



ACIGRAF

CUTTING AND POLISHING MACHINE

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CUTTING AND POLISHING MACHINE "STEEL" MODEL

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■ MACHINE CONSTRUCTION FEATURES

- Fabrication consisting of a very thick, aged and electrically welded steel bed, with high precision inserted and ground slideways.
- Stone and tool carriage and mobile headstock with slideways coated with synthetic anti-friction material
- Stationary headstocks made in cast-iron
- Movement of the stone carriage and headstocks with an anti-backlash ballscrew.
- Pump for forced lubrication of the ground slideways

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■ MACHINE CONSTRUCTION FEATURES

- Cylinder rotation and movement of stone and tool carriage by variable speed motors.
- System for stone polishing with variable speed motor and cylinder ovality correction.
- Tool holding turret for positioning the tools for rough turning, finishing and for smoothing cylinder cheeks

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- As far as the cylinder adaptors are concerned, the machine can be equipped, according to cylinder types

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- **For hollowed cylinders:**

- a) with cones of various inclinations, according to the cylinder construction features

- **For shafted cylinders**

- a) system with headstocks holding the cylinder shaft centers

OR

- b) system with lubricated bearings, where the rotation is on the cylinder tempered bushes as on printing machines

OR

- c) system with self-centering chucks

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■ SOFTWARE FEATURES

- Automatic compensation of stone wear for constant polishing pressure
- Selector for rough and finishing cycles with automatic pressure change and stone revolution speed variation
- Controls driven by a PLC with possibility of working both in semi-auto and manual
- Digital diameter read-out of sizes through optical line

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■ SOFTWARE FEATURES

- Programmer of the number of the cuts
- Pre-arrangement for placing further automatic controls
- Zero setting of the tool after each cut
- Automatic pressure control of the stone
- Self-diagnostic signaling possible breakdowns

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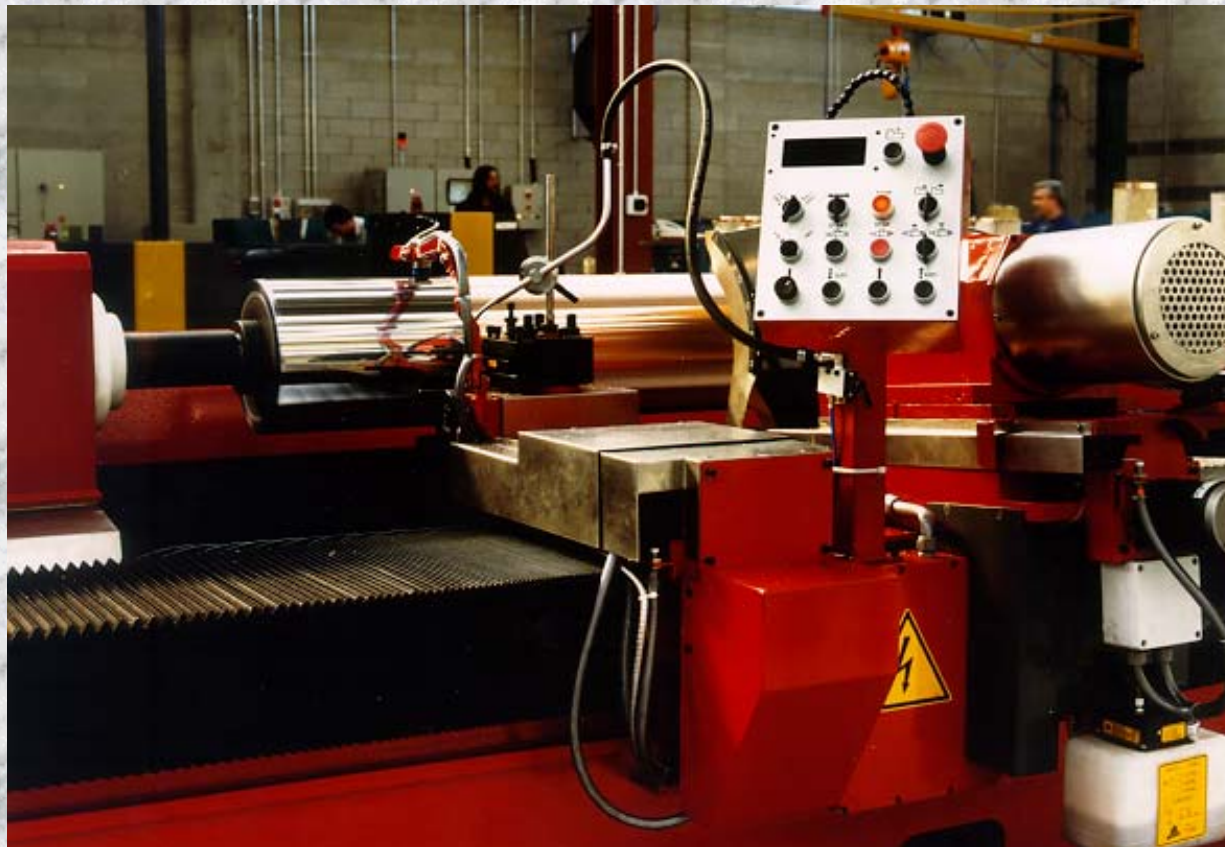
■ POLISHING OPERATON

■ ITS POSSIBLE INPUT DIFFERENT PARAMETER

- Working pressure of grinding stone
- Grinding stone rotation speed
- Cylinder rotation speed
- Polishing runs number
- Carriage movement speed

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■ CUTTING OPERATION



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- **POLISHING OPERATION**

