption - small operating expenses long life - favourable purchase price. Supplied in various designs with output from 5 to 2000 HP as stationary, portable, mobile and marine engines.

Supplied exclusively by: STROJEXPORT

PRAHA - CZECHOSLOVAKIA



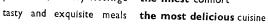
the newest aircraft on international long-distance flights

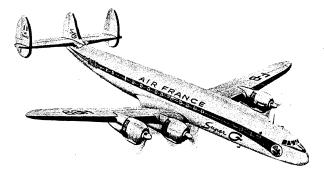
maximum speed: 371 m.p.h.

range: 4,200 miles the longest non-stop flight the fastest speed

petrol capacity: 7,750 gallons practical, luxury fittings

the greatest safety the finest comfort





AIR FRANCE

SPECIALIZES IN LONG - DISTANCE FLIGHTS

1095 R 200 Rotary Compressor

Used as compressor or air pump if inversely connected to the piping. Especially designed for conservancy trucks. Easy-to-operate. Aircooled.

Volume of sucked air at overpressure

water column metres	atm.	sucked volume in cu. metres
25 20	2,5	per hour 220
10	2	230

Volume of sucked air at under-pressure

water column metres	atm.	sucked volume in cu. metre	
5 8	0,5 0,2	per hour 190 120	
9	0.1	120	

1096 K-1-S-1000 Compressor

Used for spraying of paints and lacquers, inflating of tyres and various air appliances.

> Sucked volume Working pressure Electric motor 28 cu. metres per hour

1097 P-1-EKO Compressor

Used for inflating tyres and various air appliances.

5,5 cu. metres per hour 6 atm. 0,55 kW

1098 3 DSK 350 Compressor

For a wide range of application in industry. Stationary type with a Diesel engine or electric motor on a common base frame.

Sucked volume of air Working pressure Electric motor Diesel engine

1 600 cu. metres per hour 8 atm. 170 kW 230 H. P.

$1099\sqrt{36}$ cu. metre Filling Compressor

Sucked volume End pressure

36 cu. metres per hour 35 atm.

1100 4.8 cu. metre Filling Compressor

Used for filling of steel cylinders for starting of Diesel engines. Vertical, stationary type.

Sucked volume End pressure

4,8 cu. metres per hour 35 atm.

STROJEXPORT

1111 MACROPHOS 250 Industrial X-Ray Unit

serves for non-destructive examination of coarse structure materials.

Mains voltage Maximum input Output X-ray intensity

3-phase, 220/380 V, 50 c/s 10 kVA 20 mA according to the X-ray tube up to 100 mm for steel up to 80 mm for copper

UNIPOLAR 150 Industrial X-Ray Unit

designed for the radiographic examination of light metals, plastics, wood. rubber, etc.

> Mains voltage Mains voltage
> Maximum operating voltage
> X-ray intensity for steel
> Approximate weight of the cabinet

MONTIX A 200 Industrial X-Ray Unit

for taking radiographs of steel up to 70 mm in thickness

Output of the apparatus Maximum thickness of steel
Mains voltage
Net weight

220 kV, 10 mA 220 kV, 10 mA 70 mm 3-phase 380/220 V, 2 kVA 280 kg

1121 Structure Comparator SK 1

Designed for fast structure examination of ferromagnetic materials.

Mains voltage Approximate current consumption Dimensions Weight

320×340×220 mm

1122 Automatic Vertical AV-400 Electromagnetic Crack Detector

Maximum output
Mains voltage
Maximum clamping length
Maximum cross-section

7 kVA 220/380 V, 50 c/s 400 mm 25 sq. cm

Inkar Horizontal Electromagnetic Tester I H 400 1123

Input
Clamping length
Max. test cross section
Operating Voltage

114

7 kWa 0-400 mm 40 sq. cm 3×380/220 V, 50 c/s

Used for ascertaining of defects and cracks in ferromagnetic material by nondestructive method.

STROJEXPORT

JAWA-CZ is the trade-mark of the motor-cycles which are conquering the world. Detailed information on these machines is regularly to be found in the illustrated monthly CZECHOSLOVAK MOTOR REVIEW.

1124 Electromagnetic Weld Tester ZS 500

Designed for the examination of welds by a. c. and hand electrodes by means of the flow method.

Mains voltage Input Circular magnetization Dimensions Weight

220/380/500 V, 50 c/s 5,5 kVA 500 A 400×530×380 mm 70 kg

1131 Selenium Rectifier controlled by a magnet, amplif., 60 V, 45 Λ

This rectifier is employed, as a d. c. source, for charging of telephone batteries, or as a feeder.

1132 RP Mercury Rectifier

120 V, 80 A, for charging of mine lamps. Dimensions $1050\times950\times2000$ millimetres.

1141 Torsion Oscillation Recorder

This apparatus can be axially mounted to the free end of the crankshaft. During the rotary movement of the apparatus the housing of the recorder with a permanent built-in magnet, strictly follows the movement of the shaft (i. e. the rotary and superimposed oscillation movement) while the local system of the recorder consisting of a pivoted unsprung coil, uniformly rotates.

The relative curve deviations in the magnetic field induce currents in the coil corresponding to its speed, of a frequency similar to that of the recorded oscillation. The induced electric impulse is transmitted to the rings of the recorder, and by means of copper brushes, passes

of the recorded oscillation. The induced electric impulse is transmitted to the rings of the recorder, and by means of copper brushes, passes from the rotating mechanism to the recording device.

Loop or cathode oscillographs with series-connected integrating circuit are used for recording. The recorded oscilation can also be electro-analyzed by means of an analyser and the magnitude of the individual harmonics ascertained, if frequency and accurate resonance spectrum should be determined. spectrum should be determined.

The recorder is suitable for usual measurements of torsion oscillations of a frequency of 1500-2000 oscillations per minute, up to 4000 r. p. m.

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.

STROJEXPORT

In all continents, in all countries with a progressive and mature technology the SKODA and TATRA makes have been known for many decades past.

1142 Ultrasonic Defectoscope

By means of this ultrasonic apparatus defects and thicknesses of various parts can be ascertained which are accessible from one side only. The apparatus is suitable for industrial and laboratory use. It can also be used in engineering and chemical works, power plants, transport, etc. It is portable and its manufacture is not expensive.

According to the latest methods materials are tested by means of X-ray, gamma-ray or ultrasound devices. The latter method is preferred because of its versatility and speed. It is not harmful to the

operator's health.

Though the prototype of this apparatus has not reached the quality of West-German apparatus, it is six times better than similar devices

1151 1000 A, 9 V or 500 A, 9 V Galvanizing Sets

Improved design. Larger vertical galvanizing sets will be shortly manufactured.

1161 Type M 011 Electric Spark Generator

By means of the generator the air-tightness of novodur, rubber, umaplex and other insulating materials can be tested. The slightest craks in the insulating coating are discovered and serious future damage is prevented.

age is prevented.

The electric spark generator consists of two sections.

Approximate weight 4 kg. Maximum length of H. F. spark 50 mm.

The generator can be connected to the 220 V or 24 V (by means of a transformer) mains. It is supplied in a portable leather case and especially designed for chemical and other works.

Dimensions Dimensions of handle Extending bars

250×200×200 mm

50 mm in dia., length 400 mm 3 pces., 550 mm each, 20, 25 and 15 mm in dia.

Jawa-ČZ motor-cycles and SKODA and TATRA motor cars are extensively exhibited at international fairs and industrial fairs all over the world.

STROJEXPORT

TECHNOEXPORT

LIST OF TECHNOEXPORT PRODUCTS

Sugar Mills Electrical Equipment of Heavy Machines **Electric Power Plants** Refrigerating Equipment **Water Power Plants** Equipment of Ships Steam Turbines and Steam Power Plant Equipment Air Treatment Plants Chemical Purification Equipment Steam Boilers Cement Mills Electric Switchboards **Rubber Factory Machines** Scrap Cutting Shears (Rolling Mills) Mixer for Various Applications Condensing Turbine

In all continents, in all countries with a progressive and mature technology the SKODA and TATRA makes have been known for many decades past.

1142 Ultrasonic Defectoscope

By means of this ultrasonic apparatus defects and thicknesses of various parts can be ascertained which are accessible from one side only. The apparatus is suitable for industrial and laboratory use. It can also be used in engineering and chemical works, power plants, transport, etc. It is portable and its manufacture is not expensive.

According to the latest methods materials are tested by means of X-ray, gamma-ray or ultrasound devices. The latter method is preferred because of its versatility and speed. It is not harmful to the

operator's health.

Though the prototype of this apparatus has not reached the quality of West-German apparatus, it is six times better than similar devices

1000 A, 9 V or 500 A, 9 V Galvanizing Sets

Improved design. Larger vertical galvanizing sets will be shortly manufactured.

1161 Type M 011 Electric Spark Generator

By means of the generator the air-tightness of novodur, rubber, umaplex and other insulating materials can be tested. The slightest craks in the insulating coating are discovered and serious future damage is prevented.

age is prevented.

The electric spark generator consists of two sections.

Approximate weight 4 kg. Maximum length of H. F. spark 50 mm.

The generator can be connected to the 220 V or 24 V (by means of a transformer) mains. It is supplied in a portable leather case and especially designed for chemical and other works.

Dimensions Dimensions of handle Extending bars

250×200×200 mm

50 mm in dia., length 400 mm 3 pces., 550 mm each, 20, 25 and 15 mm in dia.

Jawa-ČZ motor-cycles and SKODA and TATRA motor cars are extensively exhibited at international fairs and industrial fairs all over the world.

TECHNOEXPORT

LIST OF TECHNOEXPORT **PRODUCTS**

Sugar Mills **Electrical Equipment of Heavy Machines Electric Power Plants** Refrigerating Equipment **Water Power Plants Equipment of Ships** Steam Turbines and Steam Power Plant Equipment Air Treatment Plants Chemical Purification Equipment Steam Boilers Cement Mills Electric Switchboards

Rubber Factory Machines Scrap Cutting Shears (Rolling Mills) Mixer for Various Applications Condensing Turbine

116

STROJEXPOR



1201 Semi-Automatic Horizontal Centrifugal, 1000 mm dia.

Used for the intermittent centrifuging of all kinds of lyes containing crystalline and grainy substances. Driven by an electric motor of explosion proof design for localities with degree 2 of explosion hazard in accordance with Standard Specifications.

Polymerization Unit

The 12 cu metre polymerization unit consists of a vertical cylindrical vessel of an inside diameter of 2364 mm with a domed bottom, a tapered transition piece (a single welded unit) and an upper flat, removable cover. Inside are fitted a system of cooling tubes and a frame type stirrer directly driven from a gear box. On the transition piece and over the necessary branches are fitted. The 12 cu metre polymerical conditions. merization unit is made for the following operating conditions:

Operating pressure in vessel 8 atm. g. (test pressure, water 12 atm. g., air 8 atm. g.)

Operating pressure in cooling jacket 3 atm. g. (test pressure, water 4.5 atm. g.)

Operating pressure of system 3 atm. g. (test pressure, water 4.5 atm. g.)

Operating pressure of system 3 atm. g. (test pressure, water 4.5 atm. g.)

Operating temperature +5 °C to +10 °C

Specific gravity of operating medium 1.0

Viscosity of operating medium 250 santiquaz

Speed of stirrer 48 r. p. m.

1203 Cane milling station of 12 rollers

consists of 1 three-roller cane crusher 28 × 56" and 3 three-roller mills 28 × 56" of approved SKODA type including 3 intermediate bagasse carriers between the mills. The sheats of the rollers are of a special coarse grained cast iron of best quality, the shafts are forged of steel of a tensile strength of 50—60 kg/mm². The rollers are provided with scrapers with dismountable knives of a special steel.

The upper scraper moves according to the movement of the upper rolller, the scraper of the cane roller is fastened on an adjustable bagasse bridge of cast steel.

TECHNOEXPORT

Cane cutter dia. 48" x56"

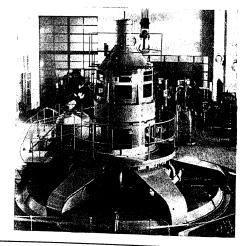
is provided with a plate cover and two flywheels equalizing the ir-

Three-Phase Vertical Water Wheel Alternator, Type HV 6445/20, 1221

Open Design, for Direct Coupling to Kaplan Water Turbine

Rated capacity Power factor Rated frequency Rated voltage Rated current Regulating range of voltage Regulating range of voltage
Rated speed
Runaway speed
Connection of stator phases
Number of ends of winding brought out
Rated output of exciter
Rated voltage
Rated current
Rated speed

1 250 kVA 0,8 50 cycles 6:300 Volts 114 Amps. \pm 7 % 300 r. p. m. 788 r. p. m. Y 26 kW 110 Volts



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. Portuauese and French. ish, Portuguese and French.

1222 Current Transformers

Current transformers are intended for the feeding of ammeters and of the current coils of measuring, recording and protective instruments. Their primary winding is connected in series with the very high voltage circuit (with the line) the current of which is measured and therefore their operating properties as series transformers are different from power transformers and voltage transformers.

1223 Voltage Transformers

Voltage transformers are intended for the feeding of voltmeter and of the voltage coils of measuring, recording and protective instruments. Their primary winding is connected between a phase conductor and earth so that a voltage transformer acts as a normal power transformer with the difference that its short circuit voltage is low and the transformation is done with a small voltage error defined in advance. defined in advance.

1224 Three-Phase Concrete Reactor

Concrete reactors are choke coils without an iron core. They are used to limit short circuit currents.

Rated voltage Rated current Frequency

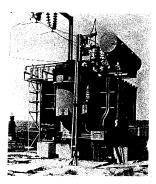
6 000 Volts 5 % 600 Amps. 50 cycles

1225 Arc Extinguishing (Petersen) Choke Coils

with infinite Variation

Used for earth current compensation in L. T. circuits. Design: Oil Immersed, for outdoor and indoor erection. Specification:

Rated voltage Rated current Rated frequency Rated range



23 000/3 kV 800 kVA 50 cycles 6 to 60 Amps.

1226 / Oil Immersed Tap Changing Transformer, Capacity 16/16/5 MVA

A transformer for a capacity of 16/16/5 MVA, 50 cycles, type 1 ER 29 M,

no-load transformer ratio $\frac{100\ 000\pm 8.22\ \%}{23\ 000/6\ 300}$ Volts, connection YyC/d 1/.

The tap changing equipment is connected in the fully insulated neutral of the 100 kV winding. Up to 80 % of the rated output the oil is cooled in radiators naturally, at higher outputs with a blast of air. The air blast is remote controlled by push-buttons from the control room or automatically.

Weight without oil Weight of oil Weight of transformer with oil

TECHNOEXPORT

TECHNOEXPORT

Air Blast Circuit Breaker VV 100/d

The type VV 100/d three-pole air blast circuit breaker is a high power circuit breaker, safe against fire and explosion, for a voltage of 110~kV. a rated current of 1~000~Amps. and a rupturing capacity of 3~000~MVA at a rated pressure in the air tank of 16~atm. g.

1228 Three-phase Synchronized Induction Motor, M 5649 S/16

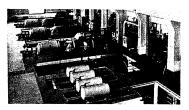
400 kW, 300 Volts, 117/89 Amps., 50 cycles, 375 r. p. m., efficiency 91,5 %, power factor 0,95 %, leading. Rotor: Induction operation: 1.060 Volts, 235 Amps. Synchronous operation: d. c. excitation, 34 Volts, 425 Amps. Overload capacity during synchronous operation 150 %, insulation of rotor winding: class »B«, of stator winding: class »A«. The exciter required has a capacity of 18 kW, 38 Volts, 475 Amps. The motor serves for the drive of type 4 DSK 450 piston compressors.



1241 Packaged Power Plant, Capacity 1500 kW

A packaged power plant is a complete equipment for the generation of electric power which is designed to make the minimum claims as regards erection, maintenance and operation. The equipment is divided into smaller transportable assembly units the size of which does not assembly un exceed the international truck section of RIC when loaded on common platform trucks. In view of the possibility of road transport individual units do not exceed the weight limit of 15 000 kg. The complete packaged power plant comprises:

- 1 boiler set
- 2 forced draught fans
- 2 induced draught fans
- 1 coal handling equipment
- 1 slag removing equipment
- 1 water treatment equipment
- 1 turbine-generator set



1251 / Air Turbo-Compresor, 15 000 cu metres

The turbo-compresor for refrigerating plants has a synchronous motor of an output of 1 800 kW with starting by an auto-transformer and a control switchboard.

The weight of the complete turbo-compressor is 12 tons, the floor space 24 sq. metres, the height 1,6 metres.

1252 V Ammonia Compressor, BV NH₃, 320/300

Gross refrigerating capacity Evaporating temperature Condensing temperature Output control

1 330 000 kcal per hour - 12 °C + 35 °C 100 to 40 %

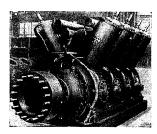
vertical, 8-cylinder uni-flow unit with cylinders arranged in a

Cast iron design, cylinders water cooled. Piston stroke 300 mm, cylinder

bore 320 mm.

Direct drive by synchronous electric motor of an output of 650 kW at 330 r. p. m. through flexible coupling.

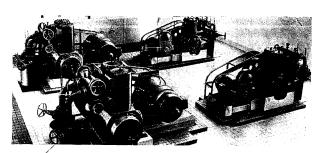
The compressor is intended for a constant output or fitted with automatic regulation.



122

TECHNOEXPORT

TECHNOEXPORT



1253 V Turbo-Compressor

Refrigerating capacity Evaporating temperature Inter-stage temperature Condensing temperature Condensing temperature
Propane pressure on turbo-compressor
suction side suction side Propane pressure on turbo-compressor delivery side Speed of turbo-compressor

1254 Birdsey Deep Freezing Cabinet

Used for the deep freezing of foodstuffs. Type of machine A 70-11, refrigerating capacity 26 500 kcal per hour at an evaporating temperature of -35 °C. Output of machine 3 000 to 5 000 kg of deep frozen foodstuffs in 24 hours of operation.

Vertical Spiral Casing Francis Turbine, Model F 20

The turbine is exhibited as a complete set including the spiral, the runner, the shaft and the drive, by means of gears, of the hydraulic governor pendulum. A noteworthy feature of the design of the turbine on display is the fact that the runner is built for the relatively high head of 162 metres and 375 r. p. m., a specific speed of 200 r. p. m.

Medium Size Trash Rack Cleaning Machines

This machine differs from small machines used in the past chiefly in the following points.

 a) Operation push-button controlled
 b) Travel to new cleaning position electrically operated

c) Operation from enclosed cabin

d) Trash raked up drops directly into rubber wheeled truck and is removed away from flushing channel

Maximum stroke of scraper
Minimum automatic stroke
Width of scraper
Electric drive
Angle of trash racks
Operating personnel
Maximum length of track of machine

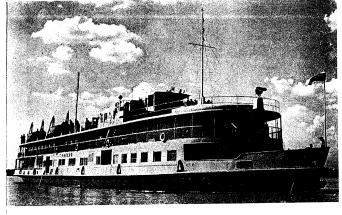
15 metres 2 metres 1 900 mm 380 Volts, 50 cycles 60 °C

1 900 000 kcal per hour

1,7 atm. abs.

13,1 atm. abs. 6 000 r. p. m.

Used for removal of leaves, weeds, twigs and drift ice.



D. C. Marine Generator, LM 8029-19

The generator is a source of power for the feeding of the main propeller motors and one generator may feed one propeller motor of a full output or two motors of half the output each.

Rated and continuous output Speed Voltage Foreign excitation by spe-cial exciter, type MLR 273 kW 550 r. p. m. 490 Volts cial exciter, type 1610 Efficiency 91,5 % with a tolerance of \pm 2 %

D. C. Propeller Motor, Type LM 8052-10

The motor is intended to drive a ship's propeller and is fed d. c. power from a type LM 8029-10 marine generator. It is designed for reversing duty.

mg duty. Rated and continuous output 250 kW, speed 240 r. p. m., voltage 487 Volts, foreign excitation 220 Volts, 22 Amps. by exciter type MR 2218. Efficiensy with tolerance $\pm~90.5~\%$.

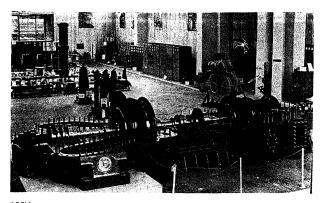
1273 Complete Shaft Guide, Type RR (Series III)

The shaft guide transmits, directly by its pressure and propeller shafts, the rotary movement from the gear box and the main Diesel engine to the propeller.

length 5 716 mm, weight 1 112 kg length 8 620 mm, weight 21 002 kg Pressure shaft diameter 175 mm, Propeller shaft diameter 180 mm, Propeller: Number of blades Diameter Pitch Weight of both complete shafts 2 000 mm

TECHNOEXPORT

TECHNOEXPORT



Steering Equipment of Passenger Ships

The steering equipment serves for steering the ships and for ensuring their safety.

Main components:

- The helm with electric and hand control of drive erected in the wheelhouse
 The steering transmission
 The steering engine with electric hand operation erected in the stern of the ship
 The steering gear erected in the stern of the ship
 The balanced rudder

De Luxe Stateroom on Third Deck 1275

The stateroom consists of: a drawing room, a bedroom, a bath room.

1281 Single Cylinder Condensing Steam Turbine, 4 000 kW, for Turbo-Generator Drive

Output on generator terminals Speed Operating steam pressure Operating steam temperature Circulating water temperature

4 000 kW 3 000 r.p.m. 35 atm. abs. 435 °C 30 °C

The turbine is of the reaction type with a two-row regulating stage.

1282 Steam Turbine, Type MD 550, for Boiler Feed Pump Drive

Output on turbine coupling Speed Operating steam pressure Operating steam temperature Back pressure

175 kW 3 000 r. p. m. 35 atm. abs. 435 °C 1,2 atm. abs.

1283 Steam Turbine, Type PC 550, for Pump Drive

Output on turbine coupling speed Operating steam pressure Operating steam temperature 40 kW 2 900 r. p. m. 8 atm. abs. 2 atm. abs.

1284 Oil Burner for Steam Boiler

Back pressure

A pressure oil burner for the burning of mazout of a calorific value of 9 600 kcal per kg, type TOH-6.

Output of burner Working pressure of mazout in nozzle Air pressure of burner

600 kg per hour 20 atm. g. 80 to 120 mm of water column

Diameter of nozzle at 20 atm. g. pressure 2,4 mm
Required viscosity of mazout in burner 1,6 to 2,8 °E

1285 Pressure Heating Station for Fuel Oil or Mazout

Output of station

2 600 kg per hour of fuel oil 42 °E 5,2 °E 1,8 °E 22 atm. g. 110 to 140 °C

Viscosity of fuel oil at 35 °C
Viscosity of fuel oil at 110 °C
Viscosity of fuel oil at 140 °C
Operating pressure of fuel oil
Heating from temperature of 35 °C to
Specific heat consumption for heating
of steam from 45 °C to 140 °C

0,125 kg of steam per kg of oil

1286 Oil Burner for Steam Automization for Rotary Cement Kiln

An oil burner with steam automization of fuel for a rotary cement kiln of an output of 100 tons of clinker in 24 hours. Type POH-RP-9.

Output of burner
Fuel oil of a calorific value of
Operating pressure of oil
Operating steam pressure
Steam temperature
Pressure of primary combustion air

900 kg per hour 9 300 kcal per kg 3 to 4 atm. g. 5 to 6 atm. g. 220 to 260 °C 220 to 260 °C 60 to 150 mm of water column 2 to 4,5 °E

Viscosity of oil in burner

1287 Fittings for Steam Turbine and Boilers

1288 Model of Steam Power Plant, Scale 1:50

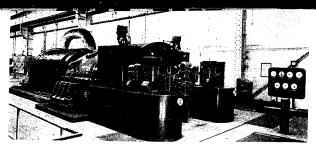
The model of the steam boiler represents a two-drum radiating heat boiler of a capacity of 130 tons per hour, a licensed pressure of 80 atm. g. and a superheat temperature of 500 °C. The model of the steam turbine represents a two cylinder type of condensing turbine with 4 bleeding points and a generator af o maximum capacity of 32 000 kW and a speed of 3 000 r. p. m., maximum live steam pressure 81 atm. abs., maximum live steam temperature 500 °C and circulating water temperature 27 °C.

1289 Casing with Thrust Bearing and Blades

Segment type thrust bearing, diameter 360 mm ,capacity 10 tons, 3 000 r. p. m., of latest patent design with increased operating reliability, permitting uniform distribution of rotor thrust between individual segments.

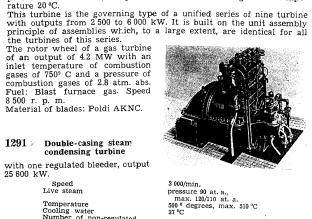
126

TECHNOEXPORT



1290 Condensing Turbine, Type AT 6

A turbine of a capacity of 6000 kW at 3000 r. p. m. with extraction of 35 tons of steam per hour at a pressure of 1,2 atm. abs. Steam inlet pressure 35 atm. abs., temperature 435 °C. Circulating water temperature 20 °C.



1291 Double-casing steam condensing turbine

with one regulated bleeder, output $25\,600\,$ kW.

Temperature Cooling water Number of non-regulated bleeders Regulated bleeder Adjustability

5 g at. a., 6 to 11, max. 100 t/h

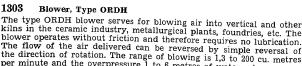
1301 1302

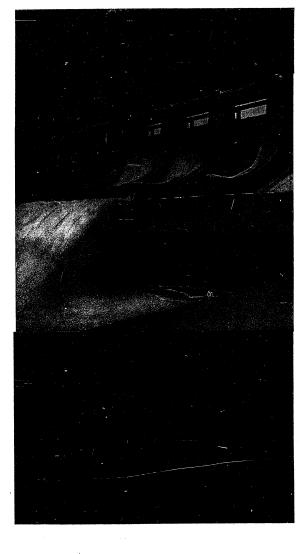
Fans, 1500 and 1400

Axial flow fans serve for the supply of air or other gases. They are used chiefly in the electric power industry, in mines and in dust extraction stations.

1303 Blower, Type ORDH

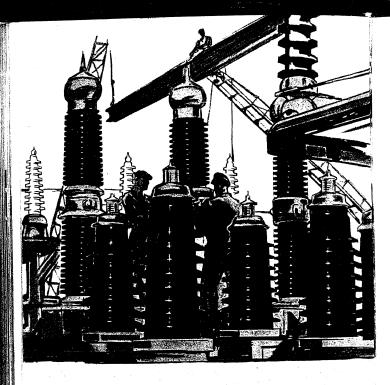
The type ORDH blower serves for blowing air into vertical and other kilns in the ceramic industry, metallurgical plants, foundries, etc. The blower operates without friction and therefore requires no lubrication. The flow of the air delivered can be reversed by simple reversal of the direction of rotation. The range of blowing is 1,3 to 200 cu. metres per minute and the overpressure 1 to 6 metres of water column.





128

TECHNOEXPORT



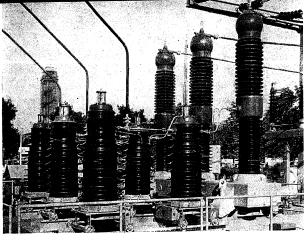
Electric engineering

ELECTROMOTORS, GENERATORS, TRANSFORMERS, HIGH FREQUENCY AND DIELECTRIC HEATING EQUIPMENT, ELECTRO-EROSIVE MACHINE TOOLS -WELL PROVEN PRODUCTS OF CZECHOSLOVAK ELECTRIC ENGINEERING INDUSTRY OF ČKD, ŠKODA, KŘIŽÍK AND MEZ TRADE MARKS

SOLE EXPORTER:

STROJEXPORT

PRAHA, CZECHOSLOVAKIA



1304 Band Filter

For the cleaning of air metal filters of various designs are used, with a layer of oil which binds dust.

Filters are supplied and manufactured for quantities from 10 000 to 40 000 cu. metres of air per minute at a resistance of 12 to 15 mm of water column. Rotary branch filters driven by a MEZ geared electric motor, 0,45 kW, 720 r. p. m., with a 1:31,5 reduction gear, i. e. 23 r. p. m., 220/380 Volts, with automatic humidification and removal of accumulated dust. accumulated dust.

Parapet Unit 1305

Parapet units are used for hot air heating and ventilation of larger halls, workshops, dining rooms, gymnasia and offices and wherever central heating cannot be used on account of the costly adaptation work involved.

work involved. The units are practically noiseless and are manufactured in three sizes of the following outputs:

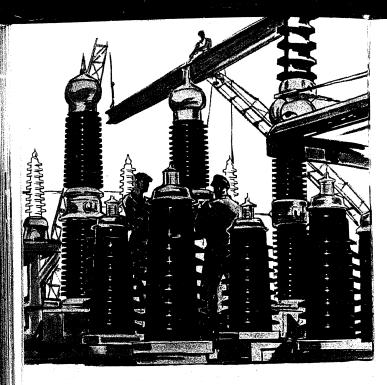
Size I of an output of 1 000 cu. metres of air per hour, weighing 160 kg
Size II of an output of 1 500 cu. metres of air per hour, weighing 170 kg
Size III of an output of 2 000 cu. metres of air per hour, weighing 185 kg

185 kg.

1306 UNEX Unit Dust Extractor

For spacious welding shops of steel structures, undercarriages, towers, boilers and other large welded parts on which the welder works standing, moving from point to point. Also suitable to extract dust directly from dusty points with the exhaust piping supplemented by a centrifugal separator, a pressure filter or a dust chamber.

TECHNOEXPORT



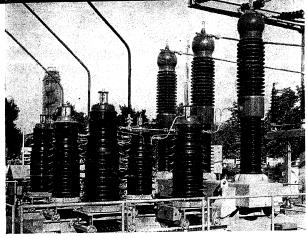
Electric engineering

ELECTROMOTORS, GENERATORS, TRANSFORMERS, HIGH FREQUENCY AND DIELECTRIC HEATING EQUIPMENT, ELECTRO-EROSIVE MACHINE TOOLS -WELL PROVEN PRODUCTS OF CZECHOSLOVAK ELECTRIC ENGINEERING INDUSTRY OF ČKD, ŠKODA, KŘIŽÍK AND MEZ TRADE MARKS

SOLE EXPORTER:

STROJEXPORT

PRAHA, CZECHOSLOVAKIA



1304 Band Filter

For the cleaning of air metal filters of various designs are used, with a layer of oil which binds dust. Filters are supplied and manufactured for quantities from 10 000 to 40 000 cu. metres of air per minute at a resistance of 12 to 15 mm of water column. Rotary branch filters driven by a MEZ geared electric motor, 0,45 kW, 720 r. p. m., with a 1:31,5 reduction gear, i. e. 23 r. p. m., 220/380 Volts, with automatic humidification and removal of accumulated dust.

1305 Parapet Unit

Parapet units are used for hot air heating and ventilation of larger halls, workshops, dining rooms, gymnasia and offices and wherever central heating cannot be used on account of the costly adaptation work involved.

The units are practically noiseless and are manufactured in three sizes of the following outputs:

Size I of an output of 1 000 cu. metres of air per hour, weighing 160 kg
Size II of an output of 1 500 cu. metres of air per hour, weighing 170 kg
Size III of an output of 2 000 cu. metres of air per hour, weighing 185 kg.

UNEX Unit Dust Extractor

For spacious welding shops of steel structures, undercarriages, towers, boilers and other large welded parts on which the welder works standing, moving from point to point. Also suitable to extract dust directly from dusty points with the exhaust piping supplemented by a centrifugal separator, a pressure filter or a dust chamber.

TECHNOEXPORT

Type VFD Industrial Vacuum Cleaner.

For the cleaning of floors and machines of dust, flying ashes, grinding dust, fibres and ashes in spinning, weaving and ready made clothing establishments of all kinds, production and assembly halls, establishments of the foodstuffs industry such as flour mills, bakeries, tobacco factories and storerooms, etc.

Finned air coolers serve for the cooling of air at a constant volume of water or with condensation of water vapour depending on the cooling water temperature or on the surface temperature of the finned surface temperature.

Plan of Air-Conditioning Equipment

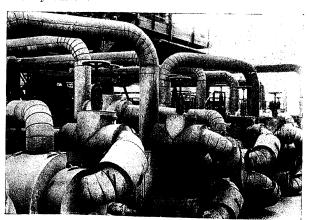
Illustrates the influence of a given kind of ventilation equipment upon the treatment of air in production establishments. By increased airing an increased productivity of work is achieved. Belongs among hygienic and sanitary equipment.

1321 Heat Exchanger, 1627 sq. metres

The heat exchanger is a cylindrical vessel of a diameter of 220 mm and an overall length of 11 200 mm. It consists of a shell of 10 mm thick plates to which 40 mm thick tube plates are welded. 25 mm dia. X 2 mm tubes are expanded into the tube plates. The shell is enclosed, at one end, by a flat bottom 16 mm thick, at the other end by a deeply domed bottom 12 mm thick.
Used in the chemical and petroleum industries.

1322 V Drum Type Channel Filter

OThis filter is used chiefly for the densification, dehydration and washing of cellulose. It is a rotary, drum type chamber filter for continuous operation.



1323 Ammonia Evaporator, 250 sq. metres

Serves for the evaporation of liquid NH_3 and, at the same time, cools water for the air cooler. Designed as a horizontal tubular unit of a diameter of 1 400 mm and an overall length of 5 870 mm. Inside is fitted a rigid nest of 640 tubes, 30 mm in dia. \times 2,5 mm, expanded into tube plates.

1324 Raking Crusher, Type MS 220

The crusher is designed as an axial-flow propeller pump with a cutting propeller. The cutting mechanism consists of the rotating propeller, an adjustable flat front knife fitted in front of it and a cutting grate fitted behind it. A ring with cutting edges is arranged around the propeller. propeller. The entire

The entire housing of the crusher is made of cast iron, the entire cut-ting assembly of alloyed and hardened steel. This ensures a maximum life of the machine. All machined parts are protected against corrosion by phosphating.

1325 Air Spray Nozzle

The air spray nozzle serves for injecting and finely dispersing gas into a liquid medium or for spraying a liquid mist into a gaseous

Quantity of air dispersed
Pressure loss in nozzle
Quantity of operating water
Pressure loss in nozzle
Quantity of air dispersed
Pressure loss in nozzle
Quantity of operating water
Quantity of operating water
Pressure loss in nozzle
Quantity of air dispersed
10 cm of water column
11 to se pre min.
12 to se pre min.
13 to se pre min.
14 to se pre min.
15 to se pre min.
16 tires per min.
17 to se pre min.
18 tres per minute
18 tres per m

column

Wire-Wound High Pressure Vessel

Wire-wound high pressure vessels are manufactured as replacements for forged vessels

for forged vessels. For the examination of the technology of the production process a vessel was designed with an inside diameter of 6000 mm, a length of 6000 mm, a pressure of 350 atm. g. and a temperature of $50\,^{\circ}\text{C}$, i. e. a vessel the parameters of which corresponded to operating dimensions. The principle involved is the winding of a strip 6,5 \times 65 mm in cross-section on a thin-walled core tube. The vessel will be tested to the destruction of the shell which will take place at approximately 1200 atm. g 1200 atm. g.

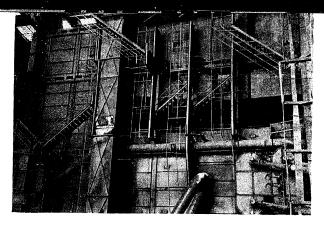
1327 Return Bends

The headers—return bends—on display are the components of a tubular system of furnaces in topping and vaccum distillation equipment for the processing of crude oil. They serve for the connection of 152 mm dia. tubes and operate at a pressure of 550 °C and a pressure of 100 atm. They are made of heat resisting alloy steel.

130

TECHNOEXPORT

TECHNOEXPORT



1341 ČKD Radiation Type Steam Boiler with Travelling 1342

Rated capacity 2,5 tons per hour, 12 atm. g., with steam dryer, for feed water temperature of 105 $^{\circ}\text{C}.$

Rated capacity of boller
Normal (economical) output of boller
Working overpressure
Working overpressure
Overpressure before feed head
Working feed water temperature
Heating surface of boller
Effective width of grate
Effective grate area
Fuel. brown coal dust
Efficiency of boller:
at rated capacity
at normal output

2.5 tons per hour 2.0 tons per hour 12 atm. g. 14 atm. g. 15 atm. g. 105 °C 80 sq. metres 1.2 metres 4.8 metres

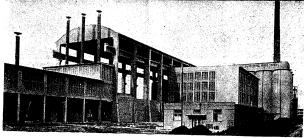
1351 HYDRANA Hydraulic Drive of Rotary Kilns

This hydraulic drive is intended for driving rotary kilns and similar rotary equipment. The type on display is built for an output of 66 kW at various speeds of the rotary kiln. A total of 11 different speeds is available, ranging from 0,08 to 0,97 r. p. m. and arranged in an arithmetical progression of a difference of 0,08 r. p. m. which, for all practical purposes, replaces infinite variation. It is supplied for practically all commonly used outputs. The density of control can be adapted to the given technological requirements by a combination of typified pumps and oil motors.

1361 Wall Mounted Unit Type Switchboard

The basic unit is a box ideally divided vertically into three parts of the net dimensions of 310×310 mm. The rated depths of the box are 200, 300 and 400 mm. The basic dimensions of the cover are 324×324 mm. In addition to that covers are manufactured with double, $1\frac{1}{2}$ times and half the width. The latter are, at the same time, flange

The rated currents of the bus bars are 200, 400 and 600 Amps.



1362 1363

Steel Sheet Desk Type Switchboard

Manufactured in several kinds and in a number of sizes

For normal localities (cover C) and dust-proof (cover F)
 Switchboards with 1 panel, built up of several panels and in the shape of a writing desk with legroom and a drawer
 For setting-up against a wall or accessible also from behind 4. With a flat top panel inclined at an angle of 10% with a superstructure with a mounting surface 300 mm high and inclined at an angle of 600 or with a high vertical superstructure with a mounting surface of 600×900 mm.

The rated dimensions of desk cabinets or panels are arranged in 200 mm increments. Width 600 to $1\,000$ mm, depth 400 to $1\,000$ mm, height in front 850 mm. The width of switchboards in the shape of a writing desk is $1\,800$ to $3\,000$ mm.

1371 Five-Roll Calenders

The machines are used for rolling rubber strips, plain as well as with patterns, for the manufacture of all kinds of rubber footwear. The machine is a five-roll unit for rolling plants and ready-made shoe shops producing "faxing".

Maximum thickness of strip roll Maximum width of strip rolled Output of machine

Steam and cooling water pressure Steam consumption per hour

12 mm 380 mm 2,7 to 6,6 metres per minute 1 to 3 atm. g. 11 kg

1372 V Simple Short Worm Extrusion Machine, 125 mm dia.

The extrusion machine is used for the extrusion of material by a worm rotating in a bush. The material is extrusion of material by a worm rotating in a bush. The material is extruded through a die of the required shape which it keeps when it passes through the die. The extrusion on these machines is done in endless lengths in the shape of tubes, bars and various other cross sections.

Diameter of worm 125 mm 800 mm Speed of worm, maximum - minimum 13-38 r. p. m. Electric motor II to 14 kW/960 r. p. m. Input of heater element of extrusion head Quantity of material worked

300 Watts (1 to 3 pcs) 40 to 250 kg per hour

132





1373 Three-Roller Grinding Machine Type KA 600

The scope of application of the machine is very wide in the paint industry for the grinding of paints and similar substances and in the chocolate industry for grinding chocolate and also generally in the chemical and foodstuffs industries and wherever liquid and semi-liquid substances have to be ground and completely homogenized in large quantities. large quantities.

Diameter of rollers Input of electric motor Quantity of material worked

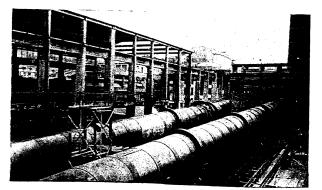
400 mm 16 to 18 kW 200 to 300 kg per hour

1374 \checkmark Single-Roller Grinding Machine with 320 mm dia. \times 650 mm Roller, Type 01052

The machine is intended for rough grinding and final grinding of oil photo-gravure, nitro-cellulose, synthetic, chlorine-rubber and printing inks, paints, enamels. Indian inks and similar substances in a liquid and semi-liquid state. The machine can be used for the purification of these substances, since the grinding ruler does not pass any foreign fibrous bedies into the ground substance.

Diameter of roller Working length of roller Input of electric motor 4 kW 100 to 250 litres per hour

100 to 250 litres per hour



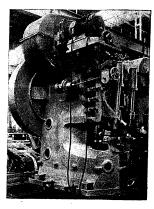
1381 Scrap Cutting Shears

Rated cutting force
Number of cuts per
minute
Length of knives
Maximum
dimensions
Tensitic extensity

1000 mm
145 mm
0
mm
Tensitic extensity
130 mm Tensile strength

22 1 000 mm 145 mm dia. 50 kg per sq. mm

35 mm 🔞



Transmission gearing with built in pinion stand of a normal output 400 kW, max. output 800-900 kW, for four-high rolling mill.

Winding equipment provided with expansible winding drums, supporting turnable bearings with pneumatic pressing on of the coils on the drum, with shifting device for removing of the coils, driven by a reversible DC electric motor of an output $540~\mathrm{kW}.$

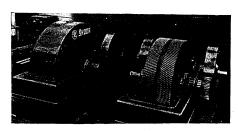
Speed DC electric motor of an output control

Mixing Machines, Type MVM 13

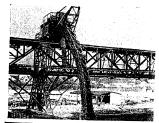
The type MVM 13 mixing machine is particularly suitable for mixing and kneading materials under rather heavy duty conditions.

Useful capacity

400 litres



TECHNOEXPORT







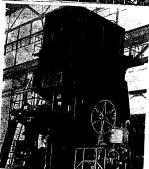
Models

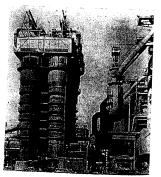
1386











MOTOKOV

LIST OF PRODUCTS SUPPLIED BY MOTOKOV:

Passenger Cars
Motorcycles and Accessories Car
Equipment
Machine Tools for Wood
Trucks and Special Purpose Vehicles
Tyres and Rubber Goods
Farm Machines and Implements
Tractors
Farm Machines and Implements
Aircrafts and Accessories
Trolleybus
Household Accessories

13

TECHNOEXPORT



$\boldsymbol{1401}$ ŠKODA 440 Export

The ŠKODA 440 Export

The ŠKODA 440 passenger car is the latest model of the ŠKODA passenger car - Export type in this case.

Technical data: Swept volume 1809 c. c., number of cylinders 4; power output 40 HP at 4200 r. p. m., fuel consumption 8 lit/100 km or 35.3 miles p. g., number of seats 4, peak speed 115 km p. h. or 71.5 m. p. h.

Car dimensions:

1 600 × 4 065 × 1 430 mm,
fuel tank capacity 30 litres or
6.6 Imp. gall.

1402 ŠKODA 440 Standard
Standard model of ŠKODA 440
passenger car.
Technical and performance data
equal to those of Export Model.

1403 ŠKODA 440 Chassis

1403 ŠKODA 440 Chassis Chassis of ŠKODA 440 Passenger Car.



ŠKODA 1201 Ambulance Car

 ${\tt \check{S}KODA}$ 1201 ambulance car - emergency car for speedy transport of

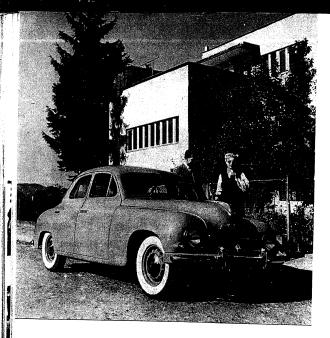
SKODA 1201 ambulance car - emergency car for speedy dansport of patients.

Technical data: Swept volume 1 221 c. c., number of cylinders 4; power cutput 45 HP at 4 200 r. p. m. fuel consumption 10.5 lit/100 km or 27 m. p. I. g., carrying capacity 2+1 stretchers; peak speed 110 km or 68.4 m. p. h.

Car dimensions 4 550 × 1 680 × 1 600 mm,

Fuel tank capacity 35 litres or 7.7 Imp. gall.

MOTOKOV



ŠKODA 1201 Estate Car (Station Wagon)

Technical and performance data equal to those of ŠKODA 1201 Ambulance Car with the following differences:

Carrying capacity: 4 to 5 passengers + 250 kg payload,

2 passengers + 500 kg payload.

Dimensions, overall: 4360×1690×1580 mm.

1406 šKODA 1201 Delivery Van

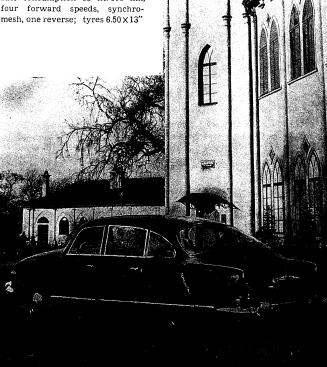
Model ŠKODA 1201 delivery van; technical data identical to those of ŠKODA 1201 Ambulance Car with the following differences: Carrying capacity 2 passengers + 500 kg paylcad. Dimensions, overall: 4360×1690×1580 mm.

šKODA 1201 Sedan 1407

The ŠKODA 1201 Sedan passenger car has the following technical data. Swept volume 1221 c. c., number of cylinders 4, power output 450HP at 4200 r. p. m., fuel consumption 8 to 9 lit/100 km or 31.4 to 35.3 m. p. I. g., number of seats 4 to 5; peak speed 115 to 120 km or 71.5 to 74.8 m. p. h., overall dimensions 4500×1690×1520 mm.

MOTOKOV

1408 Tatra 603 Six seater passenger car; powered with an air cooled, four stroke, 8 cylinder Vee engine, rear fitted. Swept volume 2 550 c. c., power output 90 HP at 4500 r. p. m., peak speed 160 km or 103.4 m. p. h., operating weight approx. 1 350 kg. fuel consumption 12 lit/100 km, four forward speeds, synchromesh, one reverse; tyres 6.50 × 13"



1409 Jawa-ČZ Motorcycle 250 c. c.

Model 353, two stroke, one cylinder, power output 12 HP at 4750 r. p. m., peak speed 105 km or 65 miles p. h., fuel consumption 3 lit/100 km at 50 km p. h. or 94 m. p. I. g. at 31 m. p. h., four speeds, automatic starting and gear shifting by means of a single lever, swinging rear fork

1410 Jawa-čZ Motorcycle 350 c. c.

Model 354, two stroke, twin cylinder, power output 16 HP at 4750 r. p. m., peak speed 120 km or 74.6 miles p. h., fuel consumption 3.25 lit/100 km at 50 km p. h. or 86.76 m. p. I. g. at 34 m. p. h., four speeds, automatic starting and gear shifting by means of a single lever, swinging rear fork.



1411 Jawa Motorcycle 500 c. c.

Four stroke, twin cylinder OHC, power output 28 HP at $5\,500$ r. p. m., peak speed 140 km or 87 m. p. h., fuel consumption 4 lit/100 km at 60 km. p. h. or 70.6 m. p. I. g. at 37.3 m. p. h., four speeds, automatic starting and gear shifting, swinging rear fork.



Jawa-ČZ 250 c. c. Competition Model

Special competition model (Six Days' Trial), power output 14 HP at 5 500 r. p. m., peak speed 120 km or 74.6 miles p. h.

Jawa-ČZ 350 c. c. Competition Model

Special competition model (Six Days' Trial), power output 18 HP at 4 750 r. p. m., peak speed 130 km or 80.8 miles p. h.

1413

1414 Motorcycle - Sectional View 1416 Engine · Sectional View

Scooter ČZ 175 c. c.

Model 501, power output 8 HP at $4\,750$ r. p. m., peak speed 88 km or 54.67 miles p. h., fuel consumption 2.6 lit/100 km at 50 km. p. h. or 80.8 m. p. I. g. at 31 m. p. h.

Jawa-ČZ Motorcycle 125 c. c.

Model 355, two stroke, one cylinder, power output 6.8 HP at 4750 r. p. m., peak speed 80 km or 50 miles p. h., fuel consumption 2 lit/100 km at 50 km. p. h. or 141 m. p. I. g. at 31 m. p. h., four speeds, starting and gear shifting automatic by means of a single common lever, rear fook swinging. fork swinging.



Jawa-ČZ Motorcycle 175 c. c.

Model 356, two stroke, one cylinder, power output 9.5 HP at 4750 r. p. m., peak speed 90 km or 56 miles p. h., four speeds, fuel consumption 2.3 lit./100 km at 50 km. p. h. or 122.6 miles p. I. g. at 31 m. p. h., automatic starting and gear shifting by means of a single common lever, swinging rear fork.



Competition Motorcycles

čZ 125 Motorcycle as special competition model, power output 6.5 HP to 5 100 r. p. m., peak speed 35 km or 50.3 m. p. h.

CZ 150 c. c. as special competition model, p. wer output 8.5 HP at 5 200 r. p. m., peak speed 95 km or 56.5 m. p. h.

CZ 175 as special competition model, power output 10.5 HP at 4 750 r. p. m., peak speed 105 km or 65.2 m. p. h.

MOTOKOV

ESO S 45 OHV Dirt Track Motorcycle

Power output 48.6 HP at 7500 r. p. m., compression ratio 14 to 1 (methylated spirit), power output 41 HP 7200 r. p. m., compression ratio 8.4 to 1 (80 octane petrol), maximum safe speed 8000 r. p. m.

ESO 350 B OHV Dirt Track Motorcycle

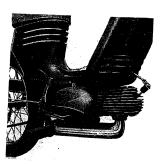
Compression ratio 9.2 to 1, power output 32 HP at 7800 r. p. m., maximum safe speed 8200 r. p. m.

1421 Twin Steering

Twin steering motorcycle for schooling.

1422 Service Shop Vehicle







Jawa-Pioneer Light Motorcycle 50 c. c. 1423

Model 550, two stroke, one cylinder, power output 1.6 HP at 5000 r. p. m., peak speed 45 km or 28 miles p. h., fuel consumption 1.5 lit/100 km at 25 km p. h. or 188 m. p. I. g. at 15.5 miles p. h.

1424 Three Historical Motor-

1426 Motorcycle Attachments

THE CENTRAL ASSOCIATION OF MANUFACTURING COOPERATIVES PRAHA

manufactures:

METALWORKING MACHINES

lathes, drilling and grinding machines

WOODWORKING MACHINES

band and circular saws, planing machines, thicknessing machines, drills for knots

BUILDING MACHINES

concrete mixers, asphalt kettles, asphalt sprayers

AGRICULTURAL MACHINES

grain-blowers, hay-blowers, ploughs including ploughs for shallow ploughing, cultivators

MACHINES FOR BAKERS

MACHINES FOR BUTCHERS AND SAUSAGE. MAKERS

TOOLS

MEASURING INSTRUMENTS

METAL FURNITURE

VARIOUS ARTICLES FOR HOUSEHOLDS. FARMS AND FACTORIES



Bicycles 1425

P1 Children's Bicycle P2 Children's Bicycle F11 Road Racing Bicycle F 7 Off-road Racing Bicycle K 2 Performance Bicycle K 2 Performance Bicycle B 2 Bicycle-ball Bicycle Sp 10 Boys' Bicycle Sp 10 Girls' Bicycle Sp 17 Sport Bicycle Sd 17 Sport Bicycle Tp 4 Touring Bicycle Td 4 Touring Bicycle Tp 5 Touring Bicycle Td 5 Touring Bicycle TD 6 Touring Bicycle Tp 6 Touring Bicycle
Tp-E9 Touring Bicycle
Td-E9 Touring Bicycle



1451 Škoda 706 R Truck

The Škoda 706 R Truck

The Škoda 706 R Truck is powered with a four stroke, six cylinder water cooled Diesel engine of 11.781 c. c. or 718 cu. in. swept volume; power output 135 HP/I 750 r. p. m., five forward speeds & one reverse; fuel consumption 30 lit./100 km or 9.42 miles per Imp. gal., oil consumption 0.8 lit./100 km or 353 m. p. I. g.; fuel tank capacity 150 lit. or 23 Imp. gal.; overall length 8 285 mm or 326", overall width 2 500 mm or 98", overal height of loaded vehicle 2 400 mm or 94.5", carrying capacity 7 300

2 400 mm or 94,5", carrying capacity 7 300 kg or 16,093 lbs, operating weight of vehicle 6 460 kg or 13,242 lbs.

1452 škoda 706 RS

Tipper The Škoda 706 RS Tipper The Škoda 706 RS Tipper has a four stroke, water cocled, six cylinder Diesel engine of 11,781 c. c., or 718 cu. in. swept volume; power output 135 HP at 1750 r. p. m., five forward speeds & one reverse, fuel consumption 30 lit./100 km or 9.42 miles per lum gall. oil conles per Imp. gall., oil consumption 0.8 lit./100 km or 353 m. p. I. g., fuel tank capacity 150 lit. or tank capacity 150 lit. or 23 Imp. gall.; overall length 7870 mm or 310", overall width 2500 mm or 98", overall height of loaded vehicle 2400 mm or 94,5". Carrying capacity 6500 kg or 14300 lbs, operating weight of vehicle 7260 kg or 16 000 lbs.





MOTOKOV

1453 Škoda 706 RO Chassis U

The Skoda 706 RO chassis of the with a four stroke, water cooled, six cylinder Diesel engine of 11781 c. c. or 718 cu. in. swept volume; power output 135 HP at 1750 r. p. m., five forward speeds & one reverse, fuel consumption 29 lit./100 km or 9.72 miles p. I. g., oil consumption 0.8 lit./100 km or 353 m. p. I. g., peak speed 68 km or 42 miles p. h., optionally can be increased to 86 km or 53 miles p. h.; overall length 10 058 mm or 396", overall width 2 500 + 50 mm or 98 + 2", operating weight 5 200 kg or 11 464 lbs, carrying capacity 8 800 kg or 19 400 lbs.



1454 Škoda 706 RO Bus

The Škoda 706 RO city Bus Bus is powered with a four stroke, water cooled six cylinder Diesel Engine of 11 871 c. o. o. 7718 of 11871 c. c. or 718 cu. in. swept volume; power output 135 HP at 1750 r. p. m., five forward speeds & one reverse; fuel consumption 29 lit./100 km or 9.72 miles per Imp. gall., oil consumption 0.8 lit./100 km or 353 m. p. g., peak speed 68 km or 42 miles p.

nally to 86 km or 53 m. p. h.; overall bus length 10 660 mm or 420", or 117"; operating weight of bus 8700 kg or 19 180 lbs, permissible payload 5 300 kg or 11 687 lbs.

škoda 706 RO Long Distance Car-Bus Technical data principally identical with those of City Bus.



146

1456 Tatra 111 R 1457 Truck

The Tatra 111 R Truck is powered with an air cooled, twelve cylinder Diesel engine of 14825 c. c. or 904 325 cu. in. swept vo-

904 325 cu. in. swept volume; power output 180 HP at 1800 r. p. m., four speeds forward one reverse, road and off-road ratio, front and rear wheel 7.06 to 8.08 miles p. I. gall.; fuel tank capacity 135 litres or 29.71 Imp. of vehicle 8 300 mm or 327″, overall width 2 500 mm or 98″, overall beight of unloaded vehicle 2 680 mm or 105″, with tarpaulin raised 3050 to 270 m mor 121 to 1.3.6°, carrying capacity, members of crew included 10 240 kg or 22 575 lbs, operating weight of vehicle 8 400 kg or 18 500 lbs.

1458 Tatra 111 S Tipper

The Tatra 111 S Tipper is fitted with a four stroke, air cooled, twelve cylinder Diesei engine of 14 825 c. c. or 904 325 cu. in. swept volume, power output 180 HP at 1800 r. p. m., four forward speeds, one reverse, road and off-road ratios, front and rear wheel drive, differential gear lock, fuel consumption 35 to 40 lit./100 km or 7,06 to 8.08 miles per Imp. gall., oil consumption 0.8 lit./100 km or 353 m. p. I. g., fuel tank capacity 135 lt. or 29,7 Imp. gall., overall length of vehicle 8 220 mm or 323.6", overall width 2 500 mm or 98", overall height 2540 mm or 100"; carrying capacity 10 240 kg or 22 575 lbs, operating weight of vehicle, crew excluded—approximately 8 960 kg or 19 753 lbs.

1459 Tatra 111 R Chassis

The chassis can be used for various bodies of special purpose vehicles. General technical data unaltered.

1460 V Tatra 111 R c/w turn table & DA 5 Trailer

Serves for transport of long timber. The length of the set corresponds to that of the transported timber.

Tatra 111 R Truck c/w 3 A 5 V Trailers

In this set full advantage has been taken of the properties of T 111 ${\tt R}$ as a towing vehicle.

1462 Tatra 111 N Truck c/w Power Winch

pull of winch cable 6 000 kg or 13 228 lbs; permissible max. front pull 4700 kg or 10 361 lbs; length of winch steel cable 60 metres or 197 ft.

1463 Tatra 111 C Motor Tanker

Serves for transport of fuels and oils; can be used for refuelling vehicle and aircraft tanks. Tanker capacity 7 000 lt, or 1541 Imp. gall.; output of Tanker pump 400 lt or 88 I. gall. per minute.

1464 Škoda 706 Road Sprayer

Serves for spraying water or other liquids the volume of which can be rationed according to the surface to be rolled or conditioned; suitable for gravel roads, for washing firm roads, for fire extinguishing purposes, for spraying trees and plants, for sanitation of every description.

Water tank capacity 6000 litres or 1321 Imp. gall., nominal output of pump at 8 kg/cm² or 114 psi:1600 lt or 352 i. g./min.

MOTOKOV

1465 Škoda 706 City Sprayer

Serves for spraying water the volume of which can be controlled, for washing firm runways, for fire extinguishing purposes, for spraying trees and plants as well as for sanitation of every description. Water tank capacity 6 000 litres or 1 321 Imp. gall., output of pump at 8 kg/cm² or 114 psi—1 600 litres or 352 Imp. gall. per minute.

1466 škoda 706 ROK

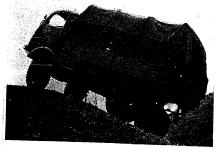
This vehicle serves for collecting dust and refuse. Dust drum capacity $10\ c.\ m.$ or $353\ cu.$ ft. The vehicle is fitted with an automatic dust bin shaker.

1467 A 3 V Trailer

It is a trailer of 3 metr. tons or 6 600 lbs capacity, suitable for light lorries.

1468 A 5 V Trailer

This trailer has a capacity of 5 metr. tons or 11 000 lbs. Suitable for heavy duty lorries.



1469 Tatra 805

Powered with an air cooled, eight cylinder petrol engine; swept volume 2500 c. c., power output 75 HP; pull 2400 kg carrying capacity 1.5 to 2.25 metr. tons.

1470 1471 Praga V3S

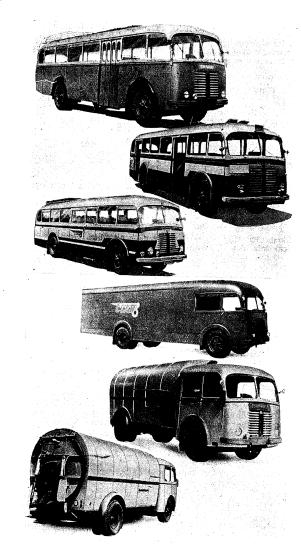
Praga V3S Truck and Van have common technical data: air cooled six cylinder Diesel engine of 7412 c. c. swept volume; power output 98 HP at 2100 r. p. m.; carrying capacity from 3500 to 5000 kg.

1472 Škoda 706 Furniture Van

It is a furniture van fitted to a Škoda 706 RO chassis with Diesel engine.

148

MOTOKOV



MOTOKOV

Motor Fire Engine fitted to Praga or V3S Chassis

Serves for fire extinguishing purposes, for transport of fire brigades with complete fire extinguishing equipment. The water pump is driven from the engine of the vehicle.

Pump output: Nominal water		lit./min.			Imp. gall./min.		
flow	vater 1 600	960	800		352	211	100
at deliver	y heigth,				002	211	176
m and geode	80 tic suctio	120 n	80	ft	262	394	262
heigt, m		1,5	7,5	ft		4.92	24 6

1474 Dung Cart

Fitted to Praga V3S chassis, has an engine of equal power output as that of Praga V3S.

Škoda 706 RP Bus

The Škoda 706 RP Bus is a single door city bus. Description and technical data identical with those of Škoda 706 RP City Bus.

1476 Škoda 706 RO Long Distance Bus

Škoda 706 RO Bus modified for long distance transport. Technical data identical with those of Škoda 706 RO City Bus.

Škoda 706 TR Tram-Bus

Powered with a water cooled six cylinder Diesel engine with direct fuel injection, giving a power output of 170 HP at 1850 r. p. m. Carrying capacity 9 300 kg, fuel consumption 25 lit./100 km or 10,7 m.

1478 Praga S5T

Praga Truck, fitted with an air cooled, six cylinder Diesel engine of 7412 c. c. swept volume; maximum power output 94 to 98 HP at 2100 r. p. m.; carrying capacity 5000 kg.

1479 Praga S5T Tipper

Technical data identical with those of Truck.

1480 Tatra 141

Tatra Road Tractor, powered with an air cooled, twelve cylinder Diesel engine; maximum road speed approximately 38 km p. h., offroad speed approximately 13 km p. h. Pull 100 000 kg.

150

MOTOKOV

1481 ŠKODA 906 R

ŠKODA Truck, powered with a water cooled, six cylinder Diesel engine of 135 HP power output at 1750 r. p. m; carrying capacity 9 300 kg.

1482 ŠKODA 806 RS

ŠKODA Tipper, powered with a water cooled, six cylinder Diesel engine of 135 HP output at 1750 r. p. m.; carrying capacity approximately 8000 kg.

1483 Tatra 137

New model of Tatra Truck, fitted with an air cooled, eight cylinder Diesel engine of 11760 c. c. swept volume; power output 145 HP at 1800 r. p. m., carrying capacity 7 metr. tons.

1484 Tatra 138

New model of Tatra Truck, having a carrying capacity of 12 metr. tons, powered with an air cooled, eight cylinder, Diesel engine of 11 760 c. c. swept volume; maximum power output 190 HP at 1800

1485 Tatra Dumpcar of 5 m³ capacity V

Prototype of new dumpcar fitted to Tatra chassis powered with an air cooled, twelve cylinder Diesel engine of 180 HP power output at 1800 r. p. m.; carrying capacity of dumpcar approximately 9 240 kg.

Mobile Motor Repair Shop

Set of three Praga V3S Vans; two trailers with van bodies and one electric power plant. Technical data of V3S vehicles identical with those of V3S Truck. This set will be found of advantage for standard and medium reconditioning of motor vehicles and automotive materials.

1487 Snow Plough

The snow plough is mounted on a crawler tractor and serves for the removal of snow at points where there are no large snowdrifts. It has a relatively high speed so that its daily capacity is high.

Library Bus

The library bus is a bus modified as a travelling library with a librarian's office and a small reading room. It serves for lending books and, as a travelling reading room, it drives into industrial plants or to places in the country where there are no libraries.

Jawa-ČZ motor-cycles and SKODA and TATRA motor cars are extensively exhibited at international fairs and industrial fairs all over the world.

1489 Mobile Dental Clinic

A bus modified as a small dental clinic with a small waiting room and a very well equipped dental office. It serves primarily for mass examinations of teeth in industrial plants where there is no dental clinic and in the country and also for minor dental operations.

Travelling X-Ray Office

A bus modified for the carrying out of X-ray examinations and taking of radiographs during mass examinations in industrial centres where the clinic is not equipped with X-ray apparatus and in the country.

Mobile Post Office

A bus specially modified as a mobile post office with an office for the post office employees. It takes over the mail at points where it would not be justified to open a permanent post office for a limited period because the demand for it is only temporary as is the case at times of exhibitions fairs etc.

1492 Television Car

A bus specially modified for direct television transmission of sporting events, cultural meetings, etc. It is fitted out with the most modern equipment for television reporting.

Broadcasting Car

A bus specially fitted out with the most modern equipment for the broadcasting of interesting sporting events, tape recording, direct transmission and other modern broadcasting equipment.

Mobile Sales Shop

A bus modified as a shop with an auxiliary store of goods ready for sale. Serves particularly for driving into industrial plants directly to the area of work of the employees and to the country for improving

HSC 4 Mobile Crane fitted to Tatra 111 Chassis

Carrying capacity of crane 4000 kg or 8818 lbs at a distance of 6 metres or 20 ft, and 2500 kg or 5511 lbs at a distance of 8.5 metres or 27.6 ft. Gross weight 12500 kg or 27557 lbs.

8 Tr Trolleybus

152

The trolleybus has 19 seats, 61 standing accommodations; maximum carrying capacity 6000 kg; motor of 120 kw power output, speed $1600\ r.\ p.\ m.;$ voltage $600\ V.$

1521 Sundry Equipment for Motorists

MOTOKOV

1531 Gumoide and Texgumoide (Rubberoide Fabric-Rubberoide)

Sealing and insulation plates are made in sizes 1150×650 mm and 1000×1000 mm or 45,3× 25" and 39,4×39.4", in natural colours, thickness from 0.5 to 50 mm or from .02 to 2". They are made either of hardened paper or of fabric and resins.

1532 Igelite Belts

Made of plastics in widths from 20 to 700 mm or from .8 to 27.6". in lengths from 1 to 100 metres or from 3.3 to 330 ft. The drive belts are designed for torque transmisson to various machines.

1533 Leather Belts

Used for power transmission to various machines. Made in widths from 20 up to 300 mm or from .8 to 12", thekness from 4 do 6.5 mm or from .16 to .25", length of maximum 120 metres or 394 ft.

1534 Igelite Separators

Made of polyvinylchloride, these plates are used in the production of storage batteries as separators between the electrodes. They can be made in dimensions according

Asbestos Plates (sheets)

1536 Asbestos Packings

Made of asbestos, cotton and hemp. Used as packings for steam engines and locomotives. Produc-ed in various sizes according to customer's wish.

1537 Armoured Hoses for Water Pumps

Made in sizes from 25 to 305 mm or from 1 to 12", length from 1.5 to 20 metres or 4.92 to 65.6 ft. The metal spiral (armour) is vulcan-ised, the colour scheme of the fabric plaiting is black or beige. Tested underpressure 8 metres or 26.25 ft water column.

Water Hoses for Cold

Made in sizes from 10 to 25 mm or from 4 to 1" n lengths per 25 metres or 82 ft, surface plain or fluted, colour black. Working pressure 6 kg/cm² or 85.34 psi, water tightness up to 40° C or 1040 F

Hoses for Torch Welding

Made in diameters of 6.8 and 10 mm or .236, .315 and .394", in lengths per 25 metres or 82 ft, surface plain or fluted, colour black. Working pressure 12 kg/ cm² or 170.67 psi, test pressure 36 kg/cm² or 512 psi.

1538 Flat Rubbercoated Fabric Belts

Produced in widths from 25 up to 1000 mm or from .984 up to 39.4"; with two up to ten fabric layers, edges cut or plied; colour black or beige, lengths per 100 metres or 330 ft. Suitable for driving various machines.

Rubbercoated Fabric Conveyor Belts

Produced in lengths per 100 metres or 330 ft, qualities according to customer's wish and to application. Serve for conveying coal in mines and for building materials.

1539 Fluted Mat

Made in coils of 1×10 metres or 3.3×33 ft in various patterns. To special order also coils of 1 yard width and 10 metres or 10,940 yards length can be produced. Used in motor industry.

1540 Tubeless Tyres

MOTOKOV

1541 Tubular Tyres

26×175" Full Width Tread

27×17 Criterion Treau
27×118 PBW and PBW Extra Special
27×114 Cross Country Full Width Tread
For use with dirt track and road racing bicycles.

Motorcycle Tyres

Produced in dimensions 26×2.25", 3.00—16", 4.000—19"; model Standard or Tropic, Tread pattern Sport, Polar. Motorcycle tyres having special racing tread pattern are also produced.

1543 Car Tyres

Made in dimensions from 4.00—13" up to 7.00—15" model Ideal; from 4.75—16.5 to 5.50—19" models Superb, Polar and Grip Standard or Tropic. Car tyres with white sides can be also supplied. Purpose: for passenger cars or various farm machines.

1544 Bantam Tyres

Made in sizes 12×4", 16×4", 4.00×8" for Scooters. The Bantam Tyres are fitted to various transport vehicles and will be found of great advantage everywhere where goods are conveyed to short distances. The Bantam Tyres save labour, provide for longer life of vehicles and protect the goods against shocks and jerks while on run.

1545 Tyres for Animal Traction

Made in sizes: 6.00 × 16" four four or six 160×18"/6

fabric layers) 30×5″/6 32×6″/8 170×20″/6 190×20″/8 210×20″/8 130 × 18"/4 150 × 18"/4

For use on vehicles with animal traction. The tyre-fitted wheels do not sink in the soil and the beast draught can pull a heavier load with less effort. Of particular advantage in farmwork. $7.00 \times 16''/6$

1546 Tractor Tyres

Dimensions 5.50-16" and 6.00-20". These tyres are fitted to front wheels of tractors and are made as model Standard or Tropic with leading tread pattern.
8.00-20" to 13.00-28" for use on tractor rear wheels. Model Standard and Tropic.

Instruction, advice, suggestions as well as entertainment is to be found every month in the richly illustrated motorist monthly CZECHOSLOVAK MOTOR REVIEW, Fraha I, Ul. 28. října 13.

1547 Heavy Duty Tyres

Made in dimensions from 6,00-18" up to the heaviest duty tyres 14,00-24", model Standard or Tropic.

Purpose: Tread pattern BUS for road service. Tread pattern Polar for off-road work.

1548 Bicycle Tyres

Produced in dimensions from 22 X114" up to 28 X175"; cable or bead type, black or red interior. Suitable for childern's sporting and touring bicycles.

Brake Lining

Band brake lining models Special and Extra Stop can be supplied in a width up to 200 mm or 8'' and thickness 6 to 15 mm or 236 to 6''. Standard packing in coils per 25 metres or 82 ft.

Purpose: Special — for lining band brakes of every description.

Extra Stop — flexible band with high temperature resist-

for lining brake shoes of heavy duty vehicles, trolleybusses, street cars.

oven — pressed with metal layer and optionally also with drilled holes for fast mounting. For motorcycles and passenger cars.

For conical clutches — according to customer's drawings, with metal layer for twin cone clutches of cranes and excavators which are subject to extra heavy stress and

Suitable for lining clutches in automotive and machine industry.

1550 Radiator Hoses

Made in diameters from 28 to 75 mm or from 1.1 to 2.95, wall thickness 5 mm or 2", surface plain, colour black. Number of fabric layers one or two. Maximum production length 3 metres or 10 ft. Suitable for engine radiators.

Battery Boxes

Made of hardened rubber. Purpose: Starter batteries for motorcycles, cars, commercial vehicles, Stationary — wound contaners according to Catalogue. Serve for building batteries or required voltage.

GUFERO Seal Rings 1552

The purpose of these seals is to protect the shafts against dirt. The seals resist to oils, greases and lubricants up to a temperature of 100° C or 212° F; to a slight overpressure of up to 1.5 kg/cm² or pressure 21,33 psi.

Advantageous features: Perfect sealing of rotating parts even under slight overpressure. Provid-es for longer life of rotatig parts and bearings. Eliminates seized or rusty bearings. Prevents losses of lubricants.

1553 Vee-Belts

Industrial Vee-Belts, made in black colour scheme and various sections from 8 to 40 mm or from .315 to 1.57". Serve for driving machines in industry, farming, etc.

Fan Vee-Belts are made in sections 10 to 25 mm or .394 to 1" and 9 series for foreign motor vehicles. Serve for driving fans, refrigerators, washing machines,

154

MOTOKOV

MOTOKOV

1561

1562 Zetor 25 K

General duty row crop farm tractor; hydraulic power lift for mounted implements, twin cylinder Diesel engine of 24 HP power output at 1 600 r. p. m.; fuel consumption 4 litres or .88 Imp. gall./hour. Six forward speeds from 3.8 to 18 km p. h. or from 2,36 to 11.18 m. p. h. and two reverse speeds; PTO shaft: 540 r. p. m., Complete 12 v. electrical equipment. Tyres, front 5.50×16", rear 9×36" or 13×18".

1563-

1565 Zetor 25 A

General duty farm tractor with hydraulic power lift. Twin cylinder Diesel engine of 26 HP power output at 1800 r. p. m. Pull on hook 1350 kg or 2976 lbs; belt pulley output 23 HP; fuel consumption while ploughing 4 litres or 88 Imp. gall./h. Six forward speeds from 3.4 km/h. up to 29 km/h. or from 2.11 m. p. h. up to 18.3 m. p. h., two reverse speeds; speed of P. T. O. shaft 540 r. p. m.; 12 V electrical equipment; tyres, front 5.50×16", rear 11.25×24".

Zetor 25 A with Hydraulic Power Lift & Three Point 1566 Linkage

1567 Zetor 25 K with Hydraulic Power Lift and Swinging Draw-

1568 Zetor Super, Hydraulic Power Lift not fitted Description identical with that of Zetor Super with Hydraulic Power Lift (not fitted).

1569 Zetor Super with Hydraulic Power Lift

Wheeled tractor of frameless design, powered with a four cylinder in-line Diesel engine with direct fuel injection; swept volume 4 160 c. c. or 253.76 cu. ir; pcwer output 42 P.P; 1500 r. p. m, specific fuel consumption 195 g/HP/h. or 6.89 oz/HP/h. — Hydraulic Power lift with remote ram control; belt pulley output 38 HP; standard P. T. O. runs at 540 r. p. m. Tyres, front: 6.00×20", rear 13×28".

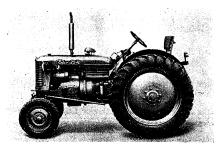
1570 \checkmark Zetor 25 A with Bottom Drawbar, Hydraulic Power Lift not fitted

1571 $_1$ Zetor 25 K 9 imes 36 Standard Drawbar $^\circ$

 $JAWA ext{-}CZ$ is the trade-mark of the motor-cycles which are conquering the world. Detailed information on these machines is regularly to be found in the illustrated monthly CZECHOSLOVAK MOTOR REVIEW.

Zetor 25 A with Hydraulic Power Lift and Adjustable

1573 Zeto 25 A, Hydraulic Power Lift not fitted



1574 \checkmark Zetor 25 K, 9 \times 36 Bottom Drawbar, Hydraulic Lift not fitted



 $1575\,\sqrt{\,\,{\rm Zetor\,\,Super\,\,P}\,\,({\rm Tracklayer})}$ and Zetor Super with Power Winch

1576 Zetor 25 A with Hydraulic Power Lift and Bottom Drawbar,

1577 Zetor 25 K with Hydraulic Power Lift & Standard Drawbar

1578 V Zetor 25 A with Hydraulic Power Lift and Bottom Drawbar

MOTOKOV

1579 Zetor Super Tracklayer

A tracklayer tractor of frameless design suitable for any kind of field A tracklayer tractor of frameless design suitable for any kind of field work, forest work and building industry. Power unit: Four cylinder Diesel engine with direct fuel injection, giving an output of 42 HP; swept volume 4 160 c. c. or 253.76 cu. in., 1500 r. p. m.; specific fuel consumption 195 g/HP/h. or 6.89 oz/HP/; pull on hook 3 000 kg or 6 600 lbs; standardized P. T. O. speed: 540 r. p. m. Instead of tyres, the tractor is fitted with tracks of 330 mm or 13" width, adhesion area 1 250 cm² or 198.25 sq. in.; specific pressure .350 kg/cm² or 5 lb/sq. in.

- 1580 Zetor 25 A, Hydraulic Power Lift not fitted, Pressure Air Brakes & Driver's Cabin fitted
- 1581 Zetor 25 with Hydraulic Power Lift & Adjustable Drawbar 13×28
- Zetor 25 with Hydraulic Power Lift, Adjustable Drawbar & Pressure Air Brake System 1582
- 1583 Zetor Super, Hydraulic Lift not fitted, Pressure Air Brakes & Driver's Cabin fitted

1584 Zetor Super P (Tracklayer) with Bulldozer Blade

Zetor Super Tracklayer fitted with Bulldozer blade controlled with the hydraulic power lift by means of steel cables. The blade can be arranged as angledozer or bulldozer. Working width 2 300 mm or 130", height 750 mm or 29.5". capacity 1 m $^{\circ}$ or 35.31 cu. ft.

- 1585 VZetor Super, Wheeled Type
- 1586 \checkmark Zetor Super, Wheeled, with Hydraulic Power Lift
- 1537 $\sqrt{}$ Zetor Super Tracklayer with Hydraulic Power Lift

1601 MLOV Fishing Power Plant

An outstanding power partner in fish stock-raising. Serves for fishing generation fish, for artificial milting, for fish-ing out and cleaning fry brooks, for inspection of fish

mg out and cleaning fry brooks, for inspection of fish aboundance, etc.

The generator builts a voltage of 250 V, being driven by a petrol engine of 2,8 HP output, swept volume 153 c. c., 3 000 r. p. m., Gross weight of power plant assembly: 72 kg or 159 lbs.

P 900 Sprayer

Trailing sprayer for tractors, for pest control of field crops and fruit trees. Two to six extensions can operate simultaneously. Filling capacity 900 litres or 193 Imp. gall. Working with a flat spraying with nozzle frame 12 mt or 39.4 ft, output with nozzle frame 1.3 to 2 ha or 3.21 to 4.94 ac. per hour. Weight 570 kg or 1.256 lbs.

1603 3 PZ 35 Three Bottom Trailing Plough

Heavy duty trailing plough with fore-bottoms and disc blade. Furrow depth 30 cm or 12", working width 1050 mm or 41,3"; weight of plough 1400 kg or 3086 lbs. One bottom detachable. The plough is designed to suit tracklaying tractors up 35 HP output.

UNIKUM 16-SLN-150 Spoon Drill

To be mounted on tractors of 25 to 35 HP. Can be used for sewing farm products similar to cereals. Working width 2 400 mm or 94,5", sixteen two-disc shoes of 150 mm or 5,91" pitch. Weight approximately 500 kg or 1100 lbs.

5 PZ 35 Five-Bottom Trailing Plough

Heavy trailing plough for tracklayer tractors up 50 HP power output, with forebottcms and disc blade. One bottom is detachable. Working depth 30 cm or 12", working width 175 cm or 69", weight 1990 kg or 4387 lbs.

1606 17-SVBP-105 Drill for Animal Traction

Roller system with top and bottom sowing, auto-forecarriage. Number of rows 17; pitch 105 mm. Can be adjusted to 15 rows, pitch 120 mm or 4.72", or 13 rows, pitch 150 mm or 5.91", also 4 rows, pitch 150 mm or 17.7" for beetroot sowing; Filling capacity 100 dm or 6102 cu. in., weight of machine 455 kg or 1004 lbs.

Electric scythe sharpener BEPKU 125

Driven by electric motor of 0.30 kW, 220/380 V, 2800 r. p. m.; weight of machine 30 kg or 66 lbs.

Blower-chopper RVM 37

Suitable for dry and fresh fodder. The chopper is driven by an electric motor of 5.5 kW; chopper wheel speed 300 r. p. m., weight of machine approximately 400 kg or 880 lbs. Transport of dry fodder up to a distance of 25 mt. or 82 ft.

1609 ŠK 24 Shredding Mill

For shredding cereals and fodder-plants, but also industry materials, such as paper, asbestos, charcoal, etc., the ŠK 24 Shredding Mill will be found

coal, etc., the SK 24 Shredding Mill Will be found of particular advantage.

Drum dia. 450 mm or 17.7", number of mallets 24, belt pulley width 180 mm or 7.09", output 1.5 to 11 metr. q. or 350 to 2925 lbs, according to the kind of material. Necessary input 7.5 kW (10.2 HP), 3 300 r. p. m., weight 260 kg or 573 lbs.

1610 ŠK 36 Shredding Mill

For shredding all kinds of cereals, maize, chestnuts, stalky plants, etc. Necessary input of motor 25 kW. Output according to sieve used 500 to 1500 kg or 1100 to 3300 lbs p. hour. Weight 250 kg or 550 lbs.



158

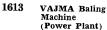
MOTOKOV

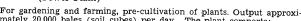
VSDP 25 Hay Blower with Pulping and Conveying System

Serves for conveying hay and straw both dry and fresh, for their pulping for sillage purposes. The pulping mechanism is detachable. Electric motor of 7.5 kW output, pipes of 500 mm or 20" dia. Weight of machine approximately 700 kg or 1540 lbs.

1612 Clover Seed Husker

Serves for husking clover heads. Width of threshing drum 870 mm or 34.3". Ne-cessary input - 4 HP - 1 250 r. p. m. Outstanding output of 600 to 1200 kg or 1323 to 2646 lbs seeds within 10 hours, according to quality. Weight of machine 495 kg or 1 092 lbs.





- For gardening and farming, pre-cultivation of plants. Output approximately 20 000 bales (soil cubes) per day. The plant comports:

 1. Filling machine with flanged electric motor of 1 kW input, weight of machine 230 kg or 507 lbs.

 2. Pressing-out machine. Weight 130 kg or 286.6 lbs.

 3. 9 pcs of grille of light aluminium alloy weight of one grille approximately 7 kg or 15.43 lbs.
- 1614 JARO hand-operated drill

An efficient partner on small lots for sowing any kind of seeds in rows. Filling capacity 2 litres or .44 I. gall., weight of machine approxi-



1615 Intake - Eruption Dung Cart

For transport of liquid dung. Chassis fitted with 7.5 × 20" tyres, boiler of 2 m³ or 70.6 tyres, boiler of 2 m³ or 70.6 cuf ft. useful capacity, with fittings for petrol pulverisation, level mark and tripple (three-part) intake pipe line. Underpressure 0.54 kg/cm² or 7.68 psi, intake interval 120 to 220 sec. Weight of machine 1830 kg or 4034 lbs.

PK V X Mobile Scolding Set

Serves for washing, conveying, scolding and mashing potatoes designed for sillage or for feeding purposes. The set comports three scolding bodies, high-speed steam generator with water tank, mobile washer PP III, potato masher, conveyor and undercarriage. Filling capacity of one scolding body 830 litres or 183 Imp. gall, useful filling of potatoes 600 kg or 1323 lbs. Output of set 1500 kg or 3300 lbs per hour.

Fast, comfortable and reliable Cransportation

all over the world

bу

K. L. M. ROYAL DUTCH AIRLINES



Contact the nearest Representative or your Agent



1617 ESOX M II Aquatic Mower

Machinery built-in to punt of 350 cm or 138" length, 115 cm or 45.3" width and 40 cm or 15.7" depth. Two stroke petrol engine of 5.5 HP output driving vane wheels and cutter bars.

Horizontal cutter bar of 163 cm or 65.77" length can mow to a depth of 80 cm or 31.5" below water level. Weight of machine 325 kg or 716.51 lbs.

1618 Potato Sorter

Serves for assorting and cleaning potatoes. Fitted with three working frames for replaceable sieves (five pcs.). Driven by built-in electric motor. Additional hand drive. Weight of machine 260 kg or 573 lbs.

1619 ESOX M Aquatic Mower

For mowing reeds growing in water. (Sheet metal punt of 180 cm or 70.9" length, 100 cm or 39.4" width and 40 cm or 15.7" depth.) Both cutter bars are driven by a twostroke petrol engine, air cooled, of 2 HP output. The machine has no special travelling drive, its weight being 180 kg or 397 lbs.

1620 HPV 1 Hiller for Animal Traction

Serves for hilling potatoes. Working width 500 mm or 20", weight approximately 29 kg or 84 lbs. Designed for one horse power.

1621 STELLA 30 Hoe for Animal Traction

Three-row model, suitable for beetroot hoeing. The individual systems of the hoeing points are independent. Working width 1070 mm or 42", maximum working depth 100 mm or 4", weight 125 kg or 276 lbs.

1622 PLANTAGE NM Hoe for Animal Traction

Serves for hoeing potatoes, being adjustable both axially and vertically. The three rear tines can be replaced on repeated hoeing. Weight 52 kg or 115 lbs.

1623 MHD 2 Plough for Animal Traction

Working width 220 mm or 8.66'' maximum, working depth 60 to 140 mm or 2 336 to 55.6'', weight 24 kg or 53 lbs.

1624 HMLR 1 Plough for Animal Traction

Working width of share 220 mm or 8.66'' max., working depth 60 to 140 mm or 2.36 to 5.51'', weight 30 kg or 68 lbs. With one handle and BH slide

1625 TP 100 Plough for Animal Traction

Working width of share 170 mm or 6.69", working depth 50 to 130 mm or 1.97 to 5.12", weight 12 kg or 26.4 lbs.

MOTOKOV

SP 6 L St Plough for Animal Traction

Single share plough of 230 mm working width (9.06"), working depth 90 to 170 mm or 3.54 to 6.69", with land wheel. Weight of plough 40 kg $\,$ or 88 lbs.

SP 7 L St Plough for Animal Traction

Light model, working width 250 mm or 9.84", working depth 90 to 230 mm or 3.54 to 9.06", weight 39 kg or 86 lbs.

SP 9 R Plough for Animal Traction

Plough-shaped blade, working width 300 mm or 12", working depth 100 to 230 mm or 3.94 to 9.06", weight 61 kg or 134 lbs.

OPKSO Plough for Animal Traction

Single share reversible plough with model 5/6 NR forecarriage with auto control, working width 210 mm or 8.27'', working depth 60 to 150 mm or 2.36 to 5.91'', weight 65 kg or 143 lbs.

OPK SOSt Plough for Animal Traction

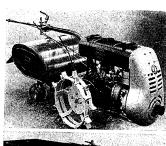
Single-bottom turning plough fitted with land wheel; width 21 cm or 8.27", working depth 6 to 15 cm or 2.36 to 5.91"; weight 41 kg or or 8.27 90.4 lb.

KV 42 Chopper-Blower

Purpose: chopping dry or fresh fodder. Weight 1086 kg or 3 350 lbs. Transport length of chopped fodder 8 m or 26.25 ft, height 15 m or 50 ft. Output per hour: when chopping straw to 2 cm or .787" or dry fodder 3 000 kg or 6 614 lbs. Necessary input 8 to 10 HP from built-in electric motor. Weight 1 100 kg or 2 425 lbs.

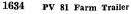
PF 6 Motorobot

The petrol engine is a two-stroke single cylinder air cooled, giving a power output of 6 HP; three forward speeds, one reverse. Weight c/w attachments 400 kg or 880 lbs. Purpose: Light tractor for gardening. Can be supplied to operate on paraffin oil (kerosene).



Working width 400 to 600 mm or 15.75 to 23.62", maximum working depth 250 mm or 9.84"; three kinds of blades, weight 110 kg or 242 lbs.

F 651 Soil Fraise



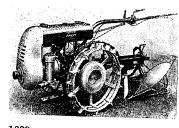
Disc wheels fitted with tyres $6.00\times16''$; carrying capacity $1\,000\,$ kg or $2\,200\,$ lbs; weight $260\,$ kg or $573\,$ lbs. Cargo platform $210\times135\,$ cm or $83\times53''$.

PP 23 Auxiliary undercarriage

For transport purposes and operation with implements requiring no attetion.
Wheels fitted with bantan tyres run on roller bearings. Weight of undercarriage 72 kg or 158.7 lbs.

1636 VCM Roller

Steel tube frame fitted with driver's seat. Weight of roller 485 kg or 1069 lbs.



1639 3 DHK Všerob (All Purpose Plough)

Can be used as digger, moul-Can be used as digger, mounder, hiller or row drop cultivator by simple replacement of implements. Gross weight of All Purpose Plough assembly 138 kg or 304 lbs.

1640 ZM 12 Power Sweep

For sweeping yards, and play grounds. Weight of mechanism 160 kg or 353 lbs. Working width of roller 1265 mm or 40.8", travelling ground 44.6 blue. travelling speed 4 to 5 km or 2.4 to 3.1 m. p. h.

VLM Digger

For digging holes, planting trees to a dia. of 280 mm, depth 300 mm or 11" dia., 12" depth. Two borers: auger and drill, both with screwed on points. Weight of machine 60 kg or 132 lbs.

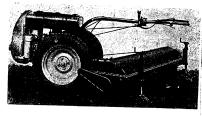


1637 ž 151 Cutter Bar

Semi-thick with 28 bits. The bar operates at reverse speed of Motorobot which is 3.5 km or 217 miles p. h. Weight of cutter bar 110 kg or 242 lbs.

POM 25 Single share reversible plough

Single share reversible plough for ploughing medium heavy soil to a maximum depth of 210 mm or 8.3". For use with Motorobot PF 6. Working width 250 mm or 9.8"; weight 52 kg or 114.6 lbs.



CPM 60 Circular Saw

For cutting wood. Saw output 2 to 4 c. m. or 70 to 140 cu. ft. according to the kind of wood, with two operators. Weight of machine 83 kg or 242.5 lbs.

1643 Plain Roller

1644 PM 200 Adapter Sprayer

For pest control of orchards and vegetable crops. Tank capacity 200 lt. or 44 Imp. gall. fluid. Weight of machine approx. 220 kg or 485 lbs. Output per hour 0.8 ha or 1.98 ac., or 180 to 350 fruit trees.

1645 VM Borer

Semi-mounted implement for PF Motorobot serves for drilling perpendicular and diagonal holes of 300 mm and 450 mm or 12" and 17.7" dia. to a depth of 700 mm or 27.6", for building purposes and orchard cultivation.

1646 BDM 100 Disc Harrow

Serves for preparation of seed beds and turning of stubble fields. The machine is fitted with four LH and four RH discs which are axially adjustable. Working width 1 000 mm or 39.4", weight 94 kg or 207 lbs.

1647 KRM 116 Three-row cultivator

Working width 1160 mm or 45.66", maximum working depth 120 mm or 4.72"; weight 40 kg or 88 lbs.

1648 KM 64 Cultivator

Serves for soil loosening. Fitted with five points having a total working width of 640 mm or 25.2". Maximum working depth 90 mm or 3.54", weight 40 kg or 88 lbs.

1649 N 12/26 Belt Pulley

Special attachment to PF 6 Motorobot suitable for driving light agricultural machines. Belt pulley dia: 120 mm or 4.72", width 70 mm or 2.76", speed 2 300 r. p. m.

1650 PT 10 Tracklayer Tractor c/w Sprayer

Two stroke, twin-cylinder, air cooled petrol engine of 689 c. c. or 42 cu. in; power output 7 HP; three forward speeds, one reverse. For work in vineyards and hopfields. Gauge 960 mm or 38". PT 10 Tractor having a gauge of 850 mm or 33.5" is also available.

1651 Sprayer

Filling capacity 300 litres or 66 Imp. gall., spraying height up to 1 metre or 3.3 ft. Weight of sprayer 130 kg or 286.6 lbs.

1652 PT 10 Plough

Will be found of exceptional advantage particularly for hopfields. Working widht variable, weight of plough 70 kg or 154 lbs.

1653 PRIM Harvester for Animal Traction

With oil bath; ball and roller bearings, sweep (working width) 1.520 mm or 60", weight of machine 440 kg or 970 lbs.



1654 MA 90 Thresher

For threshing any kind of cereals, legumens and oil plants. 4 to 5 operators. Output 20 metr. q. or 4800 lbs p. hour while threshing wheat of 43.5 % yield & 16 % moisture. Weight of machine 3800 kg or 8378 lbs; drive by electric motor Model RFU 92 A, 25 kW, 2960 r. p. m. for A. C. 380/220 V.

1655 130 LSP Straw Press to Thresher

Designed for MA 90 and NTZ 48 Threshers, but suitable also for other threshers of equal output. Weight 1 025 kg or 2 260 lbs. Press output per hour: 30 to 35 metr. q or 660 to 770 lbs.

1656 žM 330 Harvester Thresher

Working width 3 300 mm or 130", four speeds stepped up from 1.5 to 10.5 km or 932 ip to 6.52 miles p. h.; feeding table, grain dividers and reel in vertical plane hydraulically operated, engine output 60 HP, threshing drum dia. 550 mm or 17.7", two-stage cleaning. Weight 4 200 kg or 9 259 lbs.

1657 LSK 130 Straw Baler Press

Purpose: collecting and baling of dry straw; weight 1400 kg or 3086 lbs, working width 1300 mm or 51.2"; suitable for Zetor 25; output per hour 0.5 to 1 ha or the tractor driver — one for the press, the other for the truck.

1658 H 303 Farm Cart for Animal Traction

Carbo platform dimensions 3.5×1.8 metres or 11.5×5.9 ft. Gross weight approximately 800 kg or $1\,764$ lbs. Maximum permissible speed of cart 10 km or 6.2 miles p. hour.

1659 LV 5 Harvester Binder for Animal Traction

Light model with minimum traction effort required - approx. 160 kg or 353 lbs - two light horses. Working width 5 ft, RH cutting mechanism. Weight 710 kg or 1565 lbs. Output per 10 hours: 3 to 5 ha or 7.41 to 12.4 ac.

Detailed reports with a large number of pictures are to be found in the CZECHOSLOVAK MOTOR REVIEW.

MOTOKOV

165

1660 Čert Potato Digger for Animal Traction

For digging potatoes. Singlerow, extremely light opera-tion, weight 280 kg or 617 lbs.

HEROS 138 Grass Mower for Animal 1661

Central cutter bar, working width 1380 mm or 54.35", cranked hitch with wheel, gears running in oil bath, weight 360 kg or 794 lbs. Both hitch and cutter bar can be adjusted as necessary.

1662 FAMOSA 12 Sprayer

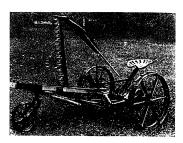
Hand operated pressure sprayer, portable on back. Weight 7 kg or 15.43 lbs, filling capacity 12 litres or 2.64 I. g. consumption of liquid per ha 425 litres or 93.5 I. gall.

FAMOSA 22 Sprayer

Hand operated, pressure type, portable on back. Filling capacity 22 litres or 4.84 Imp gall. Suitable for areas of 1 up to 2 ha or from 2.5 to 5 ac. Weight of apparatus 14 kg or 30 lbs.

1664 FLORA 16 Sprayer

Hand operated pressure-less sprayer, portable on back. Weight 7.5 kg or 16.5 lbs, filling capacity 16 litres or 3.5 Imp. gall. Suit-able for vineyards and vegetable



1665 TRT Tractor Driven Sprayer

Weight 30 kg or 66 lbs. Filling capacity 30 litres or 6,6 Imp. gall. Working pressure 6 kg/cm² or 85,33 psi. Range 700 mm or 27", consumption of liquid per ha 400 to 425 lit. or 88 to 93,5 Imp. 4all.

1666 NEZMAR Sanitation Sprayer

Made of non-ferrous metals. Filling capacity 20 litres or 4,4 Imp. gall., maximum pressure 5 kg/cm² or 71.12 psi.

1667 Z 3 A Grain Blower

For Conveying grain pheumatically. Easily movable, simple preparation to work. Weight approx. 320 kg or 705.5 lbs.



166

1668 ESOX B 2 Aquatic Mower

moving reeds and other water plants. Working width 210 mm or 8.2", output per hour 6 ha or 14.83 ac Drive from builtine ngine. 2 operators needed. Weight of machine 900 kg or 1984 lbs.

1669 Z 102 Grain Blower

Designed for pneumatic conveying of grain and loose matter of every description. Due to its high output of 120 q/h. it will be found of great advantage for large farms and industrial works. Pipe dia. 300 mm or 12", maximum transport length 60 mt. or 197 ft., height 35 mt. or 115 ft. Driven by electric motor of 7.5 kW, 2800 r. p. m.

1670 Z 103 Grain Blower

Suitable for smaller and medium size farms. Output 609/hr. Piping 220 mm in dia. Transport distance 50 metres, height 20 metres, 7,5 kW electric motor drive, 2800 r.

Accessories: 25 metres of piping, 3 elbows, 1 endpiece, 18 high-speed couplings.

Weight of the machine: 160 kg without accessories.

Attachments: 31 mt or 101,7 ft. pipes, 5 elbow-pieces, one end-pieces, 25 fasteners. Weight of machine, attachments

excluded: 460 kg or 1014 lbs.

1671 IDEAL 500 Hay Blower

For conveying hay, straw, etc. Output 10 metr. q. fodder per 10 to 13 mm. Transport length max ximum 50 mt. or 164 ft. Input: electric motor 5.5 kW, 1 440 r. p.

Weight of machine: 210 kg or 462 lbs., el. motor included.

105 kg or 231 lbs. el. motor included.

1672 Pneumatic Conveyor

Serves for conveying hay, grain, saw-dust, wood wool, coke and other farm and industry products. The machine is fitted with a high quality cast and has three working stages.

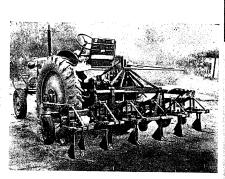
- 1. Transfer of loose materials (pipe dia. 260 mm or 10.2"). 2. Intake filler.
- 3, Filler for cloddy materials (pipe
- dia. 500 mm or 19,7"). Weight of machine approximately 1 400 kg or 3 086 lbs.

PDP 120 Half-Mounted Disc Plough

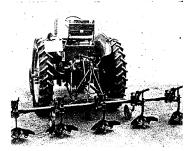
Serves for ploughing stubble fields while simultaneously sowing stubble field fodder plants. Working width 1 200 mm or 47", disc diameter 500 mm or 20", number of disc 9, pitch 180 mm or 7". Weight approximately 550 kg or 1 212 lbs. Output per hour 1 ha or 2.47 ac. Designed for Zetor 25.

KPN 6 Hoer

6 bodies, variable working width 380 to 800 mm or 15 to 31.5", maximum working depth, side points 800 mm or 3.15", maximum working depth, medium points and chiseling 120 mm or 4.72". Output 0.8 ha or 1.97 ac. at a speed of 6 kg or 3.72 m. p. h.



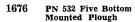
MOTOKOV



1675 HN 41 Mounted Hiller

Has five bodies adjustable to a row pitch of 600 to 700 mm or 2.36 to 2.76", The wings of the hilling bodies are adjustable both horizontaly and vertically. Maximum working depth, 180 mm or 7.06", weight of machine 160 kg or 352 lbs.

Output while ploughing: 1.3 ha or 3.11 ac at a speed of 4 km or 2.5 m.



Working width 1 250 mm or 49.2", maximum working depth 100 mm or 4", weight 235 kg or 518 lbs.
Output 0.35 ha or .86 ac. at a speed of 5 km or 3.1 m. p. h.

1677 PN 252 Two Bottom Mounted Plough

Working width 600 mm or 23.6", maximum working depth 250 mm or 9.84", weight 265 kg or 452 lbs. Output 0.25 ha or, 61 ac. at a speed of 5 km or 3.1 m. p. h.

1678 KN 170 P Mounted Cultivator

Has seventeen half-fixed points. Working width 2550 mm or 98.6", working depth 120 mm or 4.72", weight of machine c/w attachments 340 kg or 750 lbs.

Output 0.6 ha or 1.5 ac. at a

Output 0.6 ha or 1.5 ac. at a speed of 6 km or 3.72 m. p. h.

1680 UPS Universal Forecarriage

Basic component of the range of trailing ploughs. Can be fitted with plough or cultivator bodies. Fitted with automatic lifting mechanism. Stroke of fallow wheel max. 400 mm or 15.7", weight 190 kg or 479 lbs.

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.

1681 U 22 Two Bottom Body

Maximum working depth 250 mm or 9.84", overall working width 600 mm or 23.6". Weight of plough assembly 450 kg or 992 lbs. Weight of plough body 260 kg or 573 lbs. Output 0.29 ha or .61 ac. at a speed of 5 km or 3.1 miles p. h.

1682 U 322 Three Bottom Body

Identical with U 22 body, but having three bottoms. Working width 900 mm or 35.4", weight 345 kg or 760 lbs. This plough body is suitable for a tractor up 35 HP output.



1683 U 327 Three Bottom Body

Designed for medium heavy soil to a working depth of 220 mm or 8.68%, overall working width 750 mm or 29.5%. Weight of plough assembly 470 kg or 1036 lbs., weight of body 280 kg or 617 lbs. Output 0.34 ha or .84 ac. at a speed of 5 km or 3.1 miles p. h.

1684 U 51 Five Bottom Body

Maximum working depth 150 mm or 5.91'', overall working width 1250 mm or 49.2''. Weight of Body c/w attachments 245 kg or 540 lbs. Output 0.35 ha or .86 ac. at a speed of 5 km or 3.1 miles per hour.

1685 UK 153 Cultivator Body

Has fifteen points of 150 mm or 5.91" pitch; working width 2100 mm or 82.7", working depth 120 mm or 4.72". Weight of assembly 364 kg or 802 lbs., weight of body 174 kg or 384 lbs. Output 0,34 ha or ,84 ac. at a speed of 5 km or 3.1 m. p.h. Optionally with extirpator blades instead of points.

JAWA-ČZ is the trade-mark of the motor-cycles which are conquering the world. Detailed information on these machines is regularly to be found in the illustrated monthly CZECHOSLOVAK MOTOR REVIEW.

162

1679

2 PDN 35 Two Disc

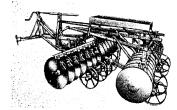
Mounted Plough

Maximum furrow depth 220 mm

or 8.27", working width 700 mm or 27" (one disc 350 mm or 13.8"). Weight approx. 260 kg or 573 lbs. Discs are adjustable both in vertical and horizontal plane.

MOTOKOV

MOTOKOV



1686 NTB 28 Trailing Disc Harrow:

28 discs, disc dia. 450 mm or 17.7", working with 2 240 mm or 88.2", weight 510 kg or 1 323 lbs. Additional weight can be fitted, output 1,1 ha or 2.72 ac. at a speed of 5 km or 3.1 miles p. h.

1687 Mars Piccolo 332 Three Bottom Trailing Plough

Overall working width 750 mm or 29.5", maximum working depth 210 mm or 8.27", weight 236 kg or 521 lbs. Output 0.35 ha or .86 ac. at a speed of 5 km or 3.1 m. p. h.



1688 3 PZ 35 Three **Bottom Trailing** Plough

Heavy trailing plough with front shares, disc blade. Working depth 30 cm or 12"; working width 1050 mm or weight of plough 1400 kg or One share detachable. The plough is designed for use with a tracklayer tractor up 35 HP.

KHN 280 Cultivator for Depth Loosening

Working width 2800 mm or 110", maximum depth 200 mm or 8", number of tines 19. Designed for Zetor Super-working speed 5 km or 3.11 miles p. h. Weight 470 kg or 1036 lbs.

PDZ 17 Disc Plough for Stubble Fields

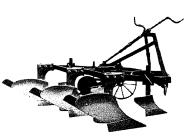
17 discs of 500 mm or 19.7" dia., pitch 18 mm or .09", working depth 50 to 80 mm or 1.97 to 3.15". For stubble field ploughing and simultaneous sowing. Working width 2500 mm or 98.4".

KHZ 200 Trailing Cultivator for Depth Soil Loosening

Working width 2000 mm or 65.62 ft., maximum depth 300 mm or 12", number of times 9 (7). Necessary power input 35 to 40 HP, working speed 5 kg or 3.11 miles p. h. Weight 750 kg or 2645.5 lbs.

1692 3 PN 35 Three Bottom Heavy **Duty Mounted** Plough

Overall working width 1 050 mm or 41.3", working depth 280 mm or 15"; last bottom detachable, one disc blade, three pre-brees three pre-shares, weight 410 kg or 904 lbs. Complete set of spare blades as equipment. Longitudinal pitch between bottoms 650 mm or 25.6".

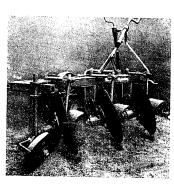


1693 3 PDN 35 Three Disc Mounted Plough

Maximum furrow depth 220 mm or 8.27"; working width 1 050 mm or 41.3". Discs are adjustable both in vertical and horizontal plane.

S PN 35 D Mounted Three Bottom Plough

Extended frame - longitudi-Extended frame - longitudinal pitch between bottoms 70 cm or 27.6". Last bottom detachable. Working width 105 cm or 41.3", maximum working depth 28 cm or 11", weight of plough 430 kg or 947.5 lbs. 947.5 lbs.



TDBT 5 A Tractor Point Harrow

For preparation of seed beds. Overall working width 4800 mm or 18.9", number of points 100. Number of squares 5. Weight 240 kg or 529 lbs., output approximately 2.4 ha or 6 ac. at a speed of 5 km or 3.1

35 SVBZ 75 Narrow Pitch Drill

The machine can be fitted with a device for clover sowing. Universal drill for cereals. Weight 730 kg or 1 609 lbs. Number of rows 35, pitch 75 mm or 2.95", working width 2 625 mm or 111.8", handling: 1 person, overall width 3 310 mm or 13.4".

Novitas 3 m Fertilizer Spreader

Working width 3000 mm or 1181". Suitable for any tractor model fitted with drawbar or coupling hook. Weight 300 kg or 660 lbs. Output 1.8 ha or 4.44 ac, at a speed of 6 km or 3.72 miles per hour.

170

MOTOKOV

MOTOKOV

Novitas 2 m Fertilizer Spreader

Working width 2 000 mm or 78.74''. Output 1.2 to 1.6 ha or 2.76 to 3.95 ac. at a speed of 6 km or 3.72 miles p. h.



TLZ 120 Flax Puller

For flax pulling behind Zetor 25 Tractor; working width 1 200 mm or 47.2", weight 925 kg or 2435 lbs.

1700 Flax Combine

The combine pull the flax, de-seeds it and stores for dewing. Working width (sweep) 1200 mm or 47", output 6 ha or 15 ac. per hour. The necessary tractor power is 25 HP, maximum travelling speed 10 km or 6.21 miles p. h. The actual combine mechanism is driven by a petrol engine having a weight of 2180 kg or 4806 lbs.

SŘZ 42 Sillage Combine

Designed for fresh and dry fodder, has detachable sets; for low-stalk fodder up to 1500 mm or 59", for high-stalk fodder above 1500 mm or 59" height and for dry fodder.

or 39 height and for dry loader. The machine mows the folder, chops it and blows the chopped fodder into an accompanying vehicle. Minimum operators needed. Working width of cutter bar 1 292 mm or 50.8"; length of machine 1 300 kg or

1702 2 SZ-210 Fodder Piler and Turner

Two purpose machine. Adaptable for animal traction. Working width of both parts connected 4200 mm or 165", operating speed 8 km or 4.35 miles p. h.; output p. h. 2.4 or 5.93 ac.; 2 operators needed for preparation, one tractor driver for operation.

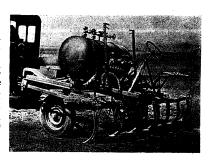
TORON S 2 Hay Blower

For pneumatic conveying of hay, straw, etc. Weight 370 kg or 815.7 lbs. Exceptionally easy preparation to work. Net weight of Blower 195 kg or 530 lbs.

Information on the service is to be found in the CZECHOSLOVAK MOTOR REVIEW, Praha I, Ul. 28. října 13.

1704 Ammonia Spreader

Serves for additional fertilizing with compressed monia. Comprises two undermonia. Comprises two under-carriages with tanks and fer-tilizing system fitted to hiller. Filling capacity 535 litres or 117.5 Imp. gall. Points can be adjusted from 300 to 700 mm or from 12 to 27". Working depth 100 to 150 mm or 4 to 6". Working width 2 700 mm or 106". Weight of set 1850 kg or 4 079 lbs. kg or 4 079 lbs.



1705 ŽTZ 183 Trailing Cutter Bar for Tractors

Tine pitch 76.2 mm or 1.97", working width 1830 mm or 72", half-mounted, RH-cut, thin cutter bar. Travelling speed 6 km or 3,73 miles p. h., weight of machine 210 kg or 462 lbs.; crankshaft speed 860 r. p. m.

1706 MBK 180 P Tractor Binder

Direct tractor drive. Cutting bar width 1830 mm. For use with low-powered tractors. Approximate output 0.5 hectare per hour. Approximate weight 960 kg.

1707 ŽVZ 210 Tractor Driven Binder

Three-sheet LH cut, working width 2100 mm or 83". Light construction of pressed sheet metal. Fitted with worm type separator. Two wheels only, both for transport and operation. Weight approximately 850 kg or 1874 lbs.

1708 2 SKŘ Beet Combine

Two-row beet cropper which cuts the beet leaves first and then digs and collects the heads. Outputs approximately 2 ha or 5 ac. per 10 hours. Weight of machine 1 200 kg or 2 645 lbs. To be used with Zetor Super Tracklayer.

T 3.5 P VB 2 Trailer

Tractor trailer for heavy loads. Payload 3 500 kg or 7 700 lbs. Operating weight 1 450 kg or 3 196 lbs. Tipping mechanism operated by hand crank (360). The trailer is fitted with pressure air brakes and with additional mechanically operated hand brake.

Technical and scientific articles following the development of technology in motorism are regularly to be found in the illustrated periodical CZECHOSLOVAK MOTOR REVIEW, popular all over the world. It is published in English, French, Spanish and German.

172

MOTOKOV

MOTOKOV

T 3.5 P NB 2 Trailer

Equal to model T 3.5 P VB 2, but differs by its run-on brake. Weight of trailer 1 450 $\,\mathrm{kg}$ or 3196 $\,\mathrm{lbs.}$ Additional mechanically operated hand brake.

1711 DP-2.5 P Two Wheel Trailer

Can be hydraulically tipped to three sides, loading area 4,8 m² or 51.67 sq. ft., carrying capacity 2500 kg or 5500 lbs., maximum speed 30 km or 18.6 m. p. m., weight of trailer approximately 710 kg or 1785 lbs

1712 FPT 2.5 Dung Cart

For any liquid dung with the exception of acids. Fitted with Vacuum-For any liquid dung with the exception of acids. Fitted with Vacuum-compressor for pumping liquid manure. Empty weight 2 400 kg or 5 290 lbs. Filling capacity 2.5 c. m. or 88.28 cu. ft. Maximum front axle pressure 3 700 kg or 8 157 lbs., max. rear axle pressure 3 400 kg or 9 446 lbs. Filling within 3 minutes, draining within 2 minutes.

1713 T 5 P Trailer

For use with tractors, payload 4700 kg or 10360 lbs. Weight of trailer 1850 kg or 4078 lbs. Tipping mechanism is controlled by means of a hand crank. The vehicle is fitted with a pressure air trun-on mechanically operated brake. Cargo platform 8 m² or 86112 sq. ft.

Aero Super

Twin motor aircraft four seater, suitable for sporting, training, courrier or aerotaxi purposes.

Fitted with two Walter Minor 4-III motors or 105 HP nominal output. Peak speed 265 km or 164 m. p. h., cruising speed 240 km or 149 m. p. h. at a fuel consumption of 20.5 lt/p. 100 km or 13.75 m. p. I. g.

1732 Z 126 »Trener«

Single motored low-wing tandem suitable for training, sail-plane Single indured low-wing tandem suitable for training, sail-plane towage and aerobatics.

The built-in Walter Minor 4-III motor of 105 HP enables the plane to develop a top speed of 205 km or 127 m. p. h., cruising speed 180 km or 112 m. p. h. at a fuel consumption of 13 1t/100 km or 24.76 m. p. I. g.

LF 109 »Pionýr«

Two seater sail-plane of mixed construction, trainer-schoolplane. Optimum glide ratio, fully loaded, speed 80 km or 50 m. p. h.; 18.5 to 1, minimum drop 1.06 m/sec. at 62 kg or 38.5 m. p. h. Permissible km or 74.6 m. p. h.

1734 Aeroplane Model

174



Mikron III

Light, air-cooled, four cylinder inline motor of 65 HP at 2 600 r. p. m. Fuel consumption at cruising output of 48 HP at 2 350 r. p. m.: 225 g/HP/h or 7.98 oz/HP/h. Suitable for aircraft and light meter levenber light motor launches.



1736 Walter Minor 4-III

Aircraft Motor, inverted four cylinder in-line, air cooled; power output 105 HP at 2500 r. p. m. Cruising output 80 HP at 2300 r. p. m. at consumption of 225 g/HP/h or 7.98 oz/HP/h.

1737 Walter Minor 6-III

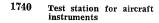
Four stroke, air cooled, six cylinder in line aircraft motor. Nomat 2500 r. p. m., cruising output 125 HP at 2300 r. p. m. and fuel consumption of 225 g/HP/h or 7.98 oz/HP/h.

1738 Praga Doris B

Air cooled flat six cylinder of 220 HP at 3 000 r. p. m.; cruising output 180 HP at 2 300 r. p. m. and fuel consumption of 210 g/HP/h or 7.45 oz/HP/h.

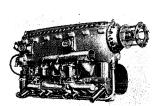
1739 Aircraft dashboard instruments

airplanes and sail planes: giroscopic, navigation, motor per-formance gauges, gauges checking operation of various power units, etc.



Airport lighting set

Signalisers of every description used in aircraft service. Seriously interested parties will be shown novelties such as Z 226, Démant, swinging sail-plane; LD 40—all-metal Sokol; L 60—agricultural airplane and L 13—all-metal two seater sail-plane at the airport.





1742 V 401 E Air Screw

Electrically adjustable in flight, Has two wooden blades, can be used for motors up to 2600 r. p. m.; controlled electrically from the cockpit to four pre-set positions: start, climb, top speed and cruising.

1743 V 411 Air Screw

Mechanically adjustable in flight. Has two wooden blades and can be used for powerful engines.

1744 Aero Super

Same as 1731.



1745 z-226 т

A new development type of aircraft with a six cylinder engine. A novelty of the Czechoslovak aircraft industry.

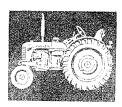
1746 Diamond

Weight, empty 260 kg, weight, maximum 460 kg, payload 200 kg, wing span 18 metres, length 7.60 metres, wing area 16.15 sq. metres, slenderness ratio 20, minimum speed 54 km per hour, optimum gliding angle 1:35 at a speed of 85 km per hour, descent at a speed of 100 km per hour 1 metre per second at a gliding angle of 1:27. Maximum speed for towing by aircraft 150 km per hour, for towing by winch 120 km per hour, maximum permissible speed 250 km per hour.

cut down your Technical books will help you to achieve it. Many years of scientist and technical men as well as foreign expects compled in the books of SATL, Publishers of Technical Literature, are of priceless help to our designers, production engineers, technicians. and other workers in all granches of mechanical engineering. refrigeralling Hydraulic machines RANSPORT AND LIFTING Thermal and for chemi ASSEMBLY AEROPLANES HEAT TREATMENT Forging and pressing PRECISION MACHINES AND INSTRUMENTS testing an Surface finishing Economics and planning Power engining Material

> SNTL - PUBLISHERS OF TECHNICAL LITERATURE Spálená 51, Prague II.

170



Products of World-Wide reputation exported by MOTOKOY



- Products of Automobile Industry
- Automobile and Motorcycle Outfit
- Bicycles and Spare Parts
- Workshop Machinery Equipment, Tools and Implements
- Kitchen Machines and Equipment for Tradesmen
- Enamelware and Enameled Cast-Iron Goods
- Technical Rubber and Leather

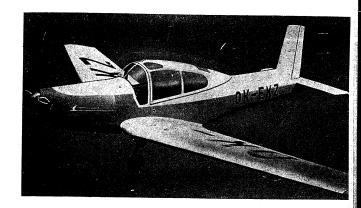


WIDE ASSORTMENT — HIGH QUALITY See for yourself at the Exhibition in Brno



MOTOKOY

PRAHA — CZECHOSLOVAKIA



LD-40 - All-Metal Aircraft

Also a new development type of the aircraft industry which well be demonstrated as a novelty for the first time at the Brno exhibition.



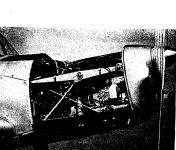
1748 L-60 — Agricultural Aircraft

Wing span 13.96 metres, length 8.54 metres, weight of empty aircraft 670 kg, load 445 kg, operating weight 1415 kg, maximum speed 191 km per hour, cruising speed 180 km per hour, minimum flying speed 12 km per hour, practical ceiling 5300 metres, take-off distance over 15 metre obstacle 227 metres, landing distance over 15 metre obstacle 195 metres, minimum take-off distance 123 metres, minimum landing distance 76 metres, range 700 km, fuel consumption at cruising speed 37.8 litres per hour.

The aircraft is driven by a type M 208B 6-cylinder flat twin operation.

The aircraft is driven by a type M 208B 6-cylinder flat twin engine. It is a multi-purpose aircraft intended particularly for crop spraying.

MOTOKOV





1749 **z-126**Same as item 1732.

1750 Type L-13 Glider

An all-metal two-seater glider of a new type which will be also on disylap for the first time at the exhibition as an interesting novelty.

1751 Type LF 109 Glider

Same as item 1733.

1761 KRU Universal Circular Saw

for cross and oblique cuts or angle cuts with inclined saw blade. By turning the motor to a vertical position and exchanging the saw blade for a cutting or some other tool the machine becomes a shaping machine. When fitted with a planing head straight or shaped joints can be made.

1762 Type EV Carpenter's Hand Drill

Drill holes up to a dimater of 60 mm even in hard wood. When a screwdriver blade or a socket with an internal hexagon is fitted to this tool it can be used also for tightening wood screws. The tilling supporting plate permits slanting holes to be drilled up to an angle of 45°.

Spindle speed Motor speed

450 r. p. m. 2 800 r. p. m.

Instruction, advice, suggestions as well as entertainment is to be found every month in the richly illustrated motorist monthly CZECHOSLOVAK MOTOR REVIEW, Praha 1, Ul. 28. října 13.

1763 Type JMP One-Man Saw

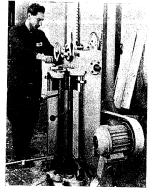
The saw serves for felling smaller trees, for shortening and for cutting off branches.

Design of I. C. engine

engine inclined cylinder
Method petrol, of operation two-stroke

single-

of operation two-stroke Cooling forced, air Cylinder bore Piston stroke Swept volume 71.55 Rated output 2 HP





1764 Type EH 250 Electric Hand Planer

Serves for machining the surface of soft as well as hard wood by accurate, smooth and perfectly level planing.

Planing width

250 mm

Planing width 250 mm Maximum depth of cut 3 mm Speed of cutterblock 4000 r.p.m. Output

of electric motor

0.8 kW

1765 Type EO 85 Electric Circular Hand Saw

Indispensable for erection work on construction sites, repairs of floors, building of roof structures, in shippyards and railways workshops, etc. The circular saw blade which is adjustable for the required depth of cut (from 0 to 25 mm) permits grooving, cutting of tenons as well as cutting at an angle and cutting off of wood. 1400 r. p. m., output of electric motor 0.75 kW.

Technical and scientific articles following the development of technology in motorism are regularly to be found in the illustrated periodical CZECHOSLOVAK MOTOR REVIEW, popular all over the world. It is published in English, French, Spanish and German.

178

MOTOKOV

MOTOKOV





1766 Type DŘ 150 Electric Hand Mortising Machine

Serves for accurate, heavy duty cutting of mortises of various sizes in soft and hard wood. Used chiefly for making tenon joints.

Maximum depth of mortise 150 mm Output of electric 0.96 kW

motor Speed 2 800 r. p. m.

Type MŘP Two-Man Chain Saw

For felling trees and cutting up logs in forests. The driving part is a single-cylinder air-cooled petrol engine. A friction clutch disengages the movement of the chain automatically at low speed. The cutting part can be turned from a vertical to a horizontal position. A protective bar protects the operator in case the chain breaks and prevents access of the operator's hand to it.

Cutting length of saw Cutting speed Maximum output

600 mm, 800 mm, 1000 mm 7 metres per second 3 800 r. p. m., 5.5 HP

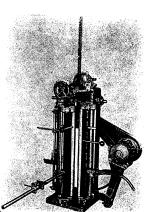


The machine moulds enclosed, semienclosed and open dove tails. It also shapes crossbar slots and levels edges of plates. It can make dovetail joints of any pitch by means of exchangeable templates, a dividing arm and suitable cutter heads.

Working width 800 mm
Maximum thickness
of wood 60 mm
Speed of cutter shaft 15 000 r. p. m.

Output of electric motor

1.5 HP



MOTOKOV

HBR 4 Hot Glung Machine

for feeding from the broad side. Controlled by a single hand wheel with fully automatic electro-hydraulic pressure regulator.

Number of heating plates Thickness of heating plates Number of clear layers 40 mm 15 1 050 mm Stroke Maximum specific pressure 25 kg per sq. cm. 747,5 tons Maximum total pressure
Number of pressure cylinders
Diameter of plungers
Maximum water pressure 260 mm 353 atm. Closing period of empty press, approx.

Time required to reach full pressure 12 seconds

70 000 kg

1770 XDV Quadruple Acting Machine

for production of wood wool

1771 FMA Automatic Pattern Makers Shaping Machine

for manufacturing of wooden articles of complicated shapes. Its design enables several operation with one clamping, which would otherwise require several individual machines. Especially the internal machining of paterns is substantially quicker and more accurate than on the existing machines.

1772 Type KSS Saw Bench for Jointing Circular Sections

Serves for the manufacture of rough cylindrical patterns glued together of circular layers. The jointing is done with a circular saw mounted on the shaft a special motor travelling on guideways and guided by 12 ball bearings. The safety is increased, in cases of sections of small diameters, by a lever clamping equipment. It can also be used as a cutoff and angle cutting saw for lengths up to 1500 mm. Speed 2800

1773 Type KVH Multi-Blade Saw Bench

Intended for the heaviest cuts by a single saw blade or for the cutting-up of laths by several saw blades. Suitable for furniture, motor vehicle body and box factories, etc.

> 100 mm with 350 mm Maximum height of cut

dia. saw blade 150 mm with 450 mm dia. saw blade 4.5 - 7 - 9 - 10 - 11 - 5 -14 metres per min. 13 - 20 - 23 -26 - 36 - 52 metres per min. Rates of feed

MOTOKOV

1774 Type HPK Portable Thicknessing Machine

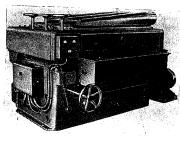
Serves for precision planing of wood. The feeds are power driven and operate by means of four driven rollers. The table has an automatic wedge type raising mechanism. The table rollers are easy to set above the surface of the table by means of a lever in accordance with the kind and humidity of the wood. The motor for the movement of the table is stopped, in its extreme positions, automatically by limit switches.

Maximum planing width Maximum planing height Speed of cutterblock Feeds: number range

800 and 1000 mm 200 mm 4300 r. p. m.

7.5 - 11 - 15 - 22.5 metres per minute 22.5—15, 2—11, 4—7.6 Number of cutters per cm

1775 THREE ROLLER KNIFE CRINDER



0.1 to 1 mm in 0.05 mm increments 0.1 to 2 mm in 0.1 mm increments 0.25 to 5 mm in 0.25 mm increments 0.5 to 10 mm in 0.5 increments

Type FMM Veneer Cutting 1776 machine

Serves for cutting veneer of well prepared, steamed wood. The working feed is driven by a ratchet arrangement which is operated by a striken is op rated by a striker attached to the ram of the tool slide. The following thick-nesses can be cut without the gears being changed:

Maximum working length 3 100 and 4 000 mm Maximum working width 1 200 and 1 200 mm Maximum working height 1 200 and 1 200 mm Main motor: output 20 kW and 32 kW speed 950 r. p. m. and 1430 r. p. m.

M 800 Veneer Peeling Machine

the thickness of the veneer can be adjusted by a single lever. A device for instantaneous stopping of the machine. Improved lubricating system. Produces veneers from 0.2 mm thickness.

MOTOKOV

1778 Small Type UMS (POKROK) Universal Machine

This is a portable planing machine for all branches of the wood-working industry. It surfaces, thicknesses, cuts, drills or mortises, for the machine can be converted into the machine concerned by a simple adaptation.

Width of roller 260 mm Diameter of roller 90 mm 2 HP Number of cutters Maximum depth of cut 4 mm 2 800 r. p. m.

1779 Type BAS Automatic Saw Grinding Machine 705 Lipuide Intended for grinding circular frame, and light and heavy band saws. It grinds the entire contour of the tooth in one operation the grinding being done either perpendicularly or at an alternating slant. All the standard shapes of teeth, i. e. straight teeth, wolf teeth as well as

round teeth and also intermittent teeth can be ground on it. Type G 71 Frame Saw

with hydraulic control. Intended for cutting beams and boards from with hydraulic control. Intended for cutting beams and boards from logs. For establishments where the working of large quantities of timber is demanded. The easily removable frame moves in the housing. Spontaneous movement of the frame for the fitting of saw blades can be stopped by an easily controllable brake. The log is fed into the cut by the bottom grooved rollers which have a large diameter and the drive of which is derived from the crank by means of link motion and is adjustable within wide limits.

Metalization Workshop with Equipment Metal Spraying Gun for reinforcing of weakened or worn-out parts which should be built

to reinforcing of weakened of worm-out parts which should be built up to the original size, for improving of parts with regard to good antifriction properties of sprayed metal, for protection against corrosion,

for protection against the effect of high temperatures (950 °C), for repairs of porous castings,

for repairs of cracks in castings for repairs of cracks in castings of cavitation defects, etc.,

for metal spraying of non-metallic objects to increase the surface hardness or to achieve electric conductivity, etc. for protection against cementation,

as an independent means of production.

MOTOKOV

1791 Calex Household Refri-1792 gerators, Compressor Type

Capacity 100 and 200 litres; precision workmanship, complete range of up-to-date attachments; hermetically enclosed refrigerator plant operating on freon 12. Low current consumption of some 1 kW per 24 hours annual average. rage.

ELEKTROSVIT Household 1793 Household Refrigerators, Absorption Type

Capacity 60 litres, motorless, containing no moving parts, con-sequently no worn parts. Completely automatic operation on electric current, gas or paraffin



oil (kerosene). Special design to suit the high temperature of ambient air in tropics.

PERUN TRI 15 Apparatus for Chemical Cleaning of clothes

Operates on trichlorethylene. Washing drum capacity 15 kg. Daily output approximately 180 kg. Daily output approximately 180 kg. Cleaning and distillation of used trichlorethylene is effected automatically while in operation, at trifling losses due to evaporation. Owing to this arrangement exceptional working economy. Simple and easy handling.

1795 P 650 Washing Machine for Steam Heating

Filling capacity to 40 kg dry clothes; electric motor of 0.75 kW.

1797 P 1600 Ironing Press, Steam

Output per hour 10 to 15 kg clothes; consumption 15 kg steam per hour; diameter of pressing roller 200 mm; drive by electric motor of $0.25~\mathrm{kW}$.

P 600 Hydro Extractor, Centrifugal

Filling capacity 16 kg dry clothes; drum diameter 600 mm.

1798 T 130 Electric Range

Suitable for: 3 x 380/220 V, 3×220 V, 3×110/120 V, 220 V, 110/120 V.

Inputs: Cooking plate, small Ditto, mediu Ditto, large 800 W medium 1 200 W large 1 800 W Baking oven 200 W Maximum overall input: 5 000 W

Are you interested in Czechoslovak products?

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.

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.

1799 VP 32 Alba-Cygnus Electric Washer

Single-phase electric motor 220/110 V (variable), 50 c/s, Input 250 W, speed: gyrator 1500 r. p. m., centrifugal hydroextractor: 1485 r. p. m. Tub capacity 35 litres, washing interval 2 to 5 minutes with a filling of 1.5 kg dry clothes; hydro-extracting interval one minute.

VP 52 Alba Cygnus Electric Washer

Specifiacations identical with VP 32. Special attachments: heater element 1 000 W, 220/110 V (variable) wheels for easy handling.

1801 CALORIA 114 Gas Range

Oven fitted with two burners: lower - for baking top - for grilling, alternative models: gas or liquid gas (propane-butane).

CALORIA 611 Gas Oven c/w Double Cooker

Alternative models: gas or liquid gas (propane-butane).

CALORIA Gas Heater

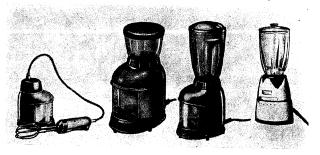
Radiative, with ceramic element, for gas or liquid gas (propane-butane).

CALORIA 811 Gas Frier-Cooker

Alternative models: gas or liquid gas (propane-butane).

CZECHOSLOVAK GLASS REVIEW a monthly of the Czechoslovak Glassand Ceramic Industry brings regularly to persons interested in this line information on the production and delivery possibilities of Czechoslovak Glass- and Ceramic works.

MOTOKOV



PRAGOMIX SPECIAL Model 030 Electric Mixer

5 speeds from 5 000 r. p. m. up to 10 000 r. p. m. under load; 220 V or 120 V, 50 c/s, maximum input 250 W.

1806-PRAGOMIX 1808 UNIVERSAL

Electric coffee grinder with mixer attachment and whipper attachment on flexible shaft; 220 V or 120 V, 50 c/s.

1809 ELECTRIX 401 Vacuum Cleaner

220 or 120 V, 50 c/s, Input 275 W, underpressure 950 mm water column.

1810 HS 530 Electric Shaver 220/120 V, 50 c/s, input 5 W, 9000 r. p. m.

1811 Model 033 Electric Cooker

220 V, 600 W, plate dia. 145 mm.

1812 Model 032 Electric Cooker

220 V, 1 200 W, plate dia. 110 mm.

1813 E 603 III Electric Drilling Machine

Capacity: in steel up to 4 mm or .157", in wood and light metal up to 6 mm or .236", 220 V, 110 V or 42 V; 50/60 c/s;

1814

input 120 W.

EV 123 Electric Drilling Machine

Capacity: in steel up to 23 mm or .908", in wood and light metal up to 30 mm or 1.2",

220 or 110 V, 50/60 c/s; input 640 W

The SKODA and TATRA automobiles have numerous advantages on which you will be informed by the CZECHOSLOVAK MOTOR REVIEW, Praha I, Ul. 28. října 13.

1815 EV 313 Electric Drilling Machine

Capacity: in steel up to 13 mm or up to 18 mm or .709".

10 or 110' V, 50/60 c/s; input 250 W.

1816 EŠ 110 Electric Screw Driver

Capacity: in metal 5 to 10 mm or .2 to .4".

1817 EGS 612 Electric Thread Chaser

Capacity: steel M 6 to M 10, light metal M 6 to M 12; 220 V, 110 V or 42 V; 50/60 c/s, input 250 W.

NJ 102 Electric Shears

Capacity: steel 2 mm or .08", speed 2 metres/sec; 220 V or 110 V; 50/60 c/s, input 220 W.

1819 EB 312 Electric Grinder Wheel dia. 120 mm or 4,72", 220 V or 110 V; 50/60 c/s; input

250 W. 1820 EB 15 Electric Grinder Wheel dia. 150 mm or 6";

3×380 V, 3×220 V, 3×125 V; input 400 W. 1821 MORA 242 Gas Range

Specification equal to MORA 244; extra: central lighting of cooker burners, inspection hole in baking oven and electric illumination of interior.

1822 MORA 241 Gas Range

For specifications see MORA 242; extra: Thermostatic control of oven burners.

1823 MORA 242 Gas Range

Universal (gas, propane-butane, methane) Two ovens: top for baking, low for grilling.

1824 MORA 231 Gas Range

Popular model; universal (gas, propane - butane - methane).

1825 MORA 310 Gas Cooker

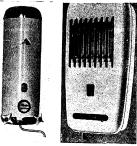
Universal (gas, propane - butane methane).

CZECHOSLOVAK ECONOMIC BULLETIN informs commercial circles and persons interested in this line on the trade relations of the building up. Published monthly by the Chamber of Commerce of Czechoslovakia.

186

MOTOKOV

MOTOKOV



1829 Thermostatic Controls-Sectional Views

1830

PO 13 Flow Heater, Sectional Views

1831 MAFLEX A 2 Grinding Machine 3×220/360 V; O.5 kW; 2 800 r p m; o

 $3\times220/360$ V; O.5 kW; 2 800 r. p. m.; shaft: dia. 15 mm or 6% length 2 mt or 6.6 ft; wheel dia. 100 to 150 mm or 4 to 6% .

1832 MAFLEX A 3 Grinding Machine

3×220/380 V; 1.3 kW; 2 800 r. p. m.; shaft: dia. 20 mm or 8".

length 2.5 mt or 8.2 ft; wheel dia. 100 to 150 m mor 4 to 6".

1833 MAFLEX FFO Grinding Machine

3×220/380 V; 1.6 kW; 2 800 r. p. m.; shafts: dia. 6 mm or 236";

3A220 300 v, 1.0 kW, 2 000 1. p. iii., shates, dia. 0 lillil of 200 , length 1 metre or 3.3 ft.

Speed 3 000 - 5 300 - 10 500; 18 500 r. p. m., dia. 10 mm or 4", length 2 mt. or 6.6 ft.

speed 1 150, 2 000, 4 000; 700 r. p. m.

Tools up to 6 mm or .236" dia.

1834 MAFLEX GO Grinding Machine

 $3\times220/380$ V; 1.6 kW; 2800 r. p. m.; shaft: dia. 15 mm or .6″, length 2 mt, or 6.6 ft., speed: $1\,400$ 2800—5600 r. p. m.

In all continents, in all countries with a progressive and mature technology the SKODA and TATRA makes have been known for many decades past.

MOTOKOV

1826 MORA PO 5 Gas Flow Heater

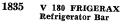
Output 5 lit./min. by 25 °C. Alternative models: gas, liquid gas (propane - butane, methane).

1827 MORA PO 13 Gas Flow Heater

For specifications see PO 35; cowl of up-to-date styling.

1828 MORA PO 35 Gas Flow Heater

Output 13 lit./min. y 25 °C, automatic lighting safety device; alternative models: gas, liquid gas (propane - butane, methane).



Has four taps for an annual retail of beer of some 500 hl; refrigerator chamber for storage of bottled drinks with automatic refrigerator system.

1836 Air Compressor Plant

For temperatures to minus 40 °C; fitted with air well, electric motor of 0.5 HP and pressurestat for maintaining uniform pressure in pipe line.

1838 SA 900 Refrigerator Case

Suitable for boarding houses, diaries, sales of food stuffs and drinks. Maintains automatically an inside temperature of some —4 °C, has two entrance doors. Useful capacity 900 litres. Built-in refrigerator plant. Electric motor of 0.33 HP.

1837 Model HS 270/40 Laboratory Case

For temperatures to minus 40 °C; useful capacity 270 litres; with built-in refrigerator plant, filled with freon 12 coolant; with a single insulated door.

1839 CPV Cooler for Drinking Water

For offices, schools and workshops; cools drinking water from tap by 10 °C. Output per hour approximately 30 litres. Built-in air compressor of 0.75 HP. Top plate plastic with fountain outlet.

1840 HC 270/60 High Efficiency Laboratory Refrigerator Table

For temperatures down to 60 °C below zero; for testing material. Useful capacity 270 litres. Double sliding screens in top plate. Two-stage freen power plant built-in to RH part of table together with control board for instruments.

1841 Model HVS 900 Three-Shelf Glass Case for Self-Service

Useful capacity 900 lit. Outer dimensions $2\,140\times800\times1\,530$ m. Allmetal crate; garnish mouldings of plastic; plastic shelves; sliding doors glazed; built-in refrigerator plant in bottom part of case.

MOTOKOV

1842 Model OVSd 630 Refrigerator Glass Case for Self-Service

Top Part fitted with mirrors. Useful capacity 630 litres, all-metal frame, garnish mouldings and crates (shelves) of plastic; extension open; built-in refrigerator plant in bottom part of case.

1843 Model CS 630 Refrigerator Selling Table

Useful capacity 630 litres; outer dimensions $800\times2\,140\times900\,$ mm; panelled sides and doors in top half of rear panel; built-in refrigerator plant.

1844 DM 48 Evaporation Batteries for Freezing Plants

To be placed in the actual freezing plant hall; for temperatures down to -20° C, eliminating the fitting of individual evaporation containers; operating on freen; with duplex exhaustors; drive by electric motor; caloric output 2 800 cal./h., outer dimensions 1200×480×2100 mm.

1845 -

1848 Freon Refrigerator Air Compressor Plant

With built-in V 540 water cooled condenser of 4000 Kcal/h output; electric motor of 3 HP; sturdy up-to-date design for automatic operation.

Machine of outstanding quality, the individual organs of which form an assembly particularly suitable for trade refrigerator halls for meat, milk and other food stuffs. Weight approximately 260 kg.

1849 Twin Gas Cooker

A high stand incorporates a grill with a pan for gravy.

1850 Gas Hot Water Reservoir

Pressureless reservoir; lighting safety device closes the valve in case of extinguishing. Suitable for a bath tub with a by-pass for wash-up sink or basin.

1851 Bath Heater

Can be also placed on the wall to secure more floor space. Available also with ceramic radiative plate.

1852 Automatic Electric Range

Has a time-switch, transparent door and inside illumination of baking oven. Thermostatic temperature control enables pre-setting of required temperature.

1853 Twin Electric Cooker

Special arrangement enables baking as well.

190

MOTOKOV

1854 Model 203 Electric Iron with Thermostatic Temperature Control

Weight 1.60 kg, input 800 W; the control lever of the thermostat enables setting of required temperature according to the kind of material to be pressed. The thermostat then automatically maintains the required temperature height.

1855 Electric Iron with Thermostat and Moistener

Weight 1.06 kg, input 800 W; the control lever of the thermostat enables pre-setting of the required temperature according to the material to be pressed. The thermostat then maintains the temperature at the necessary height.

1856 Vertical Electric Boiler of 125 lit. Capacity

Has a bath-tub mixing battery and hand spray.

1857 Case-type Cloth-Drier for Sundry Household Clothes

1858 Hair Drier of New, Advantageous Line

1859 Electric Kitchen with Bath Room

Complete electric kitchen with the following equipment: Automatic electric range

Electric refrigerator
Electric washing machine with

drier
Through-flow water heater in sink

Drilux cooker

Iron with thermostat Electric kitchen robot with accessories and electric mixer Vacuum cleaner

Floor polisher

Other equipment including dishes.

Electric bathroom with electric storage water heater, electric heating, bath tub, wash basin and accessories.

1860 Gas Kitchen with Bath Room

Complete gas kitchen with the following equipment:

following equipment:
Automatic gas range
Gas refrigerator

Instantaneous gas water heater in sink

Hand operated kitchen robot Enamelled dishes Gas room heater

Gas bath room with instantaneous gas water heater, gas room heater, bath tub, wash basin and accessories.

1861 Kitchen with Coal Heated Bath Room

Complete coal and gas fired range Stainless steel dishes and other equipment

Bathroom with coal fired water heater, bath tub, wash basin and accessories.

Small Housing Unit - Bachelors Single-Room Flat with Kitchenette

A fitted-out single room housing unit with kitchenette, gas oven and two-burner cooker, mixer, stainless steel dishes, instantaneous water heater and other essential equipment.

MOTOKOV

Are you

interested in Czechoslovak products?

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



ABRASIVE PRODUCTS

Abrasive wheels
Abrasive paper
and cloth

REFRACTORY PRODUCTS

Dinas Magnesite Fireclay

BASALT PRODUCTS



Foreign Trade Corporation

PRAHA II, V JÁMĚ 1 — CZECHOSLOVAKIA

PragoExport

Textile of quality is guaranteed by Czechoslovak measuring instruments:

Yarn Testing Machine (Planiskop), Fabric

Strength Testing Machine, Automatic Moisture Testing

Machine, Waterproofness Testing Machine, Crease

Resistance Testing Machine, Yarn Tension Meter

and a number of other instruments which are indispensable for up-to-date textile laboratories and testing rooms

Inspect our instruments of quality

EXPORTED BY:

PragoExport

PRAHA — CZECHOSLOVAKIA

PragoExport

Textile Measuring Instruments and Supplements Technical Office Supplies Office Equipment

1901 Yarn Strength Tester

On this machine strength and tensility tests are performed on yarn, string bunches of fibre, and various other materials. These data indicate the properties of the yarn and must be known in the following textile production. The apparatus is of advantageous design and highly sensitive and is intended for laboratory and research work, as well as for routine tests in production.



1902 Electrically Driven Twist Tester

Tests and ascertains quickly the amount of twisting in single and doubled yarns.

1903 Cotton Wrap Reel

The purpose of this apparatus is to measure quickly and precisely the length of tested yarn which is then weighed on a quadrant balance indicating the yarn count.

1904 Yarn Quadrant Balance

For ascertaining the English or the metric count of yarns used in the textile industry. Range according to suspended length and type of machine.

1905 Dye Fastness Tester

The machine tests by the rubbing method. The dye fastness of dyed and printed fabricts, knitwear, leather, etc.

1906 Crease Resistance Tester

The amount of creasibility can be ascertained by various methods. This crease resistance tester tests according to the Soviet Standard Specifications GOST 3814-47. The fabric is zig-zag folded around 5 rulers and then laid below a two kilos weight for 20 minutes. Thereafter the sample is suspended from the string of the apparatus and after two minutes the length of the unfolded waveline is read on the scale.

1907 Heat Conductivity Tester

With this apparatus the heat insulating properties of fabrics, knitted material, leather, and imitation leather for garments is tested. The principle of the apparatus consists in ascertaining the time it takes for 50 °C warm water contained in a vessel around which the tested material is wrapped, to cool down to 40 °C, at a room temperature of 20 °C \pm 2 °C, and at a relative air humidity of 65 \pm 2 %.

PragoExport

1908 Thickness Meter

With a measuring precision of up to $1/100\ \mathrm{mm}$ this machine measures the thickness of fabrics, felts, leather, etc.

1909 Sample Bag

Textile samples contain a certain amount of moisture which is measured with precision instruments. These may not always be in the place and therefore the samples must often be sent to a testing laboratory. During the transport the samples must not change their moisture and therefore they are sent in this sample bag.

1910 Tensometer

The tensometer is used in the weaving industry for ascertaining the tension of warp and weft yarns during the winding, the twining warp beaming, sizing, and weaving. The use of a tensometer ensures production of fabrics of the correct width, and obtaining of the correct shed. The latter reduces the danger of the yarn breaking at high working speeds. When working synthetic textile fibres the measuring of the tension is indispensible if loss of stretch and formation of lustrous spots are to be prevented.

1911 Length Counter

For quickly measuring the length of fabrics of all kinds, laid out on cloth folding table or folding machine. The aparatus is floatingly arranged in a holder and so adjusted that the measuring wheels are pressed against the fabric under the required pressure which is adjustable with a weight. To prepare the length counter for work the measuring wheel with the centimetre scale is set to zero against the rigid mark, and the indicator of the metre scale is also set to zero.

1912 Fabric Marking Pen

The design of this pen allows safe use in the textile industry or in such other branches of industry where indelible and washproof marking of the product is required.

1913 Shuttle Strength Tester

For ascertaining the compressing force or tensioning effect of springs. It is used during the setting up of mechanical looms when the friction of the shuttle in the shuttle box the pressure of the arresting flap and the tension of the heads are to be ascertained.

1914 Picking Intensity Meter

196

This instrument is used for comparing purposes when setting up automatic looms of the Type Roscher and Hrdina which have a shuttle with a 30 mm clip, or for setting up other looms having the same shuttle box inside space as the mentioned type.

KOVOEXPORT, Czechoslovak Export Magazine of the Czechoslovak Light and Precision Engineering Industry.

1915 Blotting Capacity Tester

Use:

- For ascertaining the blotting capacity of blotting papers, filtering papers and mill-board.
- For ascertaining the amount of sizing of papers which to a certain extent repel water, ink, and printer's ink.
- For ascertaining the absorbing capacity of papers intended for insulating and impregnating purposes.

1916 Yarn Examining Machine (Planiscope)

The machine serves the purpose of examining and comparing yarns. The yarn is wound into boards of contrasting colours in dense evenly spaced turns from two cops simultaneously. As a result all the impurities in the yarn become distinctly visible, such as spun in dust, husks, crushed seeds notches of dead fibre, too thin or too thick spots, fluffines, etc. Therefore even very negligible difference between two kinds of compared yarn are visible.

1917 Quadrant Balance

is used for ascertaining the strength and density of fabrics.

1918 The Flax Gauge

serves for the ascertaining of the linen yarn thickness.

1919 Pirn Compactness Tester

The apparatus ascertains the compactness of wound bobbins and warp beams, i. e. the density and the tension of the wound yarn. Every kind of yarn can be tested with this apparatus with the exception of very fine special yarns which might suffer damage from the contact with the spring loaded pin. The correct density and tension of the winding is of great importance in the subsequent weaving.

1920 Textile Machines Accessories

Wooden:

Automatic pirns, warper bobbins and all kinds of other spools, all types of shuttles, picking sticks, etc.

Leather and paper:

Paper tubes and cones, leather accessories for looms and textile industry (pickers, buffers, spring buffers, picking straps, shaft straps, card clothing.

Metal:

Spindles, scrolls, rollers, temples, card and gill pins, travellers, wire healds, reeds, belt hooks, drop wires,

1921 Lesto-Apparatus

Used for measuring the length of fabrics.

PragoExport

197

PragoExport

1922 Ozalide Printing Machine Model KVS 100 "3

The machine is intended for multiplying ozalide material. It enables quick and immediate multiplying of technical drawings, production specifications, detailed calculations, and material drawn or printed on transparent paper.

1923 Humidity Tester

For ascertaining the humidity of textile materials.

1924 Hand Operated Twist Meter

For testing and ascertaining the amount of twist in single and in doubled yarns.

1925 Fabric Strength Tester with Recorder

A strength testing machine ascertaining the strength and the tensility of fabrics, knitted material, leather, wire, and other materials. The four testing ranges enable universal use in laboratories and test shops.

1926 Rotary Wear Resistance Tester

For ascertaining the wear resistance of fabrics in friction.

1927 Hygrostatic Conditioning Cabinet

For obtaining a certain humidity of textile samples. The desired humidity of $55\,\%$ at a temperature of 20 °C is obtained automatically.

1928 Staple Machine For ascertaining the quality of the staple.

1929 Tension Meter
For determining the tension of yarns.

1941 KINEX Drawing Apparatus

is a precision instrument for a drawing board (size 100×150 cm) with a universal stand which enables to set the drawing board into any position. Indispensable device for technicians, architects, trade schools, etc.

Jawa-ČZ motor-cycles and ŠKODA and TATRA motor cars are extensively exhibited at international fairs and industrial fairs all over the world.

1942

1943 C A 1 and C A 2 Drawing Apparatus

are small drawing instruments for horizontal drawing boards, suitable for technicians, architects, draftsmen, workshops, schools, etc. C A 1 is a larger and perfectly executed apparatus for drawing boards size 65×95 cm.
C A 2 is of a simpler execution for drawing boards size 48×68 cm,

C A 2 is of a simpler execution for drawing boards size 48×68 cm suitable especially for schools.

1944 PREMA Perspectograph Koveyet Moutmonice

designed according to Ing. Salner patent represents a specially simple drawing device, which enables point construction of a perspective drawing of any object by means of horizontal, longitudinal or side projection.

1945

1946 Sets of Mathematical Instruments

First-class mathematical instruments of all types for every requirement, from the most simple school type to the most elaborate one for complicated designing.

1947 Edge Binder

is used for binding edges of drawings (copies and originals) with a special adhesive tape to protect the edges of drawings from fraying, tearing or destruction.

1951

1952 Filing Cabinets

Cabinets for vertical filing, have 4 drawers which can be safely locked and in many cases are used as safes.

1953 Karto Cabinets

These cabinets are designed for horizontal filing of index cards. The advantage consists in quick finding of the relevant card the cards are placed on top of each other, the titles are well visible and consequently it is not necessary to "leaf" through cards.

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.

198

PragoExport

PragoExport

Sanitized Copy Approved for Release 2010/08/18: CIA-RDP81-01043R000500080001-3

Ceramics

Ceramic Products

Sanitized Copy Approved for Release 2010/08/18 : CIA-RDP81-01043R000500080001-3

1971 Abrasive Cloths and Papers

are used for hand grinding and polishing of wood, metals and plastics. Following articles are produced for industrial purposes: Ruby combination, endless corundum cloth belts, pads for footwear industry, Vulcan fibre boards, water resisting abrasive paper, etc.

1972 Abrasive Wheels

are manufactured of standard corundum under the trade mark of ELECTRITE A or of refined corundum called ELECTRITE 99. Both types are used for grinding tools and various kinds of steel.

1973 Silicate, Magnesite, Chrome-Magnesite and Fire-Clay Bricks o

Silicate bricks have a high cold crushing strength (1640—1680 °C) and are an important building material for Siemens-Martin electric arc furnaces, for coke and gas plants, glass and enamel furnaces and furnaces for zinc production, etc.

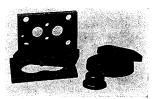
etc. Magnesite and chrome-magnesite bricks are mainly used in steel furnaces and cement kilns. They possess high refractorines over 42 Seger cones (2000 °C) and a high cold crushing strength approaching the cold crushing strength of silicate material for blast furnaces, pre-heaters of air, in gas, coke and glass works, in ceramic and chemical industries.



are used especially in coal mines, for pneumatic loading, further in hydraulic transport of coal, coke, ores, coal dust, slag, ashes, sand, etc.







ΚΟΥΟ

Measuring and Laboratory Instrument Sewing Machines **Tobacco Working Machine** Clocks and Alarm Clocks **Surgical Instruments** Office, Graphical and Statistical Machines Machines for making Cardboard Boxes Sports Arms, Cartridges, Ammunition Photo- Ciné- Optics Precision Tools and Measuring Instruments Textile and Finishing Machines Shoemaking and Knitting Machines Statistical Machines Telecommunication Wire Broadcasting H. F. Carrier Telephone for Power Stations

Telemetering Equipment Transmitters Television Equipment for Diversity Reception Televisors and television measuring instruments Receiving sets and Musical Cabinets Wireless Stations Magnetophones Railway Dispatching Equipment Equipment for Air Transport Loudspeakers, Microphones, Wireless **Parts** Electronic Microscopes Electronic Measuring Instruments Video components, electron tubes. semiconductors, selenium cells, lamps, fluorescent lamps, plane transistors, thermistors, silical diodes and mixers. Various devices employed in the vacuum technique.

2001- Maxigraph M6S. Universal Measuring and Graphic 2004 Instrument

Marks on a paper chart the average value of the load taken within each integration cycle, and indicates, by means of a separate pointer, the value of the achieved average load within the integration period. This instrument is supplemented by a signal box provided with a measuring instrument for indicating at arbitrarily set time intervals whether the supply of energy is above or below the set value. A signal is given on reaching the permissible value. This device is primarily intended for use in power and switching stations and industrial undertakings for the perfect control of the consumption of eletrical energy in accordance with the demand schedule and the agreed maximum.

2005 Three-Phase Three-System Four-Wire Watt-Hour Meter ET4

An integrating meter for direct measuring energy from 5 A to 100 A and 3 \times 500 V at any one frequency within in the range of between 40 - 60 c/s.

2006 Three-Phase Double-System Three-Wire Watt-Hour Meter ET3D

Two-rate tariff meter for direct measuring energy from 5 A to 100 A and 3 \times 500 V at any one frequency within the range of between 40 - 60 c/s.

2007 Three-Phase Three-System Four-Wire Watt-Hour Meter EI4DM

Two-rate tariff with maximum demand indicator for direct measuring energy from 5 A to 100 A and up to 3 \times 500 V at any one frequency within the range of between 40 - 60 c/s. This electricity meter indicates the whole consumption at two different rates (two-rate tariff) and the maximum average value of the load within a certain time interval - the so-called integration period.

2008 Three-Phase Three-System Four-Wire Watt-Hour Meter ET4M

With maximum-demand pointer, for direct measuring energy from 5 A to 100 A and 3 \times 500 V at any frequency of between 40 - 60 c/s. This electricity meter indicates the whole energy supplied, as well as the maximum average value of the load, within a certain time period, the so-called integration period.

2009 Switch-Over Clock H2DM

For changing-over the tariffs and switching on the maximum indicator of two-rate electricity meters with maximum demand indicator, They are equipped with a small squirrel-cage induction motor for a voltage of 120/220 V or 220/380 V, input 16 W. This clock has a three-day spring operation reserve.

KOVO

2010 Time Switch H2VS1

For automatic switching-on and off public illumination, illumination of shop windows, of neon advertisements, accumulating stoves, different appliances, etc.

It is equipped with a squirrel-cage induction motor for a voltage of 120/220 V, or 220/380 V, input 16 W. It has a three-day spring

operation reserve.

2011 Current Transformer

Bushing type, service voltage up to 0,5 kV, testing voltage 2,5 kV, primary currents from 100 to 600 A.

Output at 400 - 600 A $^{\circ}$ 30 VA in class of accuracy 1,5 current number n = 2,5

300 A: - 15 VA, in class of acc. 0,5 current number n = 3,5

200 A: - 7,5 VA in class of acc. 0,5, current number n = 5

n - 5 100 - 500 A: - 7.5 VA in class of acc. 3 current number n = 8 - 10 Secondary current 5 A.

2012 Current Transformer JVD

Service voltage up to 0,5 kV, testing voltage 2,5 kV, primary currents 50 - 800 A, secondary output 15 VA in class of acc. 0,5, and 30 VA in cl. 1, secondary current 5 A, or 1 A. 0

2013 Current Transformer JVP

For slipping over bus-bars, service voltage up to 0.5 kV, testing voltage 2.5 kV, primary currents $1\,000\,-\,2\,000$ A, secondary output 15 VA in class of acc. 0.5, or 30 VA in cl. 1.

2014 Auxiliary Current Transformes JVNS

Summation transformers, or with further tappings on the primary cr secondary side for different ratios up to 40 A. Secondary output 15 VA in cl. of acc. 0,5, or 30 VA in cl. 1, overcurrent number $\mathbf{u}=5-10$, secondary current 5 or 1 A.

2015 Seconds Meter

is used for accurate time measuring when calibrating and testing mechanical and electrical instruments and machines in factories, laboratories, calibrating bureaus and electrical switchrooms (f. i. when gauging time or distance relays).

rated voltage of the motor power consumption measuring range time error

110/120 V, 50 c/s 2.7 VA up to 200 seconds less then 0.02 sec.





from various branches of the Czechoslovak engineering industry displayed at the Exhibition in Brno:

Prototype of an air-blast circuit breaker with discon-

rototype of an air-blast circuit-breaker with disconnecting switch
Hydraulic drive of the HYDRANA rotary furnace
Medium-sized thrustrack cleaning machine
Wire-wound high-pressure vessel
1,500-kW packed power station Ammonia compressor 8 V Dust-proof switchboard

Unit-type switchboard Air-admission nozzles Desk switchboard Band oil filter

TECHNOEXPORT PRAHA CZECHOSLOVAKIA



Single-Phase Watt-Hour Meter 2017 EJE8

For direct measuring energy from 2,5 A to 80~A maximum, and up to 400~V at any one frequency within the range of 40 -

This electrity meter complies with BSS 37/1952. (Two different designs.)

2018

Single-Phase Watt-Hour Meter EJE 6

For direct measuring energy from 2,5 A to 20 A, and up to 400 V at any one frequency within the range of 40 — 60 c/s.

2019 Auto-Transformer

One phase, protected against touch, portable, primary 120 V or 200 V, secondary 220 V or 120 V, output from kVA to 5 kVA.

Three-Phase calibration Desk Veltechna CS III

For testing and calibrating single-phase and three-phase active and reactive power in testing stations and electricity meter in production shops.

Connected to a voltage of 3×380/220 V, 50 c/s. Number of electricity meters under test at-a-time:

single	phase											360
three	phase	un	to 50	Α								120
three	phase	un t	0.100	A	Ċ							60
tillec	Pilase	αрι	.0 100							Inc	out 6	kV
						7	Vei	2ht	930		2156	

2021 -

2023 Switchboard Instruments Hi 5

For mounting into switchboards, in angular semi-enclosed housing, back connections. The housing is pressed of black electro-insulating material. The measuring system is either of the moving-coil type DHi5 or electro magnetic type EH15.

Delivered as voltmeters, ammeters, wattmeters, phasemeters.

2024-

Ship Switchboard Instruments HR 16/L 2029

Ship Switchboard Instruments HR 16/L For mounting into switchboards, in angular semi-enclosed housing, back connection. The housing is pressed of black electro-insulating material. The measuring system is either of the moving-coil type DHR 16/L or electromagnetic type EHR 16/L. Delivered as voltmeters, ammeters, wattmeters, phasemeters, frequency meters, speedometers. These instruments are constructed for very heavy service conditions with temperature variations of from -25° +60° relative humidity 92 ± 32 %.

2030

2031 Switchboard Instruments in Profile Design, Pp4 and Pp6

For horizontal or vertical mounting into switchboards. The housing is pressed of black electro-insulating material. The measuring system is either of the moving-coil type DPp4-6, or the electromagnetic type EPp4-6. Supplied as voltmeters, ammeters, wattmeters, phasemeters, frequency meters.

2032

2033 Switchboard Instruments, DHR3, DRH5 and DHR8

Moving-coil instruments for measuring direct currents or voltages, mainly in the field of light current electrical engineering. They are constructed for use in connection with contact rectifiers DsHR or thermocouples DtHR for measuring high frequency alternating currents and voltages.

The angular semi-enclosed housing is pressed of black electro-insulating material.

2035 Graphic Instrument RgF

These are instruments for producing a graphic record of the voltage, current, energy, power factor, etc. as a function of time in A. C. and D. C. installations. They can be delivered foor flush-mounting, projecting-mounting, or in portable design. They are provided with black enamelled metal casing.

2036 Box Type Electromagnetic Voltmeter Es3/III

or ammeters designed for operation in localities containing explosive and inflammable materials and gases. In connection with the flame-proof box they present a unit in firm enclosure. The measuring system is accommodated in a black enamelled cast-iron box.

2037 Box Type Electro-Magnetic Voltmeters Es5

cr ammeters, bottom connections. The black-enamelled waterproof cast-iron box is designed for mounting on switch-boxes.

2038 Wall-Type Synchronising Arm, RSyO

For synchronising or controlling the parallel operation of machines in power stations. The synchronising arm comprises a double frequency-meter, double volt-meter and synchroscope. All these instruments are accommodated in a common black-enamelled metal case designed for wall-mounting by menas of 4 screws.

Motor-cyclests who are exacting with regard to the quality and output of their machines ride on JAWA-ČZ.

2039 Wall-Type Synchronising Arm RVO

For synchronising and controlling the parallel operation of machines in power stations.

The synchronising arm comprises a double frequency meter, double voltmeter, zero voltmeter, and two lamp holders for the synchronising bulbs,

The synchronising arm RVO is constructed exactly as the RSyO type.

2040 AVOMET-Unit 1200

Comprises the universal Avomet instruments covering 34 measuring ranges for measuring alternating and direct current and voltages, shunt 60 mV for 30 A and 120 A, current range, 15, 25, 50, 100, 150, 300 A, slip-through bus conductor for the measuring transformer, series resistor for $1\,200$ V D. C. and A. C.

2041 Small Wheatstone Bridge OMEGA I

In portable design for quick measurement of fix ohmic resistances of from 0,05 to 50 000 $\Omega_{\rm .}$

2042 Small Wheatstone Bridge OMEGA II

For the quick measurement of fix ohmic resistances as type OMEGA I, with the possibility of measuring electrolytic resistances by means of alternating current and a hammer for abt. 800 c/s with a telephone receiver instead of a galvanometer. A triple-pole change-over switch located on the instrument box serves for the purpose of selecting the kind of measurement.

2043 Small Wheatstone Bridge OMEGA III

Used for the measurement of small resistances of from 0,0001 to 20 Ω with the aid of an auxiliary, external source of abt. 2 V and 3 A maximum.

2044 Insulation-Resistance Meter MEGMET 1000

Suitable for use on D. C. and A. C. networks, electric machines and installations. The measured insulation resistance of the tested equipment is read on a scale directly in $M\Omega.$ These instruments are manufactured in three types, in compliance with Standard Specifications IEC, BSS, ESč.

2045 Farthing-Resistance Meter, TERROMET

Intended for the measurement of resistances of lightning arresters, heavy and light-current installations and protective equipments. It is also suited for the measurement of fix non-inductive an non-capacitive resistances.

2046 Instrument for the quick and dependable measurement of protective systems NULLOMET

For all electric machines and appliances where the neutral wire is employed as earthing conductor.

KOVO

211

K

2047 Measuring Set - Box Q

Serves for all routine measurements of current, voltage and energy in industrial installations. This set covers all requirements of engin-cers employed throughout the industries. Fundamentally, this is a small portable testing station comprising all necessary measuring instruments.

Universal Measuring Instrument AVO-M

Comprising 19 measuring ranges for direct and alternating currents and voltages up to $10.000\ \text{c/s}.$

Small Portable Compensator THERMOMET

Intended for the quick measurement of voltages up to 50 mV by means of the compensation method, i. e. under no-load condition of the tested source, and for the measurement of thermo-couples Fe-Ko, CH-A (Ni Cr-Ni) and Pt Rh-Pt directly in centigrades corresponding to the basic temperature of the junctions 0° C.

2050 Small Compensator MK

In portable design, serves for quick measurements of voltages of from 0-80 mV by means of the compensation method, i. e. at no-load condition of the measuring source.

2051 Universal Measuring Instrument UNIMET

Used for measurements in service, erection works and laboratories. It measures directly direct and alternating currents and voltages, capacitive resistances, delivered energy, and the level of 1. f. signals. This instrument comprises altogether 42 measuring ranges without using an external, auxiliary equipment.



Clamping = Type Voltammeter Ds K 65

Intended for the measurement of alternating currents and voltages without breaking the measured circuit. The conductor must be singlepole, and may be armoured.

Ranges: - 15 - 30 - 60 - 150 - 300 - 1000 A

2053 Clamping-Type Ammeter SKr 86

Intended for the measurement of direct currents without opening the measured circuit. The conductor must be single-pole, and may be armoured.

Range: — up to 1 000 A, service voltage 22 kV, test voltage 86 kV.

2054

2055 Single Drum = Type Sliding Resistors OPK OOPK.

Employed wherever it is necessary to insert into a circuit a variable resistance for the purpose of current regulation. It can also be used as a potentiometer (potential-divider).

Small portable Voltmeters or Ammeters DtLi

This is a moving-coil instrument with thermal rectifier, intended for measurements in high-frequency A. C. circuits. These instruments indicate always the R. M. S. value, also for non- sine-shaped current-wave forms. Also interrupted and direct-currents can be measured. Class of accuracy 0,5 % $\!\!\!/$

2057 Small Portable Laboratory-Type Electromagnetic Voltmeters or Ammeters ELi

Intended for measurements of alternating currents and voltages at frequencies of 15–100 c/s. Class of accuracy 0,5 %.

Small Portable Laboratory Frequency-Meter, KLi

For measuring the frequency of an alternating current within the range of 45—55 c/s. Class of accuracy 0.5 %.

2059 Laboratory Current-Transformer SLi

Form part of the outfilt of the series Li laboratory instruments, and is used for-extending the current-ranges of type ELi Ammeters and Type GLi Wattmeters up to 600 A. Class of accuracy 0,2 %.

Series Resistors RLi

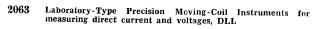
Intended for extending the current-ranges of the following instruments:

DLi — voltmeter 60 mV, 5 Ω PLi — wattmeter with voltage-range 60 V, 33 % Ω GLi — wattmeter with voltage-rang 60 V, 100 Ω .

2061 Laboratory Precision-Instruments-Ammeters, Voltmeters- or Wattmeters, PsLL 2062

Serve to measure accurately the values of direct and alternating currents. They are suitable for all measurements where a maximum accuracy is required.

The SKODA and TATRA automobiles have numerous advantages on which you will be informed by the CZECHOSLOVAK MOTOR REVIEW, Praha I, Ul. 28. října 13.



They can be suitable employed for all measurement where a maximum accuracy is required.

Laboratory-Type Precision Tongue Frequency-Meters KLL

For measuring technical frequencies in A. C. networks, for tests and measurements in laboratories, testing and calibrating stations.

2065 Laboratory-Type Precision Power-Factor Meter CLL

Used in laboratories and testing stations. They are supplied either in single-phase or three-phase design, and for measurements in inductive and capacitive circuits.

Laboratory-Type Precision Current-Transformer SLL

Intended as part of the outfit of laborary instruments—series LL. Employed in connection with the type PsLL Ammeter, 5 A, or with the type PsLL Wattmeter, for extending the current range up to 100 A.



Laboratory Shunt-Resistors BLL

Supplied as auxiliary outfit of the type LL laboratory instruments for the purpose of extending the current ranges.

Measuring Set DG2 + OS 20.

Comprises a mirror galvanometer with an accuracy of 10-9 A per grade on the scale, illuminating and reading parts. This set is used for measuring extremely small currents in laboratories, testing and calibrations of the scale of the sca

2069 Laboratory Pointer Galvanometer DG

Intended for measuring extremely small currents in laboratories, testing and calibrating stations.

2070 Standard Resistors RN

Used as primary standards for the basic decadic resistance values for the most accurate measurements in laboratories.

Weston Cell, W 100

214

Employed as primary standard cell and prepared according to international specifications, having electrodes of mercury and cadmium amalgam in a saturated electrolyte of cadmium sulphate. Suitable for all measuring methods where it does no supply current, particularly for compensation measurements.

2072 Large Laboratory Compensator QLK

Intended for the most precises measurements of voltages um to 1,5 $\ensuremath{\text{V}}$ (thermocouples and standard cells) by means of the compensation method. When supplemented by auxiliary outfits the compensator can be applied for measuring D. C. voltages up to 750 V, for measuring direct current with the aid of standards RN, and for measuring ohmic resistances with the aid of standard resistors RN.

2073 Desk Set of the Large Laboratory Compensator, QSLK

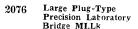
Serves for most accurate measurements of voltages up to 1,5 V by means of the compensation method, for measuring of D. C. voltages up to 750 V, direct currents, D. C. voltages and currents up to 710 V in short time intervals, and ohmic resistances.

2074 Small Laboratory Precision Wheatstone Bridge — with Handle ML

For routine measurements of resistances in laboratory testing and calibrating equipments.

Large Laboratory Precision Wheatstone Bridge — with Handle, MLL

accurate measurements of resistances in laboratories, testing and calibrating stations.



In Wheatstone connection serving for most accurate measurements of resistances up to abt. 11 $M\Omega$ in laboratories, testing and calibrating stations.

$\begin{array}{lll} \mathbf{Small} & \mathbf{Handle\text{-}Type} & \mathbf{Precision} & \mathbf{Laboratory} & \mathbf{Decadic} & \mathbf{Resistor} \\ \mathbf{XL} & & & & & & & & & & \\ \end{array}$ 2077

For routine measurements in laboratories, testing and calibrating stations.

2078 Large Handle-Type Precision Laboratory Decadic Resistor XLL

For accurate measurements in laboratories, testing and calibrating stations.

Large Handle-Type Precision Laboratory Decadic Resistor XLLk 2079

For accurate measurements in laboratories, testing and calibrating stations.

Technical Compensator QTK

Intended for quick and accurate measurements of D. C. voltages of from 10 μ V up to 600 V without current-load of the measuring source. Its field of application being very wide it is particularly suited for measuring the voltage of thermocouples, the voltage of D. C. sources, for testing the calibration of measuring instruments such as voltmeters and ammeters, and for measuring resistances with the aid of standard resistances. standard resistors.

2081 Measuring Bridge MGK

Intended chiefly for use in the telecommunication techniques for which it is particularly constructed. It can also be employed, without any adjustments in power electrical engineering.

2082 MLG SMALL HANDLE-TYPE RESISTANCE BRIDGE

For routine measurements of resistances in laboratories, testing and calibrating stations; the bridge is arranged in Wheatstone connection.

2083 QKM Special Compensator

Used in research and development of petroleum sources; a mono-cell $1.5\ kV$ is used as the inner voltage source.

2084 Switchboard Instruments with 240° Scale

Switchboard instrument of medium size, square shaped, all types and $^\circ$ ranges for measuring direct and alternating currents. Their scale is double that of the 90° scale instrument of equal overall dimensions.

2085 Switchboard Instruments with Rotating Magnet R8

With square front 110 \times 110 mm and cylindrical tube 80 mm dia. Serve for measuring direct and low-frequency currents and voltages.

2086 Type DHR 8/z - Shock-Prof Instruments

Water-proof and shock-proof moving-coil istruments covering all standard ranges, for measuring direct current and voltage, and, in conjunction with dry or thermal rectifiers, also alternating currents and voltages.

These istruments are manufactured in three sizes:

DHR 8/z — square front 110×110 mm tube 80 mm dia, DHR 5/z — square front 70×70 mm, tube 50 mm dia, DHR 3/z — square front 44×44 mm, tube 30 mm dia.

2087 Frequency Recorder

I.ine recorder for voltages of 100 V and above, measuring range $45{-}55$ c/s, or $47{-}53$ c/c, respectively.

2088 D. C. Clamping-Type Ammeter

Intended for measuring current in D. C. and A. C. installations with exchangeable indicators for 60-200-600 A, and service voltages up to 650 V. Accuracy 2,5-5 %.

Instruction, advice, suggestions as well as entertainment is to be found every month in the richly illustrated motorist monthly CZECHOSLOVAK MOTOR REVIEW, Praha 1, Ul. 28. října 13.

2089 Radiosound

In conjunction with meteorological instruments. For determining atmospherical conditions in higher earth spheres.

2090 Thermograph

Recording instrument producing a grap's of room temperatures.

2091 Hygrograph

Recording instrument producing a graph of the relative humidity of air.

2092 Barograph

Recording instrument producing a graph of changes of the barometric pressure graduated in 1 mm Hg = 1 mm on the chart.

2093 Micrebarograph

Recording instrument producing a graph changes of the barometric pressure graduated in 1 mm Hg=2 mm on the chart.

2095 Small Aneroid

Instrument for measuring atmospheric pressure. Scale range 560—790 m Hg. Accuracy 0.2 m Hg per 10 mm Hg. Temperature correction — 30 to 50° C.

2096 Large Aneroid

Precision instrument for indicating barometric pressure, suitable for transport. The instrument is springmounted in a portable box provided with a handle. Scale range 500-800 mm Hg. Accuracy ± 0.1 mm per 10 mm Hg. Temperature correction -35 to $+50^{\circ}$ C.

2097 Pyranograph

registers automatically the amount of radiating energy (in gr/cal) falling on a level unit (1 sq. cm) horizontally placed in a certain time (1 min.).

2098 Direction Recorder

Instrument for recording wind direction in four main and four auxiliary directions. One revolution of the drum in 10 hours. Eight-day run of the clockwork.

2099 Triple-Pointer Anemo-

meter

For measuring the traveling distance of the wind over a selected time period.

2100 Anemometric Contact Head (Anemograph)

For precision measurement and registration of the average speed of air flow.

2094 Heliograph

Recording instrument producing a graph of the time and duration of sun radiation.



KOVO

2101 Ombrograph

For automatic registration of rain falls. 1 mm water fall = 5 mm on the graph. One revolution of the drum in 26 hours.

2102 Analytical Scale A 3

Single-dish scale for weighing quickly and precisely extremely small quantities, with optical reading of submultiples of milligramms. Capacity 200 gr, sensitivity 1/10 mg. Automatic adding of weights.

2103 Analytical Scale SMA

Semi-microscale for precision weighing with optical reading of submultiples of milligramms. Charge 100 gr, sensitivity 1/100 mg.

2104 Torsion Scale

Intended for precision weighing of small quantities, fibres, etc. Scale range 10 mg, sensitivity 0,02 mg.

2105 Corn Meter

(hectolitre scale), for determining the quality of corn by the weight of a certain quantity. Capacity 1 litre.

2106 Geliograph

Instrument for measuring and registering the quantity of snow fall.

2107 Manometer

Graphic instrument for precision measuring and recording of pressure in boilers, pipelines, etc. on chart rolls.

2108 Thermometer.

Recorder, mercury, capillary, for remote measuring of heat in boilers, pipelines, etc.

2109 Thermometer

Dairy thermometer with dial chart, for remote measuring, mercury filled. Range \div 30 to \div 100° C.

2110 Thermometer

Recorder with strip-chart, for remote measuring, capillary type, range -35 to $+600^{\circ}$ C.

2111 Line Recorder

Impulse type, fourteen graph, for controlling and recording the operation of certain machines and equipments, such as presses, pumps, vulcanization equipments, mixers, etc.

2112 Receiver

Recorder with strip-chart, for receiving impulses corresponding to changes of level, producing a graph on a chart roll. Impulses are transmitted by a limnigraph.

2113 Limnigraph IBA

Remote-recorder transmitter for registering the water level on a point remote from the measuring point.

2114 Dam Tensometer

String-type electro-acoustic instrument for measuring the tension in concrete structures (dams, etc.)

2115 Dam Thermometer

String instrument for measuring the heat inside concrete structures.

2116 Hair Hygrometer

For measuring relative humidity of air.

2117 Optical Kymograph

Instrument recording phenomena in relation to time, with photo-recording over a galvanometer.

2118 Mechanical Kymograph

Instrument recording phenomena in relation to time, by mechanical means on a sooted paper strip.



2119 Vibrator

Supplied with a set of laboratory sieves for determinning the size of grains, of pulverized materials.

2120 Micro-Polarograph

For quick chemical analysis by the polarogrophic method. Suitable for field work, driven by a clockwork; photo-recording.

2121 Interflex

Box-type galvanometer. Suitable for potentiometric, calometric, etc., measurings. Exchangeable scales graduated in pH, millimeters, Millivolts, absorption and extinction. Galvanometer 10-9 A.

2122 Galvanometer Z

Double circle type with suspended coil for measuring small direct current, sensitivity 10-9 A.

Galvanometer N

With moving coil mounted on a stretched hair. For measuring small direct current and voltages. Sensitivity 10^{-9} A.

2123 Vertical Reading Device

For objective reading of galvanometer deflections. Vertical arrangements.

Horizontal Reading Device

For objective reading of galvanometer deflections. Horizontal arrangement.

2124 Centrifuge

Laboratory type Chirota for centrifugal work in laboratories, universal design with adjustable deflection and angle heads, with vessels for 50, 100 and 200 millilitres, and inserts for retorts 15 ml for Wassermann vessels and haematocrite. 8 000 revolutions.

2125 Centrifuge

Laboratory medical type Media 815 for sedimentation of different substances. For plane precipitating of eight pendulums, and 15 ml, or a Wassermann vessel, or haematocrite. Maximum revolutions per minute 4 200 = 3 200 g.

2126 Aeroscope

For ascertaining the number of microbes in the atmosphere for the purpose of testing the purity and sterility of the air in operating theatres, nursing homes, nursery schools, dairies, etc.

KOYO

219

2127 Vibrator

Type »Kahn« for mixing solutions, making emulsions, etc.

2129 Drying Box LS 110

For drying and heating various materials, for sterilizing, etc. Automatic heat regulation up to $200\,^{\circ}\text{C}$. Enforced circulation of hot air. Dimensions $110\,\times\,90\,\times\,60$ cm.

2130 Drying Box LS 60

For drying and heating various materials, for sterilizing bandages, surgical instruments, etc. Automatic heat regulation up to 200 $^{\rm o}{\rm C}.$ Useful dimensions 60 \times 50 \times 40 cm.

2131 Thermostat

Bacteriological type TH 60, for sheltering specimens and keeping various materials under accurate and steady temperatures. Temperature range $25-60\,^{\circ}$ C, sensitivity \pm 0,1 $^{\circ}$ C.

2132 Watermeter

Single inlet 13 mm dia. For measuring water consumption in houses, households, and small industrial plants. Capacity 3 m³/hour. Sensitivity 18 litres an hour.

2134 Watermeter

Screw-type »Woltman« 100 mm dia for measuring the water consumption in large industrial undertakings. Capacity 400 m³ per hour.

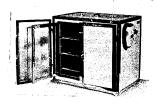
2135 Watermeter

Hydrant-type for direct measurement of water from hydrants. Watermeter mounted in the hydrant extension.

2128 Polaroscope

System Heyrovský-Forejt, electronic device for quick analysis of solutions by the method of oscillographic polarography.





2133 Multi-Inlet Water Meter

Diameter 40 mm for measuring water consumption in houses and industrial enterprises. Flow 20 cu. m/h, sensitivity 100 l sec.



2136 Condensate-Meter

For measuring the steam consumption in buildings with central heating.

2137 Watermeter

Combined for measuring small and large water consumptions. Automatic change-over to the small or large flow. The diameter of the small watermeter is $25\,$ mm, of the large one $80\,$ mm.

2138 Watermeter

Volume watermeter for precision measurement of water consumption. Volume-type measuring system.

2139 Watermeter for Boilers

For measuring the water consumption of large steam boilers.

2140 Watermeter

Watermeter with removable construction for measuriung the water consumption of large steam boilers. When troubles occur the mechanism can be removed without interfering with, or interrupting the operation of the plant.

2141 Gasmeter PS2

For measuring gas consumption in households. Capacity 2 m^3 per hour. Dry construction.

2142 Gasmeter PS 6

For measuring gas consumption in households or smaller industrial plants. Capacity 6 m³ per hour. Dry construction.

2143 Gasmeter PS20

For measuring gas consumption in industrial plants. Capacity 20 m³ per hour. Dry construction.



2144 Gas Meter

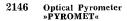
Laboratory gas meter for laboratory measurements of the quantity of passing gas and, simultaneously, temperature measurements.

2145 Thermostatic Bath

Serves for the Quick test, with condenser illuminating the water bath. Contact thermometer for 37, 38, 42, and 56 °C. Heating element 180 W. Stirrer about 800 r. p. m.

KOVO

221



Serves for measuring high temperatures up to $2\,300$ $^{o}\mathrm{C}.$ Two temperature ranges 500 to $1\,500$ $^{o}\mathrm{C},$ and $1\,200$ to $2\,300$ $^{o}\mathrm{C}.$

2147 Resistance Thermometers

Resistance thermometers with various ranges up to 550 $^{o}C,$ with resistance element Pt, 100 Ω at 0 $^{o}C.$

2148 Pyrometers

Pyrometers with various thermocouples (FeCo, NiCrNi, PtRhPt).

2149 Locomotive Pyrometer

With thermocouples CuKo, measuring range 20 - 450 $^{\circ}$ C.



2150 Indicator, type KV

Type KV indicator with cross $\boldsymbol{-}$ coil measuring system for connection to resistance thermometers.

2151 Temperature Controller with depression mechanism

Type RD dotting heat controller with moving-coil for connection to thermocouples.

2152 Ring Scale

Low-pressure graphis ring scale for measuring flow or pressure, with strip-chart recording mechanism.

2153 Low-pressure Ring

Indicating instrument for measuring flow or pressure.

2154 Floater-type Flow Indicator

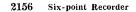
222

Type MUP 100 for service pressures up to 100 kg per cm² with counter.

2155

Floater-type Flow Recorder

Type MZP 100 with strip-chart recording mechanism, for service pressures up to 100 kg per cm² with counter.



Type DZb6, with moving - coil measuring system for connection to thermocouples.

2157 Level Indicator

Remote-indicating level gauge, type MS 100 (floater manometer).

2158 Electrical Fume-Gas Analyser

Type REGULA, measuring range 0-20 per cent CO2 and 0-4 per cent CO \pm H2.

2159 REGULA Electromagnetic Solenoid Valve

is used for automatic regulation of small flows.

2160 REGULA Diaphragmatic Regulating Valve

for regulation steam pressure, etc.

2161 Lever Servomotor

is used for automatic regulation of various shutting devices such as slides, flaps, etc.

2162 Servomotor With Rotary Motion

is used for automatic regulation of various shutting devices.

2163 Servomotor With Straight Line Motion

is designed for automatic regulation of various shutting devices.

2164 Complete Cabinet With Two Flexible REGULA TORS

There are two oil regulators: pressure, quantity, level, etc.

2165 REGULA Distributing Box

is a complete distributing panel with instruments for measuring and regulating of steam boiler operation.

2166 Electrical Blood-Corpuscule Counter

Serves for determining blood corpuscules by means of the method of diffused reflected light.

2167 Tension Meter

Double-duct resistance tensiometer for static and dynamic measurements in components and constructions subjected to stresses.

2168 Optical Vibration Meter

Serves for determining all kinds of vibrations, for precision balancing of rotors of motors, turbines, etc.

2169 Floater-Type Flow Recorder

(Rotameter). For measuring and recording the instantaneous flow of liquid or gas.

KOVO



2170 Floater-Type Flow Indicator

For remote indication (rotameter) of the instantaneous flow of liquid or gas.

2171 Laboratory Floater Type Flow Meter

(Rotameter). For measuring the flow of liquid and gas. With five exchangeable tubes and floaters.

2172 Thermostat

With water mantle and cooling for keeping bacteriological cultures at accurate temperatures that may also be below the room temperature. Temperature range ± 4 to $\pm 60\,^{\circ}\mathrm{C}.$ Automatic cooling.

2173 pH-Meter Maltoscope III

Direct inducing electronic pH-meter for high and low resistance glass electrodes. Accuracy 0,05 pH. Ranges 0-800 mV, 600-1400 mV, 0-8 pH, and 6-14 pH. Incoming resistance above 10^{11} ohms.

2174 pH Meter Multoscope IV

Portable case-type electronic pH-meter for high and low resistance electrodes. Accuracy 0,05 pH = 5 mV 600–1 400 mV, 0–8 pH and 6–14 pH, incoming resistance above $10^{11}~\Omega.$

2175 pH Meter Multobat

Electronic instrument in portable case for measuring the pH value directly in service. Specially arranged immerson glass-electrode in conjunction with a silver electrode Ag (Ag-Cl). Range 0–8 and 6–14 pH. Incoming resistance $10^9~\Omega$.

2176 Electronic pH Recorder

for measuring waste water, direct measuring in ducts, etc. Rigid electrode adapted for fast flowing water. Cable 25 m.

2177 Bridge-Type Conductoscope

Instrument for measuring obmic resistances, capacities specific resistances of electrolytes and for conductrometric titration. Two scales: specific and percentage +20 to $-17\,\%$. Frequencies $50-5\,000$ c/s. Ranges $0.05\,-20$ M $\Omega\,-10$ pF to $20~\mu\mathrm{F}.$

2178 Titroscope

For potentiometric titration, measuring the pH value with all kinds of electrodes except glass electrodes. Used also as microammeter, millivoltmeter, etc. Ray may be changed-over to three scales, pH, millivolt, and millimetre.



2179 Seitz Filter

300 mm dia 20 chambers, transportable, for filtering and draining deposits of bacteriological solutions.

SWISSAIR

Schweizerische Luftverkehr A. G. Swiss Air Transport Co. Ltd.

PRAHA II (ČSR) Vodičkova 34

Telephon: 23 76 24 22 73 70

Telegramm: SWISSAIR

Athenai Barcelona Basel Beirut Beograd Bern Bruxelles Cairo Dakar Damaskus Düsseldorf Frankfurt Genève Hamburg Innsbruck Istanbul København Lisboa London Madrid Manchester Milano München New York Nice Palma de Maliorca Paris Praha Recife Rio de Janeiro Roma

São Paulo

Shannon

Stuttgart

Wien

Zürleh

Tel Aviv - Yafo

Amsterda **



2180 Ultra-Sound device LP 400

Crean high-frequency output of the quartz 400 W. Selt-frequency of the generator 1 Mc. For research, emulgation, etc.

2181 Metal-Plating Device

Intended for metal-plating under high vacuum. For metal plating of non-electrical and electrical materials by means of metal evaporation. For depositing thin metal-layers of the order of molecules and above. For metalplating optical components, mirrors, reflectors, instruments, etc.

2182 Single-Cell Photo Colorimeter

For measuring the concentration of solutions by the colorimetrical method.

2183 Calorimeter

For determining the caloric value of solid fuels by means of measuring the combustion heat.

2184 Conductometer

Sandera Conductometer for conductometrical analysis, determining ashes for the conductrometrical titration and for quick determination of the content of anorganical components in solutions.

2185 Laboratory Mixer

Electrical mixer with a set of stirrers for longtime stirring of solutions. Speed regulation.

2186 Laboratory Mixer

Electromagnetic type with heating plate for long-time stirring of solutions and potentiometric titration.

2187 Titrating Mixer

It serves for potentiometric titration and simultaneous stirring and heating of solutions, with electrode and thermometer holder.

2188 Flash-Point Instrument

Flash-point instrument in open crucible intended for determinning the flash-point of inflammable liquids, particularly oils, within the range of 120 to 350 °C. Automatic burner movement.

2189 Mac Leod Vacuum Gauge

Serves for measuring the degree of vacuum within the range of 10 mm, and 0,01 mm Hg.

2190 Pirani Vacuometer

for measuring vacuum in the range from 10-1 mm Hg to 10-4 Hg. The instrument works on the principle of thermal conductivity of heated filament at different pressures.

2191 Manometric Instrument

Van Slicke manometric instrument for detecting gases ($CO - CO_2 - O_2$) in blood and other solutions, extractions in vaccum, and manometric measurements.

2192 Viscosity Meter

Engler viscosity meter for measuring viscosity of oils by means of the Engler method.

2193 Electrical Vacuum Tester

Serves for detecting vacuum in glass tubes, electric bulbs, electronic valves, etc. Also for determining insulating capacity of glass, ceramics. plastic materials, insulating paper, etc.

2194 Electrodes

For measuring the pH value. Various kinds of metal and glass electrodes for measuring the acidity and basicity of solutions.

2195 Pumping Unit

Intended for producing low and high vacuum. Pre-vacuum rotating oil-pump capacity 7 m³ per hour, with final vacuum 10-2 mm Hg in conjunction with a diffusion paraffing pump, capacity 10 1 per second, and final vacuum 10-6 mm Hg.

2196 Diffusion Pump

Diffusion paraffin pump. Pumping speed 70 l per second, final vacuum $10^{-6}~{\rm mm~Hg}.$

2197 Rotating Pump

Single step rotating oil pump, capacity $30~{\rm m}^3$ per hour, vacuum $10^{-2}~{\rm mm}$ Hg.

2198 Autoclaves

Rotating high-pressure autoclave recorder for chemical operations under high pressure and temperature. Capacity of the steel vessel 1,5 or 2,5 litres. Pressure 320 kg per cm², temperature 350 °C. Pressure recording, temperature indication.

2199 Polarograph LP 55

With photo-recording for carrying out chemical analysis by means of a mercury drop electrode. New patent construction with vertical projection of the galvanometer beam, for precise scientific work

2200 Polarograph LP 54

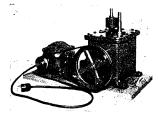
Manual type serving for polarographic analysis of substances, with hand recorded curve directly on the working spot. Readily portable.

2201 Tar Separator

Intended for determining the quantity of tar in fumes and generator gases. Suction capacity 3-7 l per minute, measuring vessels 100-200 and 300 cm³. Voltage in the condensing chamber adpustable from 10-15 kV. Temperature 120 °C.

2202 Device for Determining the Octane Number

Serves for testing the resistance to detonations of motor fuels (petrol, spirit, benzene, etc.).



2221 Device for Determining the Cethane Number

Intended for testing the self-inflammability of motor petroleum by subjecting it to the effects of pressure and heat.

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.





2222 T 132 Sewing Machine

A modern portable sewing machine with a free arm (for darning, etc.), is provided with an electromotor and built-in light. Sews straight or zig-zag stitch.

2223 L 233 Sewing Machine

A household sewing machine with a straight or zig-zag stitch and a large field ef use by housewives or seamstresses.

2224 L 121 Sewing Machine

A household sewing machine with a straight stitch. Has all the advantages of a simple machine. Sews forward or backward, is provided with an automatic bobbin winder and a drop feed, which enables embroidering and darning.

2225 T 124 Sewing Machine

A modern household sewing machine with a built-in light and several other improvements, It is equipped with an automatic bobbin winder and drop feed.

2226 T 224 Sewing Machine

is a single needle tailors sewing machine. A quiet run is its great advantage. It can be either treadle or motor driven.

2227 M 122 Sewing Machine

is a household sewing machine with a straight stitch, which is equipped for all types of sewing: hemming, felling, darning, embroidering, etc.

2228 Sewing machines - open section models

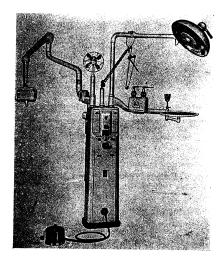
2229 Open section models of sewing machines L 233 and M 122 for showing the function of the mechanism.

KOVO

22

2241 C 6 Cigarette Making machine

Skoda C-6 cigarette making machine has an output of 540 000 glued seam or 450 000 crimped seam cigarettes per hour. The machine is equipped with new mechanism, ramming device and a new fully automatic cigarette cutter.



2251 Alarm-clocks

Various kinds of alarm-clocks, as e. g. type B-90 alarm-clocks, miniature type alarm-clocks, style and traveling alarm-clocks, etc.

2252 Clocks

228

Several kinds of clocks in various models, e. g. kitchen wall-clocks, striking kitchen wall-clocks, striking wall-clocks, striking mantle-piece-clocks, etc.

2253 Time-relay RZF

A town model showing the usea uniform time central electric clock equipment.

2261 Dental surgery equipment

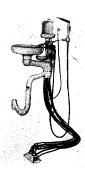
Chirodent equipped with Minident

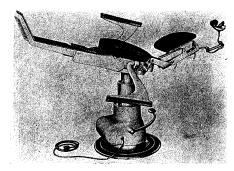
This set comprises all necessary instruments for general dental surgery including a built-in com-pressor. Minident Dental X-ray Apparatus of output of 55 kW and 12 Am, 50-60 c/s can be fitted on Chirodent equipment.

CZECHOSLOVAK MOTOR REVIEW, Praha I, Ul. 28. října 13, will gradly send you a complimentary copy.

2262 Dental Flushing Cuspidor w Warm and Cold Water Syringe

The dental flushing cuspidor has been designed to be mounted to the dental chair in all dental surgeries where pressure water supply is available. The dental flushing cussupply is available. The deficial flushing cuspidor incorporates: a bowl with pressure water flushing system a saliva ejector, a tumbler bowl with a shield, a small bowl to receive artificial dentures, an electric water heater, and a warm and cold water syringe. The electric water heaster can be designed for 200 V or 120 V power supply voltage. Power consumption: 200 W.





2263 Combined Motor and Oil Pump Anaesthetic Dental Chair, Model 97

By depressing the raising pedal the motor of the oil pump is switched on and the chair is being lifted. During power supply failures or motor defects, the chair can be lifted by treading the raising pedal. The chair is designed for operation on 220 V or 120 V. A. C. mains. Power consumption: 200 W.

Neosteril Electric Hot Air Sterilizer with Stand

The electric hot air sterilizer is suitable for sterilization of surgisuitable for sterilization of surgi-cal instruments, glass-ware, dres-sing material, etc. The recuired sterilizing temperature is automa-tically controlled. Sterilizing tem-perature range: 60°—200° C. Ope-rating voltage 220 V or 120 V, po-wer consumption: 1 000 W.



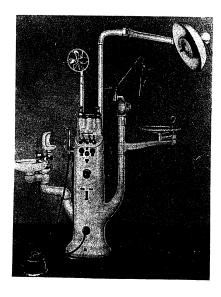
KOVO

229

KOYO

Mobile Operating Stool, Model 95

The mobile operating stool ensures comfortable working and minimizes the dentist's fatigue during long lasting operations.



Complet D Universal Dental Equipment with Air Compressor

The universal dental equipment comprises all the necessary instruments required by the dentist during routine wark. All the instruments are so arranged as to be always conveniently at hand for the dentist. Operating voltage $220\ V$ or $120\ V$.

The piston compressor provides compressed air for cleaning tooth cavities, crowns, etc., and for spraying of medicinal solutions. The compressor can also supply compressed air to the dental laboratory. Operating voltage 220 V or 120 V, power consumption: 125 W.

Information on the service is to be found in the CZECHOSLOVAK MOTOR REVIEW, Praha 1, Ul. 28. října 13.



2267 Motor Dental Chair, Model 94

The double-telescope motor dental chair is designed for operation on 220 V or 120 V power supply. Power consumption 200 W.

2268 Minident Mobile Stand Dental X-ray Unit

Dental X-ray Unit

The easily mobile dental X-ray unit is suitable for intra-oral and extra-oral dental radiography as well as for radiography of the temporo-mandibular joint and maxillary sinuses. The folding bracket, to which the tube head is mounted, can be adjusted to any position and height of a sitting patient. The radiation efficiency, of the X-ray tube is equivalent to 55 kV, 12 mA. Operating voltage 220 V cr 120 V, power consumption 800 W.

Minident Wall-Mounted Dental X-ray Unit 2269

The folding wall-bracket mounted type is used for the same radio-

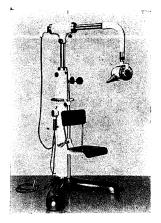


graphy and is of identical output as the Minident mobile stand Xray unit.

CZECHOSLOVAK HEAVY INDUSTRY scientific and technical monthly for engineering and heavy industry.

KOVO

231

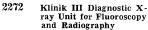


2270 Stomax Dental X-ray Unit

Suitable for radiography of teeth, jaws, skulls, bones and different parts of the human body. The stand is mobile. The radiation efficiency of the X-ray tube is equivalent to 65 kV, 15 mA. Operating voltage 220 V or 120 V. 40—50 c/s.

2271 Chirax Portable X-ray Unit

The Chirax is a small portable X-ray unit of high output, suitable for radiography of bones. Fluoroscopy can be carried out with the use of a fluoroscope. The X-ray unit is easily portable in two carrying cases. Operating voltage 220 V or 120 V. The radiation efficiency of the X-ray tube is equivalent to 65 kV, 15 mA.



In spite of light weight this X-ray In spite of light weight this X-ray unit is of high output. Fluoroscopy can be carried out of a standing, sitting or a recumbent patient on an auxiliary table. Maximum output of the X-ray tube during fluoroscopy is 3 mA at 80 kV. The X-ray unit can be operated on 220 V or 120 V A. C. mains.



2273 Durometa 125 Valve X-ray Unit Durometa Four

This X-ray unit is suitable for diagnosis by means of direct and indirect fluoroscopy and radiography. Maximum kilovoltage of the high-voltage generator is 125 kV during radiography and 100 kV during fluoroscopy.

232

2274 Megameta 125 Four-Valve Diagnostic X-ray Unit

Two or three diagnostic sets can be connected to this X-ray unit which is suitable for big medical institutions with a heavy working volume. It is designed for hard ray technique. Maximum output 800 mA at 125 kV.

Motoskop 122

a motor-driven tilting table suiis a motor-driven litting table suitable for perfect clinical X-ray examination by fluoroscopy and radiography. By means of an electromotor the table can be tilted from the vertical position up to the Trendelenburg position. The seat for the patient as well as the fluoroscopic screen are also as the fluoroscopic screen are also motor operated.

2275 X-ray Tubes and Valves

A set of X-ray tubes from the smallest type up to the rotating anode X-ray tube. A set of rectifier valves suitable for X-ray units of various outputs.

2276 Helios SLU 1 Portable Ultra-Violet Radiator

Suitable for medical surgeries as well as for homes. Operating voltage 220 V, power consumption: 250 W.

2277 Syringes

A set of syringes of different sizes. Suitable for injection therapy. Sterilizable at a temperature of up to 200° C.

Hypodermic Needles

Made of non-corrosive material, different sizes.

2279 Oxymeter

The oxymeter is designed to determine the arterial oxygen saturation. It is in principle a photoelectric colorimeter.





2280 Electrophonendoscope

It is used to pick up amplified pulmonary and arterial murmurs and foetal heart sounds. The taking of vided. of phonocardiograph is pro-

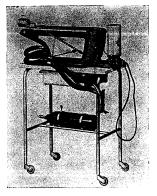
2281 Bronchoscope

This instrument is used for bronchoscopiec diagnosis and therapy in thoracic surgery.

2282 Thoracoscope

This instrument is used for thoracic surgery, especially for severing pleural adhesions by means of electrically heated cautery kni-

233



Electric Metabolimeter 2283 An apparatus for measuring the basal metabolism.

2284 Diaphanoscope

This instrument is employed for illumination of nasal and frontal cavities.

2285 Sterilizing Dressing Containers

These containers are designed for sterilization and storing of dressing materials, waddings, bandages, etc.

2286 Sterilizing

These drums are designed for sterilization and storing of dressing materials, waddings, bandages, etc.

Chirus Universal 2287 Operating Table

Designed and equipped to permit carrying out of all routine surgical as well as orthopaedic operations.

Plaster of Paris 2290 Saw

apparatus which swinging motion of a oscillatory disc saw permits easy and safe cutting and removing of plaster of Paris bandages. The soft part of the human tissue cannot be hurt by the saw.

234

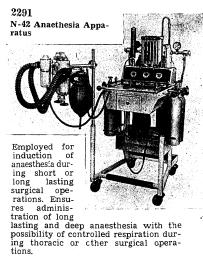


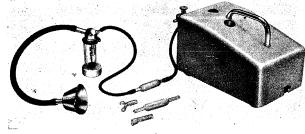
Single-Channel Battery 2288 Electrocardiograph

An apparatus for recording of the heart action potentials.

Mains-Operated Four-2289 Channel Electrocardiograph An apparatus fitted with four in-

dependent channels, employed for recording of the heart action po-





Portable Inhaler

Employed for treatment of respiration organs by finely atomized liquid medicines, such as penicillin, etc. Operating voltage 220 V or 120 V.

2293 Chirax Unit

A universal electro-medical apparatus which incorporates in a mobile cabinet: an electromotor permitting revolution speed control, and a flexible shaft to which a rotary or oscillatory instrument can be attached as required for the appropriate operation. Further accessories are the instrument for coagulation and electric tissue cutting, and the surgical drainage apparatus.

2294 Portable Electric Shock and Electric Coma Therapy Apparatus

Suitable for treatment of psychosis and psychoneurosis by means of electric current. Operating voltage 220 V or 120 V.



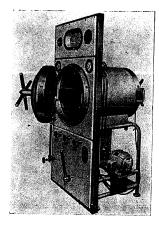


Mobile Stand Operating 2295 Theatre Shadowless Light

The luminous flux of this light can be directed to any required direction. Uniform, concentrated, shadowless illumination of the operating area is ensured.

2296

An electronic surgical apparatus designed for all kinds of surgical operations by means of a knife or a cutting loop. Suitable for haemostasis, ccagulation an even subaquatic incisions. Operating. voltage: $220\ V$ or $120\ V$.



2298 Pressure Instrument Sterilizer

Suitable for sterilization of surgical instruments, syringes, etc., under pressure. Steam, gas or electrically heated.

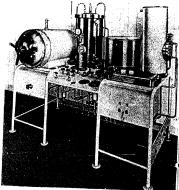
2299 Washer and Sterilizer

An apparatus for sterilization of surgical instruments, syringes, etc., combined with hot water washing of the used instruments

2300 Battery of Sterilizers

236

An installation for production of distilled and sterile water as well as for sterilization of surgical in-struments, bandages, dressings, etc.



KOVO

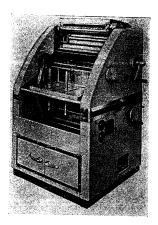
Horizontal Autoclave Intended for sterilization of bandages, dressings, laboratory glass-ware, etc.



2321 Zetaprinton 30

Offset printing machine for A-3 small size paper The machine is equipped with an electromotor for 110/220 V or 220/330 V, input 0.8 kW, r. p. m. 1450. The paper can be of the following sizes: from 105 X 148 mm up to 365 X 500 mm and of weight from 30 g/sq. m to 350 g/sq. m. Maximum output of the machine is 5000 prints per hour.

hour.
The advantages of this machine The advantages of this machine are: simplicity, easy operation, low price and reliability. It can be used for single colour printing such as letter heads, forms, technical drawings or for multicolour work such as calendars, fashion magazines, various publications, etc.



2322 ZETAPRINTON 20

Is an offset printing machine for paper size 210 \times 297 cm. The machine is equipped with an 110/120 V electromotor. The paper can be of following sizes and weights, from 105 \times 148 mm to 229 \times 356 mm, 40 g/sq. m to 150 g/sq. m. Maximum output of the machine is 3 500 reports for hour.

40 g/sq. in to 190 g/sq. in. Maximum output of the machine is 5000 pronts per hour. Simplicity, easy operation, low price and reliability are the advantages of this machine. It is especially suitable for offices for printing of various forms, circulars, etc. Simple multicoloured prints can also be printed on ZETAPRINTON 20.

2323 2324

Consul Typewriter

in standard and new execution. Both types are produced with a 13"/33 cm or 18"/46 cm carriage. With Pica 1 or Elite small type and with a standard columnar or and with a standard columnar or decimal tabulator. It can be supplied in 45 different keyboards. It is of relatively light build, weighs only 12 kg in contrast to 15 — 18 kg of other makes, because it is manufactured of first-class steels and the large parts are made of aluminium or spray castings. The operation of the typewriter is very simple, all levers are easily accessible from the outside without opening of the cover. The automatic margin setting and setting af paragraphs is especialy advantageous.

vantageous.



2327 Nisa M Calculating Machine

has a numerical range of 8 × 8 × 16. This machine with a complete keyboard is manufactured of quality material in a first-class execution and weighs only 4,10 kg. It is easy to operate and is extremely efficient. The machine can be supplied in grev wrinkle finish. A machine in beige glossy lacquer with modern square key tops is being prepared for delivery.

2328 Consul Electric Adding Machine

Easily movable. Only best material is used for its manufacture. The machine adds normally even in case when the total of negative items is larger than the positive negative balance. If in such case the subtotal or the total key is pressed the total is printed in red. The machine is ecuipped with a check register sight window which makes even multiplication possible. The speed of the machine is 120 operating strokes per minute. The machine is

iplication possible. The speed of the machine is 120 operating strokes per minute. The machine is delivered now in modern execution with the electromotor covered, with modern square shaped key tops in beige glosy lacquer.

2329 Nisa Electric Calculating Machine

is an electric calculating machine with a complete keyboard of 8 X 8 X 16 capacity without automatic division.



2325 Portable Typewriter

in standard and new execution is equipped and executed in the same way as a standard type-writer, the roller is only 24,5 cm long and the weight is 8,40 kg together with the case. The number of keys is 44 against 46 keys of the standard typewriter and could be therefore classifiel as a medium size typewriter. The advantages and outstanding features of this typewriter are the same as those of the standard one.



Nisa hand lever calculating machine has a capacity of $10\times 8\times 16$ with decimal places carried over in the proof register.

Machine

Nisa P Calculating

2331 Grafopress

2330

an automatic platen printing machine suitable for simple or complicated multicoloured jobs, further for embossed printing and printing of folders. Maximum output 5000 prints per hour.

2332 Zetacont B

is an offset proof press with an automatic ink spreader for maximum paper size of 80 × 180 cm. The most up-to-date machine of this type for pulling of various proofs and printing of precision maps. Can also be used for printing on glass, tin sheets, wood or other material.

2333 Zetalis

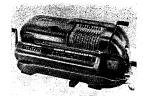
High speed letterpress printing machine of high output suitable for all kinds of book printing, including multicoloured prints Maximum paper size 56 X 76 cm, 3 000 / 3 600 prints per hour.

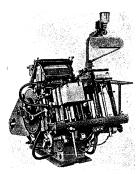
2341 Maxima H 106

High speed paper cutting machine of great output with a 106 cm with of cut. This machine is equipped with hydraulic cutting and clamping device which removes all the deficiencies of the present mechanical systems The pressure of the knife and of the clamping mechanism can be adjusted.

2342 Maxima N 78

High speed paper cutting machine of a 78 cm cutting width, is of simple design with hand clamping and mechanical cutting. Excellent for small printing shops and paper mills.









KOVO





2351 9 mm Smallbore Single Shot Rifle

with a smooth barrel for shooting small birds with shot. It is equipped with a Mauser breech and eccentric firing pin. Flobert cartridges with rim fire are used.

2352 Brno 2 Smallbore Rifle

is a new improved type of Brno 1 smallbore rifle. The barrel is longer, the cartridge chamber and trigger mechanism newly designed. It is used for shooting vermin with 22 long rifle cartridges. The magazine holds five rounds. The stock is of walnut. The design of Mauser breech is very accurate.

2353 Brno 3 Smallbore Rifle

is designed for contest shooting and the weight has been adjusted to 4,5 kg. The fore-end of stock is re-inforced and the barrel is especially strong. The sights are adjusted for contest shooting, provided with peep sight and a set of sights to be chosen according to marksman's judgement.

2354 Double Barreled Shotgun Bore 12

with an English stock is provided with an automatic safety catch, the barrels are made of one forging, the barrel lugs are of Poldi steel. Lock plates and trigger guard are engraved and can be gold decorated if desired. It is used for shooting small game with shot filled cartridges.

2355 ZG 8 X 57 S Rifle with »LOVEC« Telescope

is designed for shooting big game. This rifle has many new improvements, newly designed Mauser breech, new safety catch which arrests simultaneously the motion of bolt lever. It is provided with slots for attaching of the OP 4X or LESAR 3X telescopes.

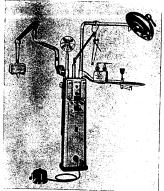
2356 Hornet Rifle

HORNET rifle 5.6×36 R is a weapon of great efficiency with a Mauser breech, especially suitable for shooting of medium sized vermin. Cartridges with central firing are used. Shoots very accurately even at great distances.

CZECHOSLOVAK HEAVY INDUSTRY scientific and technical monthly for engineering and heavy industry.



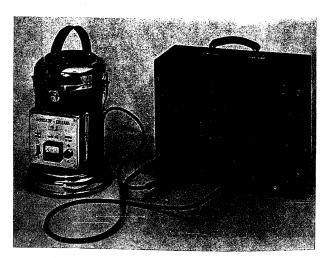
240



Czechoslovak electronic microscope and MINIDENT, the smollest X-ray unit in the world.

KOVO

PRAHA - CZECHOSLOVAKIA



The more hundreds of an expension of the Oxeonomers region of an income and aprice heigh from the first belonce which is about a week a line made by principal processor we have all a conference of these to a weak of these to a weak regions of the conference of the second of the conference of the con



Motor-cyclests who are exacting with regard to the quality and output of their machines ride on JAWA- $\tilde{c}Z$.



2357 Automatic Shotgun R 16

is smooth, without a rib, designed for 3 cartridges. Its great advantage is the rapid firing cadence, easy loading and dismantling of the shotgun for transport.

2358 Air Rifle Model 47

is accurate for short distances. Its advantage is easy loading of 15 to 20 shots and easy cocking of the spring. It uses balls Model 47/4,45.

2359 ZV 3 Air Rifle

2360 ZV 4 Air Rifle

is similar to type ZV 3 only slightly heavier.

2361 Duo 6,35 Pistol

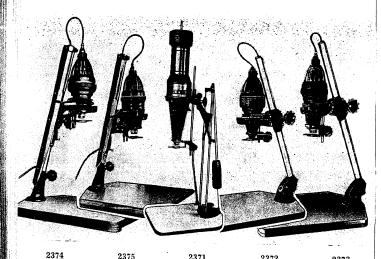
is an automatic pistol with a 6 groove rifting. The safety catch is on the right hand side of the grip. The advantage of the pistol is its small size, on account of which it can be easily carried in the pocket. The magazine holds six rounds.

2362 Air Pistol

for shooting in rooms.

2363 Cartridges

The JAWA-ĈZ 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 1, Ul. 28. října 13.



2371

2372

2373

2371 Herkules 18 X 24

A professional-type precision enlarger for research institutes and laboratories for 18×24 mm maximum negative size with the following optical outfit: a BELAR f 4.5, F=300 mm lens, a condenser 320 mm in diameter.

Opemus 4 X 4

An amateur-type precision enlarger for 4 \times 4 cm maximum negative size; a BELAR f 4.5, F = 55 mm lens, a plano-convex condenser 68 mm m diameter. Three easels are supplied as accessories. Advantage: oblique stand rod.

Opemus 6 X 6

An amateur-type precision enlarger for 6×6 cm maximum negative size; a BELAR f 4.5, F = 75 mm lens, a double-convex condenser 98 mm in diameter. Accessories: a metal easel with glasses and a set of

2374 Opematus 4 X 4

A precision enlarger with automatic focusing adjustment for 4×4 cm maximum negative size; a BELAR f 4,5. F = 55 mm lens, a planoconvex condenser 68 mm in diameter. Accessories: three easels.

Opematus 6 x 6

A precision enlarger with automatic focusing adjustment for 6×6 cm maximum negative size; a BELAR f 4.5, F = 75 mm, a double-convex condenser 98 mm in diameter. Accessories: a metal easel with glasses

242

2376 Magnifax 6,5 × 9

A precision enlarger both for amateurs and professionals, for 6.5×9 cm maximum negative size. A BELAR f 4.5 F = 105 mm lens, a double-convex condenser 120 mm in diameter. Accessories: a set of masks.

Magnitarus 10 × 15

A precision enlarger designed for use in scientific institutes and laboratories, for enlarging from a maximum size of negatives of 10 × 15 cm and less. Optical outfit: a BELAR f 4.5, F = 180 mm lens, a dcuble-convex condenser 200 mm in diameter. Supplied with a set of wooden easels and a set of masks for work with smaller negatives.

Magnolar 13 X 18

A precision enlarger designed for use in scientific institutes and laboratories, for enlarging from a maximum size of negatives of 13=18 cm and less. Optical outfit: a BELAR f 4.5, F=210 mm, a double-convex condenser 240 mm in diameter. Supplied with a set of wooden easels and a set of masks for work with smaller negatives.

2379 Masking easel equipment 18 × 24

Accessories to the precision enlargers, designed for masking the borders of the positive picture and for holding the photographic paper in position. Suitable up to a maximum size of 18×24 cm.

2380 Masking easel equipment 30 × 40

Accessories to the precision enlargers, designed for masking the borders of the positive picture and for holding the photographic paper in position. Suitable up to a maximum size of 30 \times 40 cm.

2381 Focusing adjustment

Accessories to precision enlargers. Used for easier focusing of the enlarged image with enlargers which are not equipped with automatic focusing adjustment.

Correcting colour filters 75 \times 75 mm - 135 \times 135 mm

Designed as correcting filters for colour photography, a set consisting of 33 filters. Used on enlarging with the aid of the MEOKOLOR-Adapter.

Equalizing colour filters 75 X 75 mm - 135 X 135 mm

These filters are supplied as accessories to the correcting colour filters. They are used for accelerating the colour correction during enlarging. A set comprises 3 filters.

Macro-adapter

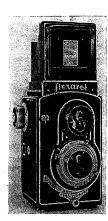
This is supplied as accessories to the OPEMUS 6 \times 6 II precision enlarger and serves for making macro-pictures by means of the reproducing method.

2385 Reproducing arm

Accessories to precision enlargers; with the aid of a photographic camera it substitutes a reproducing apparatus, i. e. it can be used for making reproductions from original pictures.

2386 Axomat 24 X 36

A new type of precision enlarger for black-and-white photography for use with 24×36 mm negatives (Leica size) or smaller sizes (16 mm film). Optical outfit: a BELAR f 4,5, F = 50 mm lens with snap-in diaphragm; an easel with slit-type focusing adjustment and negative counter window; oblique stand rod with scale; efficient cooling.



2387 Flexaret IV

A twin-lens reflex camera for use with 6,5 × 9 cm roll film (12 pictures 6 × 6 cm in size). Taking lens: a BELAR f 3,5, F = 80 mm, viewing lens f 3,0, F = 80 mm. Depth of focus scale engraved on the focusing lever, release on camera body, semi-automatic viewfinder, interlocking mechanism against double exposures.

2388 Flexaret IV a

A twin-lens reflex camera for use with 6,5 × 9 cm roll film (12 pictures 6 × 6 cm in size) and for 35-mm cine film (with adapter). The rewind knob fitted with indicators of the kind of film used. Otherwise the outfit similar to that of the preceding Flexaret IV camera.

2389 Leather case for Flexaret cameras

An eveready leather case protecting the camera against mechanical damage and effects of weather, permitting, however, the camera to be put in action instantaneously.

2390 Auxiliary lenses

Adapter lenses to be slipped on the objectives for shots made from a distance closer than $1\ \mathrm{meter}$.

Parallax wedges

For the same purpose, with parallax correction, for use on making close-distance shots.

Various filters

For various corrections of films, colours, etc.

2391 Set of Meokolors

These are adapters to precision enlargers. Suitable for colour photography with the aid of correcting filters.

2392 Mikroma II.

A small-size camera for use with 16mm cine film. Shutter with conventional exposure times up to 1/500 sec. release mounted on the camera body, built-in flashinght equipment. Optical cutfit: a MIRAR f $3.5, \, F=20 \, \text{mm}$ lens.

2393 Magnola

A camera for professional portrait photography, for scientific and research work; for enlarging from negatives up to a size of 13×18 cm. Complete equipment.

2394 Tripod

A telescopis-type flat-head tripod consisting of six parts (retractable legs); tripod head fitted with two conventional threads.

2395 Pioneer camera

A simple, inexpensive bakelite camera designed for the beginners. For use with 6.5 \times 9 cm roll film; picture size 6 \times 6 cm, or 4.5 \times 6 cm (on using masks). Fix-focus lens.

2396 Aladdin-lamp

A practicable dark room illuminator. Three kinds of colour filters actuated by menas of a knob located at the side of the instrument. An indispensable expedient for enlarging laboratories

2397 OKA Printer 18 × 24

A contact printer for negatives up to 18 X 24 cm in size, with continuous light intensity control.

2398 Set of proto-dishes

Dishes for developing, fixing and washing of films and positives.

2399 Driers

Drying cabinets and drums for drying and polishing of photographs; both for professionals and amateurs.

2400 Amateur laboratory equipment

Complete instrumentary equipment for amateur enlarging laboratories.

The JAWA-CZ 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.

KOVO

2401 Projection room equipment

Complete instrumentary outfit of a projection room for 35-mm film, including soud equipment and screen.

2402 Projection room equipment

Complete instrumentary outfit of a projection room for 35-mm film, including sound equipment and screen.

2403 Meopton I.

A professional-type stationary sound-film projector for 16-mm film. Equipped with adapter for slide projection. Optical outfit: a POLAR f 1.3 (or f 1.5), F=40 (or 60) mm, respectively. Projection head encased in a dustproof housing. 1000 W projection bulb.

Meopton II.

A professional-type stationary high-performance soundfilm projector for small public cinemas and lecture halls, for 16-mm film. The same projection lens as with Meopton I. Light source: a 40 a 60 amp. high-intensity arc lamp; full-encased projection head.

Meopton III.

A new professional-type stationary sound-film projector for 35-mm film; full-encased, fitted with various mechanical devices and safety equipments. A 40 to 60 amp. high-intensity arc lamp. Suitable for medium size cinema halls (for about 400 spectators). Supplied with a POLAR f 1.9 (or f 2.8), F= 80 mm (or 160 mm) lens, respectively.

2404 Optilux

A new 8-mm cine-projector for amateurs, institutes and schools; fitted with a POLAR f 1,3, F = 25 mm lens and a 500 W projection bulb. Supplied with a transformer for conventional mains voltages from 110 V up to 240 V. Reversible movement of film.

2405 OP 16-mm Sound-film Projector

A 16mm sould-film projector with a 500 W projection bulb. Variable transformer for 110 to 240 V voltages; projection lens: a POLAR f 1.5, F = 50 mm; 8w amplifier; complete equipment portable in two cases.

2406 Meo »8« Projector

A simple and light-type projector designed for home projection, for use with reels of 120 m maximum film length; fitted with a POLAR f 1.5, F = 18 mm lens and a 200 W projection bulb. Portable case design; suitable for all conventional mains voltages from 110 up to 240 V.

Should you be interested in the opening of trade relations with Czecho-slovak Glass- or Ceramic works you will acquire the best information on the trade possibilities by regularly following the richly illustrated monthly CZECHOSLOVAK GLASS REVIEW.

2407 Admira 8 E

An amateur-type motion picture camera for use with 2 × 8 mm film, fitted with a MIRAR f 2.8, F = 12.5 mm lens, open frame finder with parallax correction, frequency control from 10 up to 64 frames/sec. Acoustic scene control; spring drive; single-shots adjustment.

2408 Admira 8 II

A cine camera of the same design as Adm'ra 8 E, fitted, however, with two objectives mounted on a revolving carrier, i. e. a MIRAR f 2.8, F=125 mm standard lens and a TELE-MIRAR f 3.5, F=35 mm tele-photo lens.



2409 Filters to the Admira cine camera, 18 and 22 mm in diameter

Suitable for various kinds of filming, for correcting the colours and the density of film.

2411 Revolver-type holders

Supplied as accessories to Admira cine cameras: enable the camera to be held firmly and comfortably while filming.

2412 Interchangeable evenieces

Accessories to the Admira cine camera for short- or long-sighted operators (accommodation up to \pm 3 diopters by inserting of suitable eyepieces).

2413 Locking release

Accessories to the Admira cine camera; enable the operator to be filmed by himself (both single-frame and continuous shots).

2414 Trimat Splicer

A semi-automatic splicing machine for 3 film sizes, i. e. 8-mm, 9.5-mm, and 16-mm. Made of non-corrosive material, thus securing minimum wear and long life of the instrument.

2415 Rewinder 8-mm and 16-mm

These are used for correct rewinding of 8-mm or 16-mm film band.

KOVO

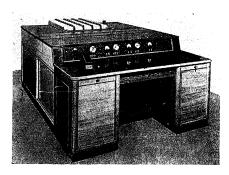
247

246

2416 Photo-elasticimeter FMB Mcor But

An apparatus designed for determining the amount and the direction of strain in constructions and their parts. Possibility of experimental checking of complicated computation. The apparatus utilizes the polarized light which is transmitted through a precise experimental model.

Up-to-date design, perfect cooling of the light source which is easily interchangeable by slightly turning the control knob; large field of view. Indispensable for laboratories, research and projecting institutes and enterprises.



2417 Electrophoresis EMB — 52

This apparatus is used for blood serum and plasma analysis, for examining the effect of new medicaments and therapeutical methods, for the research of animal and vegetable albumens, for analysis of materials which are significant from the technical point of view, for research of wool, silk, latex, etc. Attractive design, working table shape; no dark room required; enables three testing procedures to be performed simultaneously and independently of each other; cooling, automatic compensators, electronic stabilizers.

2418 Trichinoscope

An instrument for determining the trichinae in flesh. Suitable for making whole series of subsequent tests.

2419 Optirex

248

A reproducing instrument for making reproductions from model pictures. Supplied with a variable transformer for cenventional mains voltages and a set of easels.

2420 Panoramatic head

To be attached to a tripod of a photo or a motion picture camera; two conventional threads. Used for making panoramatic shots.

2421 REF

A reproducing instrument for making reproductions from model pictures corresponding to the A6 to A3 size on 35-mm film. Magazine capacity 60 m.

2422 Reproscope

A new type of a micro-film reading instrument.

2424 Diaprojector according to Doctor Hrdina

Design not yet known. Private manufacture.

2423 Diaprojector OP 5 × 5

A slide projector for 5×5 cm slides in frames or 35-mm film band pictures. Outfit: a MIRAR f 2,8, F=100 mm lens, a 35 W/12 V projection bulb.

2425 BR-Cine Camera

A professional-type cine camera for use with 35-mm film; four objectives mounted on a revolving head; complete accessories. Magazines for 120 and 300 m film, accumulator battery. 12 V/D.C. drive. Three tripods of different kinds; complete equipment is supplied in transport cases.

2426 8-mm and 16-mm Editing Table

A set for examining, rewinding and splicing of 8-mm and 16-mm film; fitted with a film length counter and a time control; case-type design.

2427 Projection screens

Projection screens as accessories to projectors; available in various sizes and different types of material.

2428 Projector ree

Accessories to cine projectors. Available in various capacities for 8, 16 and/or 35-mm film.

2429 A Set of Spectacles

MICROSCOPES

The Meopta Microscopes are used for observation of microscopical objects both in schools (simple types) and for scientific research work in medicine, biology, natural sciences, etc. Due to their optical outfit and perfect craftmanship they meet the most critical demands. The Meopta Microscopes are used with great success in industry, technical laboratories, etc. The Meopta Microscopes can be divided into three principal groups, each group being characterized by the design of the stand.

Detailed reports with a large number of pictures are to be found in the CZECHOSLOVAK MOTOR REVIEW.

KOVO

249

KOYO

Microscopes of the C-type group C 36 Bi: 2430

Most advanced type of the C-type group, and, simultaneously, the most advanced type of the Meopta Microscopes. Built-in illuminator in the stand foot. Outfit the same as that of B 36 Bi, total magnification 43 × up to 1800 ×.

All the three types mentioned above are designed for scientific and research work.



2431 Stereoscopic Microscope G 11 P

Designed for stereoscopic observation of objects; mostly used in workshops for observation e. g. of surface finish of fine mechanical parts, etc. Optical outfit: objectives: $1.8 \times, 3.5 \times, 10 \times$. Eyepieces: $6 \times, P = 10 \times$.

G 20 P Stereoscopic Microscope

A new type of a stereoscopic microscope swivel-mounted on an upright column stand. Optical outfit identical with that of the G 11 P-type. Outstanding feature: possibility of observation of large-sized objects.



2432 Polarizing Microscope

Designed for use in petrography. Enables observation of the structure of various minerals by means of the polarized light. Suitable also for use in medicine.



2433 Microscopes of the A-type group A 36 Bi:

Most advanced type of the A-type group. Fitted with largetype ABBÉ substage condenser unit, large square mechanical stage, binocular body with a coefficient of 1.5 \times . Optical cutfit: achrom. objectives 6 X, 10 \times , 20 \times , 45 X, 100 \times oil immersion; correcting objective $60\ X$ available on special request. Eyepieces: H 6 \times , P 10 \times , 15 \times . Condenser N. A. 1.4. Total magnification: 54 \times up to 2250 \times .

2434 Microscopes of the B-type group B 36 Bi:

Most advanced type of the B-type group. Substage condenser unit, square mechanical stage and optical outfit conform to the preceding type. The binocular body has a coefficient of 1.2 \times . Total magnification 43 \times up to 1800 \times .

2435 Traveling Microscope

As regards to optical outfit, this microscope corresponds with the most advanced types of the Meopta Microscopes. Monocular body tube, medium-type substage condenser unit; at-achable mechanical stage is fitted to the microscope stage. The instrument is deposited in a dustproof metal hood. Suitable for use in laboratories and hospitals.

2436 Drawing instrument-Camera Lucida

This instrument serves for depicting observed microscopical objects by means of drawing. The forming of the image is based on the principle of a reflex prism which is fitted in a mount on a swing-of holder. The instrument is set up on the eyepiece o the microscope.

2437 Vertical Illuminator

A suitable supplement to the microscope; used for examination of opaque objects observed in incident light.

2438 Preparation magnifier (»dissecting microscope«)

Application similar to that of the stereoscopic microscope. For stereoscopic examination of objects.

2439 Microscope Lamp »T« and »Šikl«-type

These are used for illumination of the observed microscopical

2440 Attachable mechanical stage

This device enables a cross movement of the specimen under observation. It is attached to the microscope etape instead of the spring clips.

2441 Objectives and eyepieces

These form the principle optical outfit of the Meopta Microscopes.

2442 Paraboloid condenser

This condenser serves for observing the specimens in a darkfield illumination.

2443 Bürker's Counting Chamber

Used in medicine on examining the characteristics of blood.



251

2444 Large-type Sliding Microtome

Used for preparing miscroscopical specimens; a set of knives is supplied as accessories.



2445 Clinometer

Server for determining the slope of ground, e. g. in building of roads, regulation of rivers, etc.

2446 »KODYM« Compass

This compass is used for geological surface and underground investigation, for measuring the declivity of mineral layers, etc. Suitable as an aid on drawing of simple situation plans.

2447 Pal Compass

Pal wrist compass is used for setting of the four cardinal points with a map (handy for tourists).

2448 Orienting Compass

Serve for orienting in the terrain; suitable also for military purposes.

2449 TH 30 × Theodolite

A universal angle measuring instrument with a detachable tripod. It is intended for engineering tacheometry and lower order triagulation polygonal measuring, setting out curves and surveying work on building sites. It is delivered with a wooden sliding-leg tripold.

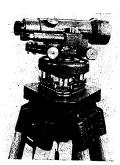
2450 THO 30 X Theodolite

A universal theodolite of the same design as the Th 30 X Theodolite, supplemented, however, with electric illumination. Suitable preferably for surveying work in underground areas. Accessories: three telescopic-type tripods and two targets fitted with electric illumination.

2451 NK 30 × Surveyor's Level

252

Designed for accurate levelling work of the 2nd and 3rd order of precision (2nd and 3rd Class bench marks), for highprecision constructional work (bridges, tunnels, etc.). melioration projects, etc. The angle values of the circle are read by means of an auxiliary reading microscope.



KOVO

2452 NNK 25 X Surveyor's Level

Application the same as with the preceding instrument, the telescope having, however, a magnification of 25 X only. The instrument is deposited in a wooden cabinet. Both of the two surveyor's levels are supplied with telescopic-type tripods.



2453 T/c Angle-measuring instrument

A universal-type angle-measuring instrument, fitted with a glass circle. Enables both the vertical and the horizontal angles to be read-off simultaneously; eliminates errors on reading. Fitted with illumination, so that it can be used for night work and in underground areas. Telescope magnification 28 X.

2454 Pilot Theodolite

Designed for determining the direction and velocity of wind with the aid of piloting rubber balloons. Used particularly on aerodromes.

2455 Comparing Microscope

Designed for comparing the roughness of surfaces; suitable particularly on finishing of metal parts. Enables the machined parts to be compared with master samples; in the textile industry for comparing of fabrics, comparing of colour shades, for testing the mesh of screens, etc. Magnification: 12 X up to 45 X

Outstanding feature: oblique illumination which has not yet been applied by any other manufacturer for products of the same kind.

2456 Mineralogical Microscope

A microscope designed preferably for use in mineralcgy, petrography and geological research work.

2457 Pocket Surveyor's Level

Designed for levelling work of a lower order of accuracy. Used for surveying of building lots, and in all instances where a perfect accuracy is not essential. Due to ist small dimensions it is easibly portable; supplied with a levelling tripod and a folding rod. Suitable also for measuring of distances.

KOYO

2458 Colposcope

A special type of miscroscope for medical purposes. Used particularly in ophtalmology and gynecology.

2459 Geological Compass

A compass designed preferably for work in underground areas, particularly in mines, e. g. for drawing maps of corridors in mines, etc.

2460 Universal Abbé-Refractometer

An optical instrument designed for chemical analysis; consists of a telescope and two compensating prisms. Enables long-lasting chemical processes to be shortened.

2461 Portable Refractometer — Type I, II, and III

Designed for determining the percentage of sugar content in solutions. Mostly used in sugar industry (determing of sugar content of sugar-beet). When equipped with necessary supplements, it is suitable also for use in fruit-culture.

2462 Polarimeter

Designed for determining the amount of concentration of solutions. Used in sugar industry, medicine, chemistry, foodstuff and cosmetic industry. As a source of light a monochromatic (yellow), the so-called natrium light, is used.

2463 Simplex Polarimeter

An instrument used particularly in medicine for examining various solutions.

2464 Natrium Lamp

A lamp for yellow light; supplied as accessory to the polarimeter.

2465 White Light Lamp

This is a conventional electric bulb supplied as accessory to the saccharometer.

2466 Wedge Type Polarimeter

else »Sacharimeter« use in sugar factories for determining the concentration of sugar solutions.

2467 Universal Prism Square

Designed for setting-off perpendiculars. Used particularly on building lots. Substitutes the function of 90° and 180° pentagonal prisms.

Detailed reports with a large number of pictures are to be found in the CZECHOSLOVAK MOTOR REVIEW.

2468 Binoculars

Used as observing, touristic, hunting, telescopes; suitable also for military purposes, for observation in naval service. Supplied in leather cases.

2469 Dolonit-Spectacles Resistance Testing Machine

An apparatus for continuous bending of the Dolonit-Spectacles hinges. Serves for exhibiting the long life properties of these spectacles.



2501 Optical dividing head

is used for manufacturing of gears by dividing method and to check the accuracy of the division.

2502 Profile Projector

is used for checking small parts of various shapes by projecting of the profile of the tested piece on screen at a certain enlargement. Max. enlargement $100~\rm X_{\odot}$

2503 Optical Level

is used for checking of accuracy of surfaces under certain angle. Reading of the values is done by means of a small microscope.

2504 Optical Protractor

is used for angle measuring in the same way as a mechanical angle meter, but it is not as heavy and the reading by means of magnifying lens is more accurate.

Information on the service is to be found in the CZECHOSLOVAK MOTOR REVIEW, Praha I, Ul. 28. října 13.

KOVO

255

2505 Lathe Microscope

is used for work on lathes

2506Magnifying Glasses for Checking of Drills

are manufactured in three sizes according to the diameter of the drill and are used for checking the angle of the cutting edge.

2508 Micrometer

are manufactured in many types and ranges, also for special purposes such as measuring of sheets, threads, etc.



2509 Slip Gauges

are delivered in three degrees of accuracy and are used as basic elements for control measure-



2505 2507 Sliding Gauges

2506

measuring instruments used most extensively in the engineering industry are produced in various length, for measuring ranges of 140 to 2000 mm with reading accuracy of 1/10, 1/20 and 1/50 mm.

2510 Gauges for Current checking on grinding Machines and Electric Contact Indicators

are used on cylindrical grinding work with the possibility of diconnecting the machine.

2511 Twin Point Gauge

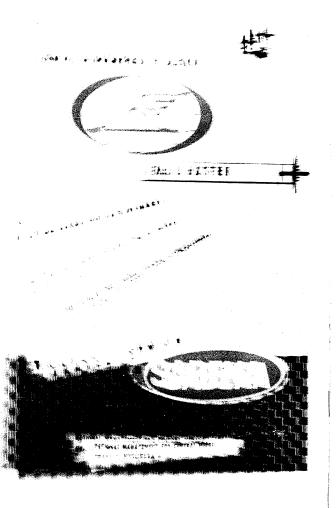
2512 Surface Roughness Measuring Instrument is used for checking the quality of surfaces.



PRAHA I, NÁRODNÍ 43 - TEL. 23-48-44 23-48-45

23-48-46

Sanitized Copy Approved for Release 2010/08/18: CIA-RDP81-01043R000500080001-3



CZECHOSLOVAK HEAVY INDUSTRY scientific and technical monthly for engineering and heavy industry.

2513 Chucks for Lathes

are manufactured in several sizes and are used for external or internal clamping of the work piece.

2514 New Types of Mechanical Tools

are manufactured in several types such as grinders drills, hammers, etc. to be used in such places where it is necessary to replace electric tools, even though their running is cheaper, but their output is smaller and the work with them is dangerous.

2515 Spirit Levels (New Types)

in contrast with old types they are lighter and of modern design.

2516 Wire Gauges

for measuring threads.

2517 M 0,3 — M 1 Thread Cutting Tools

are manufactured for precision mechanics for cutting threads of screws and nuts on automatic machines or by hand.

2518 Thread Dies (New Types)

used especially by plumbers for hand cutting of male threads; are manufactured in several types.

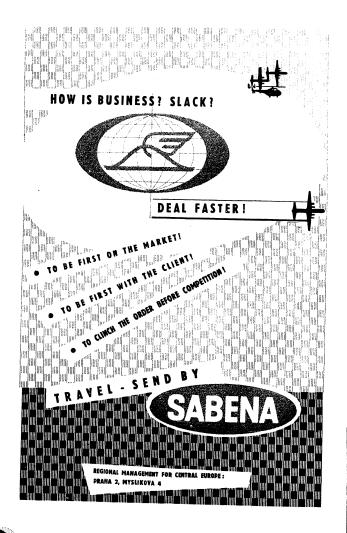
2519 Fine twist Drills With a Stepped Shank

are used in precision mechanics for drilling cylindrical holes of diameter from 0.1 to 0.5 mm.

2520 Chucks for Drilling Machines

Technical and scientific articles following the development of technology in motorism are regularly to be found in the illustrated periodical CZECHOSLOVAK MOTOR REVIEW, popular all over the world. It is published in English, French, Spanish and German.

KOVO



CZECHOSLOVAK HEAVY INDUSTRY scientific and technical monthly for engineering and heavy industry.

2513 Chucks for Lathes

are manufactured in several sizes and are used for external or internal clamping of the work piece. $\,$

2514 New Types of Mechanical Tools

are manufactured in several types such as grinders drills, harmors, etc. to be used in such places where it is necessary to replace electric tools, even though their running is cheaper, but their output is smaller and the work with them is dangerous.

2515 Spirit Levels (New Types)

in contrast with old types they are lighter and of modern design.

2516 Wire Gauges

for measuring threads.

2517 M 0,3 - M 1 Thread Cutting Tools

are manufactured for precision mechanics for cutting threads of screws and nuts on automatic machines or by hand.

2518 Thread Dies (New Types)

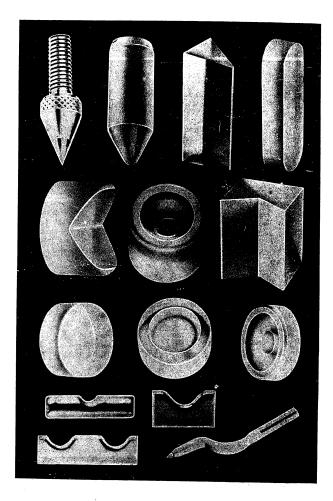
2519 Fine twist Drills With a Stepped Shank

are used in precision mechanics for drilling cylindrical holes of diameter from 0.1 to 0.5 mm. $\,$

2520 Chucks for Drilling Machines

Technical and scientific articles following the development of technology in motorism are regularly to be found in the illustrated periodical CZECHOSLOVAK MOTOR REVIEW, popular all over the world. It is published in English, French, Spanish and German.

KOVO



2521 Technical Stones

manufactured from natural agate and synthetic sapphire.

Complimentary copies will be sent to persons interested in this line by the Czechoslovak Motor Review, Praha I, Ul. 28. října 13.

2522 Twisted Drilis

are drills manufactured by twisting the material.

2523 Sintered Carbide Knives With Mechanical Clamping Bits

2524 Knives With Corundum Plates

word investment continuum intes

2525 Progressive Hobbing Milling Machine

for manufacturing gear wheels.

2526 Knipe Heads for Globoid Worms

2527 Pneumatic Muscle

2528 Cast Milling Cutters

Milling cutters produced by casting.

2529 Saws With Cast Segments

2530 Chucks for Automatic Clamping

are used for clamping material on various machines such as lathes, turret lathes, etc. 2531 Rockwell Rapid RR IV Hardness Tester

Portable hardness tester for measuring hardness of metals according to Rockwell, Brinell or Vickers. The indentation is effected by means of a diamond pyramid or a steel ball through exchangeable weights and an oil brake.

Apply for complimentary copies to the CZECHOSLOVAK MOTOR REVIEW, Praha 1, Ul. 28. října 13.

KOYO

259

58

2532 Bricknell Hardness Tester

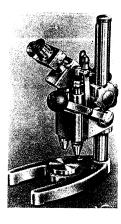
2533 Meopta 56801 Hardness Tester

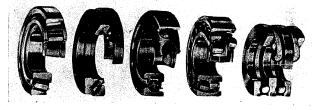
Portable instrument for measuring hardness according to Vickers or Brinell. The indentation is effected by means of a diamond pyramid or a steel ball through constant pressure of a spring compressed by a hand lever.

2534 Rockwell Portable Hydraulic Hardness Tester Bearings

2535 Bearings

are manufactured in following types: single row ball bearings, double row ball bearings, one way thrust ball bearings. single row roller bearings, double row roller bearings, taper roller bearings.





2551 ES 225 Loom

is designed for weaving of cotton and shearing yarn fabrics.

Working width	215 cm
Reed width	225 cm
R. p. m.	110/120
Weight gross	3 250 kg
net	2 350 kg

ES 175

KOYO

2552 F 44/2 Loom

is used for weaving of cotton and shearing yarn fabrics.

Working width	113 cm
Reed width	120 cm
Electric motor	0,8 kW
R. p. m.	180/200
Weight gross	1 650 kg
net	1 200 kg

2553 Vitek Loom

Suitable for weaving of cotton, silk and rayon fabrics.

136 cm
143 cm
120/130
0,36 kW
11 kw
2 110 kg
1552 kg

2554 P 45 Narrow Jet Loom

is designed especially for weaving bandaging material in plain weave. This is a shuttleless loom and the weft picking is effected by means of air jet from crosswound bobbin.

Working width	30 —45 cr
R. p. m.	800
Input	0,7 kW
Weight gross	500 kg
net	310 kg

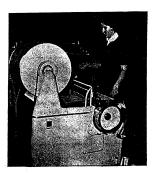


2555 Crosswinding Machine

is designed for winding wool, cotton or cellulose on crosswound bobbins. The winding speed is 680 m per min.







10

anitized Copy Approved for Release 2010/08/18 : CIA-RDP81-01043R000500080001-3

2532 Bricknell Hardness Tester

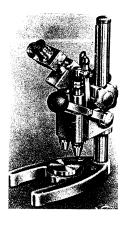
2533 Meopta 56801 Hardness Tester

Portable instrument for measuring hardness according to Vickers or Brinell. The indentation is effected by means of a diamond pyramid or a steel ball through constant pressure of a spring compressed by a hand lever.

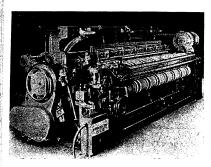
2534 Rockwell Portable Hydraulic Hardness Tester Bearings

2535 Bearings

are manufactured in following types: single row ball bearings, double row ball bearings, one way thrust ball bearings. single row roller bearings, double row roller bearings, taper roller bearings.







2551 ES 225 Loom

is designed for weaving of cotton and shearing yarn fabrics.

	J		
Working width		215	cm
Reed width		225	cm
R. p. m.		110/	120
Weight gross		250	
net	2	350	kg

ES 175

KOVO

2552 F 44/2 Loom

is used for weaving of cotton and shearing yarn fabrics.

orrection have recorred	•
Working width	113 cm
Reed width	120 cm
Electric motor	0,8 kW
R. p. m.	180/200
Weight gross	1650 kg
net	1 200 kg

2553 Vitek Loom

Suitable for weaving of cotton, silk and rayon fabrics.

Working width	136 cm
Reed width	143 cm
R. p. m.	120/130
Electric motor	0,36 kW
Electric motor	11 kw
Weight gross	2 110 kg
net	1 552 kg

2554 P 45 Narrow Jet Loom

is designed especially for weaving bandaging material in plain weave. This is a shuttleless loom and the weft picking is effected by means of air jet from crosswound bobbin.

Working width	30—45 cm
R. p. m.	800
Input	0,7 kW
Weight gross	500 kg
net	310 kg

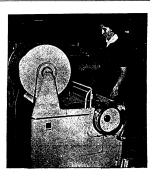


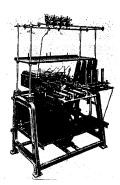
2555 Crosswinding Machine

is designed for winding wool, cotton or cellulose on crosswound bobbins. The winding speed is 680 m per min.









2556 D F 2 Automatic Weft Winding Machine, Type 2051

is a machine for winding cotton and silk on weft pirns. Maximum r. p. m. 6000

4 Roller Printing Machine, Type 4412,04

Is suitable for printing fabrics up to a maximum width of 1 100 mm, maximum printing speed 70/min., minimum printing speed 10/min.

Circumference of the printing rollers

max. 550 mm min. 350 mm

2558 3 Roller Foulard for Starching and Dyeing Type 4655

The length of rollers is 2 000 mm, working speed 6—36 m/min., maximum pressure between the rollers 4 000 kg. The gross weight of the machine is 2 260 kg, the net weight 1 820 kg. weight 1820 kg.

Centrifuge 4510-14

The diameter of the centrifugal drum is 850 mm for 5–6 fillings per hour, weight of a single filling of wet goods 80 kg, drum r. p. m. 1000. Gross weight of the machine 1160 kg net weight 960 kg.

2571 **Duplex Eyeletting Machine**

The machine is used for punching eyelet holes and for clenching eyelets. Always two opposite lying eyelets are clenched into the right and left upper edge in one operation. Can also be used for eyeletting other leather, cloth or rubber parts. Output of the machine 2 000 upper pairs in 8 working hours.

2572 Tackless Toe-Lasting Machine for McKay sewn Footwear No. 02002/P2

The machine is used for pulling over the forepart of the upper over the last up to the shank, and for attaching the upper to the insole by cementing, instead of the usual tacking. The machine combines several operations which were previously produced on several machines, i. e. pulling over, lasting of the sides, and pounding up. The advantages of this machine are: high productivity, improved quality, physical fatigue, reduced maintenance costs, saving in space, improved working conditions, and particularly, noiselessness.

KOVOEXPORT, Czechoslovak Export Magazine of the Czechoslovak Light and Precission Engineering Industry.

2573 Veldtschoen Toe Lasting Machine

The machine pulls veldschoen foreparts over the last on one single operation and at the same moulds and cements the middle sole to the shoe.

Output of the machine approx 1 200 left or right shoes, i. e. 600 pairs in 8 working hours.

Surface Upper Trimming Machine

For trimming the surplus lasting allowance on the forepart of welted work.
Output 1500 pairs in 8 working

2575 Universal Heel Seat Lasting Machine

For lasting the heel seat of men's ladies' or children's shoes in a single operation. The shoe is lasted with tacks. Output in 8 hours according to the kind of foot-wear, maximum 2000 pairs. To be used with lastings tacks 8—14 mms. Number of tacks driven into the heel seat adjustable according to the kind of footwear to 12, 14, 16, 18, or 20 tacks.

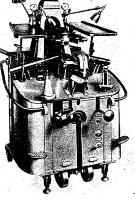
2577 Toe Wiping and Pulling Over Machine

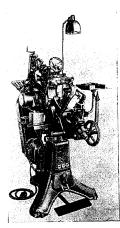
The machine pulls the upper over the last in the forepart; the fastening is done by hand with wire. Output approx. 500 pairs in 8 hours.

2576 Pulling Over Machine No. 02042/P1

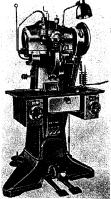
The machine is used in the shoe making

The machine is used in the shoe making industry for the pulling over operation i. e. for pulling the upper over the last on the forepart by means of three pincers, and for fastening the upper to the insole with 5 tacks, of which one is driven in the toe section, and two in the sides. On this machine it is possible to pull-over any kind of footwear, i. e. ladies'fancy shoes, working and sports boots, children's footwear, and welted footwear. The size of the shoe is of no importance, as the machine allows quick adjustment for any shoe size. Approximate output 1000 pairs in 8 hours.





263





2578 High Speed Outsole Stitcher

For attaching leather or rubber soles to the welt or the upper. Output in 8 hours depends on the kind of work and the skill of the operative.

When stitching light-weight footwear 500-600 pairs When stitching heavy footwear

Maximum number of stitches 960/760

per min.
Maximum stitch length 5 mm
Maximum thickness of the wide edge

Chain Stich Welt Sewing Machine (6562 - 56.

For attaching welts to shoes with a single thread chainstitch lying on the top of the welt. The machine can be used for stitching welted work of any kind from stitching weited work of any kind from the smallest shoes for children to the heaviest sporting shoes with plain American, or skiing boot welts.

Output approx. 500 pairs in 8 working

2580 Sole Rolling Machine with Moistening

Used in shoe repair shops for rolling and condensing soles in order to obtain increased elasticity and to improve the wearing quality of the sole. Working height measured to the clearance between the rolls 1000 m. Roll clearance adjustable from 2—12 mm.

2581 Rounding and Channeling Machine

For simultaneous rounding and channeling of welted and flexible shoes on the

Output in 8 hours approx. 1 000 pairs of welted footwear, or 1 500 pairs of flex-

Sole Laying Press No. No04041/P1

The machine is used in the shoe production for laying the sole prior the machine is used in the shoe production for laying the sole prior to stitching. The sole laying is performed moulding units into which compressed air is driven under a pressure of 1—5 atm. Where steel fillings are laild below the sole the machine can be used for levelling welted footwear on the last. The operation levels all the unevenesses on the sole bottom. The levelled sole does not harden and remains flexible.

2583 Sole Screwing Machine

The machine is used for attaching soles to heavy leather boots (working and skiing boots) with the aid of screws cut by the machine from screwed wire. This method gives a very firm purchase with the sole. or of two soles with the insole. Output of the machine approx. 800 to 1 000 pairs in 8 hours.

2584 Surplus Trimming Machine for Welted Work

The machine is used in the production of welted footwear for trimming the surplus on the inside edge of the welt after the stitching to the upper. Output approx. 1 200 pairs in 8 hours.

Roughing up Machine No. 04152

The machine is used for roughing up uppers and bottoms before cementing soles, and for cleaning away the roughing up waste. An exhauster with filter draws off the dust arising during work. The good design of the fan hood with exhausting mouth of ample size enables unobstructed handling of the worked shoe.

2586 Combined Channeling and Skiving Machine

The machine is used for cutting a single channel into the insoles for welted foot-wear; after adjustment and exchange of the respective mechanism it can also be used for skiving ladies' soles in the forepart and the waist.
Output approx. 2000 to 2400 pairs in 8

2587 Upper Part Marking Machine

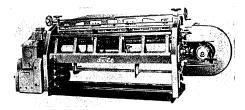
The machine is used for marking and numbering various semifinished parts made from leather, textile, rubber or wood, either by heat branding, branding over a coloured ribbon, or cold embossing. The output of the machine varies from 2000 to 4000 pairs, in 8 hours, according to the kind of work.



2583



2584



2588 Band Knife Splitting Machine

Used for splitting leather in the wet state (vegetable tanned pelts or chrome tanned leathers), mainly cowhides of a green weight ranging from 30–50 ks. The machine splits the leather into a grain portion of even thickness, and the flesh side split leather. After exchange of the feed roll wet pelts can be split. Output of the machine approx. 500 to 600 cowhides in 8 hours.

2589 Shaving Machine No. 07437

The machine is used for shaving, i. e. evening the thickness of all kinds of upper leather. The present model of the machine represents an improvement on older types it being equipped with a grinding equipment. Another technical improvement is the seating of the bladed cylinder. The main difference between the old and the new machine is, that the new machine has a rigid mandrel on which the cylinder rotates. Output of the machine approx, 280 calf leathers in 8 hours.

2590 Continuous Leather Rolling Machine No. 07445

The machine serves for continuous rolling of bottom stock bends. It consists of several rolls as used in the machine 07431. These are arranged in series to ensure that the leather does not wrinkle so that a perfectly rolled leather is obtained.



2591 Plimsoll Moulding Press

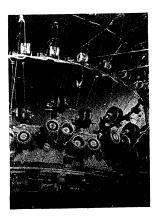
The machine is used for moulding of foreparts of lasted plimsolls, i. e. levelling of the pleats on the lasting allowance, and for forming the feather-line of the plimsoll. The operation is carried out by means of electric heated moulds which may be changed according to the type and size of men's, ladie's and children's footwear. Output 1000 pair per 8 hours.

2592 Press for Toes of Lasted Uppers

The machine is used for moulding the lasted foreparts in electrically heated moulds which are exchangeable to suit the various shapes and sizes of men's ladie's, and children's footwear. Output in 8 hours 1000 pairs of shoes.

2593 Interlock Knitting Machine

For the production of children's ladies', and men's underwear and of top garments.
Technical Data: 18", gauge 20.
Motor 220/380V, 50 c/s±, input 1,1 kW, 1400 r. p. m.
Rotations of bed plate 38 per min.
Number of feeders 24.



2594 Double Cylinder Knitting Machine D2Lc

For the production of children's, ladies' and men's hose, semihose, and three- quarter hose in plain or ribbed pattern, with cross stripes of any desired width, in two basic and one additional colour altering after one course. Also children's leggings can be knitted on this machine. The hose can further be knitted in tuck pattern, with tuck pattern or any pottern wales.

nap pattern wales.

Type D2Lc, needle gauge 14, dia. $3^{1}/2''$ — 156 needles. Motor 0,25 kW. Output in 8 working hours 40—80 pairs, according to size and kind. Speed of the machine for knitting the welt, the leg, and the foot 150 courses/min. to 316 courses per min., speed for knitting the heel and the toe 90 r. p. m.

2595 Single Cylinder Knitting Machine JDa

The machine has been designed for completely automatic knitting of seamless ladies' stockings from polyamidic fibre. The output of the machine varies from 14—15 pairs per 8 hours according to the desired length of the stockings.

length of the stockings.

Cylinder diameter 3¾", gauge 34, i. e. 34 needles per inch. Number of needles over the whole circumference 400.

KOVO

267

2596 Automatic Double Cylinder Twin System Knitting Machine D2Rc

This is a hose knitting machine equipped with pattern tackle for patterned welts, with a two-feeder striping equipment, and with an attachment for elastic laying. The second system incorporated in this machine increases the productivity of work by 30 to $40\,+$ and increases the colour variation of the pattern. It is specially suitable for seamless plated men's and ladies' three-quarter hose with an elastic laid into the 1:1 welt, and for semihose and anklets of the usual kinds.

2597 Cotton's Frame

A fully automatic machine with uninterrupted operation, not requiring any operation by the worker, producing fully fashioned ladies' stockings fhe machine allows working any of the usual viscose, cupric. natural, and polyamide fibres. The machine is a twin unit consisting of two sections. Width of one section 15 inches, i. e. 381 mm, needle gauge 48. i. e. 48 needles per half an inch. Output of the machine 100 courses per min. i. e. 14—15 pairs of stockings per 8 hours.

2598 Flat Bed Knitting Machine

This machine is intended for manual knitting of fashion ware, such as pullovers, blouses, shawls, etc.

Needle Gauge 10, i. e. 10 needles per inch. Working width 100 cm, weight of machine 150 kg.

2599 Post Bed Sewing Machine with Trimmer No. 01090/P6

The machine is used for sewing folded uppers under simultaneous trimming of the lining, or of the lining with the upper. It is a high speed machine making 2700 stitches per minute, equipped with a drop feed ensuring uniform and safe feed of the material. The machine is engaged by a pedal controlling a friction clutch with a brake. The latter enables quick acceleration, any desired speed, and quick stopping without any impacts. Engagement and disengagement of the trimmer is possible during operation of the machine.

2600 Single Needle Sewing Machine with Wheel Feed No. 01153/P2

This high speed machine makes 2 800 stitches per min. It is equipped with a rotary shuttle, a wheel feed and a presser wheel and finds use in the shoe upper closing shop for attaching toecaps, counters and vamps, and for joining and sewing fancy trimmings. It allows sewing semistiff leather and textile materials. Equipped with a friction clutch and a brake the machine enables quick starting, speed variation at will, and stopping of the machine without impact.

2601 Heavy Duty Single Needle Post Bed Sewing Machine No. 01192

The machine is used for closing vamps of heavy boots, for attaching welts to veldtschoen, and for attaching moccasin vamps. The machine makes 1 400 stitches per minute. It is equipped with a rotary shuttle which is vertically arranged, with a drop feed, and a presser wheel. The stitch length can be adjusted by turning of the eccentric wheel.

2621 Postal Automatic District Telephone-Network

(Complete plant in service.)

2622 Automatic Railway-Station Telephone-Network

(The exchange is equipped with all elements used in the railway-network.)

2623 Despatching Installation with Loud Telephones

(The despatching plant will serve for communication between several points of the exhibition, i.e., it will be operated during the fair. Sound telephones will be installed at the terminals.

2624 Automatic Electronic Telephone Exchange

Electron tubes with cold cathodes and transistors are used for building up communication links. The exchange operates without any electromechanical elements.

2625 Branch Exchange with Motor-Operated Selectors

For 40 participants with 5 direct links and 5 public links. Newly developed motor-operated selectors TESLA are being used. The exchange is provided for co-operation with the public network with fully-automatic trunk ser-

2626 Telephone Equipment for Fire Service

2627 Telephone Instruments for Public Exchanges

Various types of telephone instruments.



2628 Various Telephone Working Spots

2629 Automatic Branch Exchanges

Finder and relay systems.

2630 Various Components for Communications Equipment

Sound instruments, bells buzzers, bell reductors, hooters, electrical gate-keeper, house stations, etc.

KOYO

269

2631 Electrical Power Sources
Rectifiers, feeders, switchboards.







270



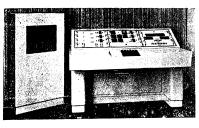
2632

L. E. Amplifying Station

2633

H. F. Amplifying Station

KOVO





2632

2641 Closed-Circuit Transmission DR 80

Complete exhibition of a closed-circuit transmission installation.

2651 Telecommunication Equipment in Power Stations

H. F. telephone and remote measuring and signalling equipment in power stations.

2661 Measuring Instruments for Telecommunications

Various kinds of measuring instruments for telecommunications. KRV 1, RUV 020.

2671 Short-Wawe Radio-Transmitters
KRV 1, RUV 020.

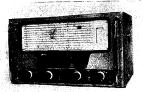
2672 Television Transmitter

2681 Television Reporter Repeator Station

For retransmitting television signals; mobile design operating in the 3,2 cm band. Directional parabolic antenna.

2691 Diversity Reception Equipments

 $\begin{array}{lll} {\rm SW.~three-times} = {\rm Type} & {\rm ZVP3} \\ {\rm ~double} & = {\rm Type} & {\rm ZVP2} \\ {\rm Range} & {\rm ZVP~2} & {\rm 3-24~Mc} \\ {\rm ZVP~3~0.3-30~Mc} \\ {\rm Sensitivity~better~than~1~u~V.} \end{array}$

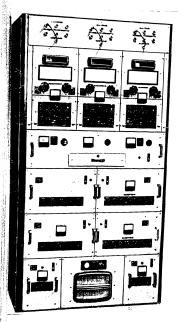


2692 Communication Receiver Lambda V

11 ranges 0,3—30 Mc.

2682 Model of a Remote Television Repeater

KOVO



2691



2712 Transistor Receiver Minor

272

The L. F. amplifier is replaced by transistors.



2701 Television Measuring Equipment

Equipment TMZ 1.

2702 Large-Screen Television Receivers

Various television receivers.



2711 Radio Receiver

Various new wireless sets for quality reception.



Motor-cyclests who are exacting with regard to the quality and output of their machines ride on JAWA- $\ddot{c}Z$.

KOVO

2713 Subminiature Transistors Receiver

Superheterodyne receiver, electron tubes replaced by transistors, supply battery 22,5 V with ferrite antenna.

2714 Musical Set Jubilant

Gramoradio with magnetophone.



Band-Type portable magnetophone.
Band speed 19 and 9½ cm per sec.
Sensitivity for the microphone 0,5 mV.
Sensitivity for the radio 50 mV.
Double-impress record
Acoustic control by means of an earpiece.

2732 Studio Magnetophone Band speed 77 cm per sec., incoming voltage 0,2 mV.

2751 Automatic UKV Rangefinder

Designed for air-traffic. It shows the direction of the aircraft by means of a scanning screen. Automatic course ranging. Range of frequencies 118—136Mc/s. Remote indication up to 5 km. Five frequency channels.



2721 Various Kinds of Radio Stations

Radio stations Fremos, Orlík.



2741 Bailway Despatch Equipment

Establishes communications between the despatcher and the moving locomotive thus speeding up traffic and increasing its safety. Receiver-transmitter on USW.

2752 25 Channel Deck Radio · Station

For aircraft communication, 25 frequencies, crystal operated, service Simplex on USW.

CZECHOSLOVAK MOTOR REVIEW, Praha 1, Ul. 28. října 13, will gladly send you a complimentary copy.

KOVO

2761 Repeaters
Various types of repeaters.

2762 Microphones

Various types of microphones with auxiliary equipments.

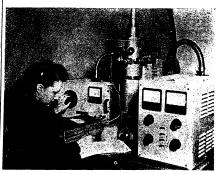
2771 Model of the Strahov Stadium

Communications equipment as installed and operated during the first State Spartakiade.



Constructional Components for Modern Radio-Communication Techniques

Up-to-date technology tuning condensers, miniature condensers with thermal coefficient O. Subminiature interfrequency transformers, etc.



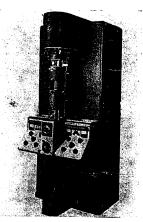
2781 Desk Electronic Microscope

Type BS 242, maximum magnification 25 000 to 30 000 times, discriminating capacity abt 50 A, suitable for photographing speciments, replacement of speciments without deteriorating vacuum.

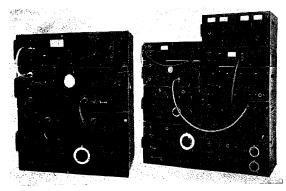
2782 Universal Electronic Microscope

274

Type BS 241, the same properties as type BS 242, only without the possibility of replacing specimens without deteriorating the vacuum.

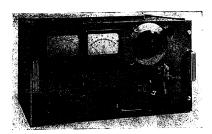


KOYO



2791 Electronic Measuring Instruments

Various types of electronic measuring instruments.







KOVO

CONTROL OF ALL AREAS OF THE ACTION ACTIONS AND THE SECOND TO ACTUAL THE SECOND SECOND



2866 Various Types at Lamps

Standard dar projectic motors, illuminating invokproof railways mines surgival minabley, philography, glimmi nurgica, operation drying, etc.

2810 Various Fluorescent Lamps

20 W, 25 W, 45 W

2801 Special Electron Tubes for Transmitter Rectifiers 2811 Plane Transistors, Type N-P-E

2802 Miniature direct-heated battery electron tubes

2812 Thermistons

2803 Miniature indirect-heated electron tubes

2813 Silical diodes and mixers

2804 Video electron tubes for oscillographs

2814 Subminiature Reception Electron-Tubes

2805 Video electron tubes for television

2821 Various Equipments for

2806 Semiconductors (germanium point diodes)

Various Equipments for the Electro Vacuum Technique

2807 Selenium photoelectric cells

Measuring desk, leakage finder, point spectrograph, viscosity meter for testing glass, etc.

2808 Beiger Müller tubes

The \$EODA and TATRA automobiles have numerous advantages on

which you will be informed by the CZECHOSLOVAK MOTOR REVIEW.

Praha 1, Ut. 28. října 13.

KOYO

SYMBOLS OF QUALITY STROJEXPORT ŠKODA - SIGMA - TOS - ČKD ECHNOEXPORT MOTOKOV ŠKODA - MEOPTA - CHIRANA - T 0.0 ΚΟΥΟ 25X1