

“AVANTECHNO” PORTABLE BORING AND WELDING MACHINES

This equipment is developed by engineers of "AVANTECHNO" JSC (Moscow, Russia) in collaboration with design office of "DYNAMO".

These complexes are designed for reconditioning of worn cylindrical holes situated on large-sized machines, mechanisms and parts.



This technology enables a restoring process using one single complex containing boring and welding features. The machine tools are mounted directly on the place where it has to be worked. Other parts and elements disassembling are not needed.

A quick-detachable fastening of drive unit provides simplicity of putting on and secures complex parts against the mutual crank.

Specially engineered DC electric drives give a constant high torque characteristic at any numbers of revolutions.



The boring bar made from chrome-plated steel provides a high-strength quality and endurance.

The each-to-other boring bar connecting joint (patented) based on double-sided cone provides high precision and reliability and protects for undesirable unscrewing because of vibration.



The adjustable collets clamp enables a basing of bearing supports on external cylindrical surface of boring bar which greatly improves rigidity of assembly and precision of works.

The inside-mounted power control unit does not require a heavy-duty interface cable and connectors.

The complex is supplied with high-quality bearings from NSK or FAG.

The New generation of Portable Boring and Welding machines **“AVANTECHNO”** used in the following applications :

1. Hydraulic cylinder ears
2. Seat for the central wrist pin of a dredge
3. Bearing part and stub axle of a wheel
4. Lower support for boom of reach stacker



Technical Specifications	AVANTECHNO -411	AVANTECHNO -611
Working diameter, mm (min - max)	Ø 45 - Ø 400	Ø 65 - Ø 600
Welding diameter, mm	Ø 45 - Ø 400	Ø 65 - Ø 600
Boring bar stroke @ single clamping, mm	250	300
Boring stroke @ reclamping	Unlimited	
Fit per revolution, mm	0 - 0,5	
Diameter of boring bar, mm	40	60
Boring bar length, mm	2200 + 1800	2x2000 + 1000
Machining accuracy	till 0,01mm (tolerance range H7)	
Ability of increasing the length of the boring bar	Yes	
Power supply, Watt	A/C 220V/50Hz/1PH 3000W	
Rotation Drive, Watt	Electric DC, 1PH 2000W	
Feed Drive, Watt	Electric DC, 1PH 180W	Electric DC, 1PH 300W
Boring bar, rpm	0 - 450	0 – 300
Overall dimensions of the equipment, mm	780x300x420	830x300x440
Weight of drive unit, kg	46	50
Shipping weight of complex, kg	230	300



Coaxial boring of several holes simultaneously



On site service and repair at the lowest possible cost.
Machining into blind holes.

