

~~SECRET~~

SP/KPC

CSM No. 394

15072

Copy No. 30  
16 July 1956

## CURRENT SUPPORT MEMORANDUM

NEW RESEARCH INSTITUTE FOR METALFORMING

CIA HISTORICAL REVIEW PROGRAM  
RELEASE AS SANITIZED  
1998

OFFICE OF RESEARCH AND REPORTS

CENTRAL INTELLIGENCE AGENCY

This report represents the immediate views of the originating intelligence components of the Office of Research and Reports. Comments are solicited.

~~W - A - R - N - I - N - G~~

This document contains information affecting the national defense of the United States, within the meaning of the espionage laws, Title 18 USC, Sections 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

P. 4

~~SECRET~~

NEW RESEARCH INSTITUTE FOR METALFORMING

A recent Soviet newspaper article revealed that an Experimental Scientific Research Institute of Press and Forging Machine Building (ENIIKMASH) is being organized in Voronezh, the center of Russia's metalforming machinery industry,\* under the jurisdiction of the Ministry of Machine Tools. Eventually, the Institute will employ 700 persons, and an experimental plant attached to the Institute is to be built. The article, criticizing the fact that the construction of the main building has not yet begun, lists the Institute's functions as the following:

1. working out theoretical questions concerning press and forging machines and the pressure processing of metal;
2. developing the theoretical bases for the planning of highly productive automatic presses and automatic lines; and
3. creating new technological processes.

In the past, the only theoretical research on forming and forging processes has been conducted by TsNIITMASH, the Central Scientific Research Institute of Technology and Machine Building of the Ministry of Heavy Machine Building. 1/

Both the structure and the responsibilities of ENIIKMASH have a striking resemblance to the Experimental Scientific Research Institute of Metalcutting Machine Tools (ENIMS) in Moscow. ENIMS and its experimental plant, Stankokonstruksiya, have contributed substantially to the progress of the highly developed machine tool industry. 2/

Unlike the machine tool industry, the Russian metalforming machinery industry is not comparable to the US counterpart in total production or machine design. V. A. Malyshev, Chairman of Gostekhnika, has called the pressing and forging shops in Russian industry a "bottleneck", announcing that the re-equipment of machine building plants must begin in that area. 3/ The establishment of ENIIKMASH is apparently designed to augment a current drive to increase and diversify USSR production of metalforming machinery. In 1960, the USSR plans to produce 25,800 metalforming machines, an 85 percent increase over the 1955 level (13,900 machines). 4/ Four new metalforming equipment plants are under construction in western USSR--at Azov, Dnepropetrovsk, Voronezh, and Ryazan. 5/ In addition six new plants will be built in Siberia and the Urals during the Sixth Five-Year Plan period. 6/

In the past, plants subordinate to many ministries have produced metalforming machinery, chiefly those of the Ministry of Machine Tools and the Ministry of Heavy Machine Building. The establishment of ENIIKMASH is a further indication that the Ministry of Machine Tools will have primary responsibility for the success of the current drive to expand metalforming machinery

\* The term "kuznechno-pressovyye mashiny" appears to be synonymous with our term "metalforming machinery" and includes hot and cold forging machines, mechanical and hydraulic presses, and bending and forming, punching and shearing, and riveting machinery.

~~SECRET~~

production. This does not, however, minimize the importance of heavy machine building plants such as Uralmash and NovoKramatorsk who have the machining and casting capacity to build very large presses.

Analyst:

1. "New Scientific Research Institute Progressing Slowly", Promyshlenno--Economicheskaya Gazeta, 21 Mar 56, U
2. CIA. RR, IM-429, 1 May 56, p 12, S
3. CIA. FDD Report #U-7989, "For the Greatest Technical Progress in Machine Building", by V. A. Malyshev, Partiynaya Zhizn' #13, Moscow, July 55, pp 19-25, OOU
4. Pravda, 26 Feb 56, p 2, U
5. FDD Summary #774, Production of Industrial Equipment (18), 5 Jan 56, OOU  
FDD Summary #978, Production of Industrial Equipment (24), 28 Jun 56, OOU  
FBIS #142441, 2 Apr 56, OOU
6. CIA. FBIS, Daily Report (USSR and Eastern Europe) #11, 17 Jan 56, p DD 4, OOU

~~SECRET~~