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 CENTRAL INTELLIGENCE AGENCY REPORT  
 INFORMATION FROM  
 FOREIGN DOCUMENTS OR RADIO BROADCASTS CD NO.



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COUNTRY **USSR** DATE OF INFORMATION **1949**  
 SUBJECT **Transportation - Snow-clearing machinery**  
 HOW PUBLISHED **Monthly periodical** DATE DIST. **20 Oct 1949**  
 WHERE PUBLISHED **Moscow** NO. OF PAGES **2**  
 DATE PUBLISHED **Aug 1949**  
 LANGUAGE **Russian** SUPPLEMENT TO REPORT NO.

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SOURCE Mekharizatsiya stroitel'stva, No 8, 1949.

NEW MODEL D-166 SNOWPLOW DESCRIBED

The "Dormashina" Plant in Shcherbakov has begun production of the D-166 endless-screw snowplow. Until now, no plows of this type had ever been built in the USSR.

The D-166 is built on the chassis of the YaAZ-200. The two endless-screw blades are operated by a special motor mounted on the rear of the chassis. The rotor blower casing can be slewed 60 degrees, making it possible to throw the snow to either side of the moving plow.

The plow will operate in snow up to 1.5 meters deep, throwing the main bulk of the snow 15-25 meters from the plow. The average snow-moving capacity of the machine is 650 cubic meters per hour; width of swath, 3.1 meters. Average fuel consumption for the two motors, 26 kilograms per hour; fuel consumed per ton of snow removed, 40 kilograms; speed while not plowing, 25 kilometers per hour; minimum operating speed while plowing, 0.42 kilometers per hour. Overall dimensions of the machine, 9,800 millimeters x 3,155 millimeters x 2,820 millimeters; minimum radius of turn, 15 meters. Total weight, 15,690 kilograms.

The endless-screw blades, set at a pitch of 450 millimeters, revolve at 408 rpm. The six-bladed rotary blower into which the loose snow is fed turns over at 408 rpm.

The engine which operates the plow mechanism is a 150-horsepower Diesel which develops at 1,500 rpm. The 230-liter fuel tank is located in front of the engine. Two 12-volt storage batteries operate the starting mechanism.

The plow frame is raised and lowered hydraulically. A Shoh-35A gear pump provides pressure for the system. The system's tank holds 20 liters of oil.

Despite its bulkiness, the D-166 proved to be a highly productive and economical machine in tests made during February and March this year. The plow moved well along snowy roads.

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Its average snow-moving capacity was found to be 650 tons per hour [sic. Cf "650 cubic meters per hour" above].

The D-166 is superior to the imported plows of similar design; such foreign models burn 40 kilograms of gas per hour while removing only 400 tons of snow.

The operating speed of the D-166 varies between 0.42 kilometers per hour and 1.65 kilometers per hour.

Shortcomings of this plow are its wide turning radius and overloading of the frame, which cut down its maneuverability.

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