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CIA HISTORICAL REVIEW PROGRAM
RELEASE AS SANITIZED
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25 August 1975

MEMORANDUM FOR: Mr. Jeremiah F. Kratz
Division of International
Security Affairs
US Energy Research and
Development Administration

SUBJECT : Soviet NC Machine Tool Plants

1. Attached, as you requested, is a listing of plants in the USSR which produce NC machine tools. Three of these plants -- the Leningrad Electrical Engineering Works, the Leningrad Electromechanical Plant, and the Tomsk Mathematical Machinery Works -- believed to be under the Ministry of the Instrument Building Industry, produce controllers only. Among the remaining plants, the one located at Savelovo is subordinate to the Ministry of the Aviation Industry; the others are under the control of the Ministry of the Machine Tool Industry.

2. Please refer any questions to who prepared the attachment.

Office of Economic Research

Attachment:
as stated

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ATTACHMENT

Soviet Producers of NC Machine Tools

<u>Location</u>	<u>Name of Plant</u>	<u>Products</u>	<u>Comments</u>
Charentsavan	Charentsavan Machine Tool Plant	NC milling machines	Charentsavan reportedly is one of six plants scheduled for series production of NC machine tools.
Gorkiy	Gorkiy Milling Machine Tool Plant	NC milling machines	Gorkiy is known to be using NC machine tools on the production line. Twelve NC machines in one section produce flanges and cap parts; nine NC machines in another section produce gears and separators.
Ivanova	Ivanova Boring Machine Tool Works	NC horizontal boring mills	
Kolomna	Kolomna Heavy Machine Tools	NC milling machines	Kolomna has produced the 1540PR milling machine, a high-powered machine tool designed for further machining of 1,000 megawatt turbine blades.
Uybyyshev	Central Volga Machine Tool Plant	NC screw-cutting lathes	

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Soviet Producers of NC Machine Tools (continued)

<u>Location</u>	<u>Name of Plant</u>	<u>Products</u>	<u>Comments</u>
Leningrad	Leningrad Electrical Engineering Works	NC controllers	This plant and the Electro-mechanical plant listed below may be the same facility.
Leningrad	Leningrad Electro-mechanical Plant	NC controllers	Leningrad Electromechanical plant reportedly is a major producer of controllers for machine tools. The Soviets claim that some models produced in this plant have a full 5-axis contouring capability.
Leningrad	Sverdlov Machine Tool Plant	Machining centers NC horizontal milling and boring machines	Reportedly, Sverdlov was preparing to begin serial production of a machining center as early as 1972.
Lvov	Lvov Milling Machine Works	NC milling machines	Construction of the Lvov plant apparently was completed in 1974, about one year behind schedule. A new facility, it may be equipped with more modern machine tools than the other plants listed herein. About 1,000 NC machine tools will be produced annually at Lvov when capacity output is attained.

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Soviet Producers of NC Machine Tools (continued)

<u>Location</u>	<u>Name of Plant</u>	<u>Products</u>	<u>Comments</u>
Moscow	Krasny Proletariat	NC lathes and vertical boring mills	
Moscow	Ordzhonikidze	NC turret lathes	
Moscow	Stankokonstruktsiya	NC lathes; NC vertical milling machines	
Odessa	Odessa Precision Machine Tool Plant	Machining centers	
Ryazan	Ryazan Machine Tool Works	NC lathes and chucks	

Produces a 30 tool machining center, model 24VF4 (Stanki 1 Instrument, October 1973). Produces a horizontal milling and boring machine, model 6906VMF2 (Stanki 1 Instrument, April 1974).

Ryazan reportedly has a special complex for serial production of NC machine tools. Annual output of program-controlled machine tools at Ryazan is scheduled to reach 1,500 by 1975.

Two sections at the Ryazan are outfitted with NC machine tools. The NC equipment in one of these sections is used to machine gears.

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Soviet Producers of NC Machine Tools (continued)

<u>Location</u>	<u>Name of Plant</u>	<u>Products</u>	<u>Comments</u>
Savelovo	Savelovo Machine Tool Plant		The plant at Savelovo is under the control of the Ministry of the Aviation Industry and probably produces state-of-the-art NC machine tools.
Tomsk	Tomsk Mathematical Machinery Works	NC controllers	The plant at Tomsk, under the direction of the Ministry of Instrument-making, Automation Equipment, and Control Systems, produces controls for machine tools.
Ul'yanovsk	Ul'yanovsk Heavy Machine Tool Works	Machining centers	Reportedly, Ul'yanovsk began producing the 654F3 machining center in 1972 after the model had passed the required tests.

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