

EXTERNAL CYLINDRICAL GRINDING MACHINE: RCN



TECHNICAL FEATURES OF STRAIGHT WHEEL

- Grinding length: 1500 to 3000 mm
- Max. diameter: 600 mm
- Wheel diameter: 750x100x304'8 mm
- Wheel head of 22 kW.
- Peripheral wheel speed: 45 and 60 m/s.
- CNC: SIEMENS 840D

BASE

- Amply sized perlitic cast iron with the ribs necessary to ensure good machine rigidity and vibration -free running.

TABLE - "Z" AXIS

- Table driven by A.C. type motor and high precision ball screw
- Mounted on machine base.
- Infinitely variable working speed between 0,1 and 6.000 mm/min.
- Stroke reading by encoder.
- Maximum stroke: 3.000mm.

WHEELHEAD -"X AXIS"

- Slide driven by A.C. brushless type motor and high precision ball screw.
- Maximum stroke: 300 mm.
- Stroke reading with linear glass scale.
- Positioning resolution: 0,001 mm
- Infinitely variable working speeds between 0'1 and 6.000 mm/min.

WORKHEAD

- Designed to work with rotary or fixed centre.
- The main spindle of special steel is ground and lapped, and runs on bronze bearings oil lubricated by immersion.
- The spindle is driven by a digital motor.
- Allowing to grind tapers in work pieces clamped to front chucks.

TAILSTOCK

- Sleeve mounted on lineal high accuracy bronze bearings
- Built -in a device for taper correction by a micrometric nonius.

DRESSING UNIT

- Fixture mounted on the tailstock.
- Dressing cycle is programmable through CNC control and can be integrated into the grinding cycle if required.

FULL COVER

TELESERVICE.

CONTROL SIEMENS 840 D.

GRINDING WHEEL HEAD

- Peripheral wheel speed: 45 m/s to 60 m/s.
- The main spindle is made of special Cr Ni steel, ground and lapped. It is supported on hydrostatic bearings, which means that the system can respond to the highest demands in roughness, geometrical accuracy and precise tolerance on work pieces.
- Its main features are:
 - Smooth, accurate rotation.
 - Excellent shock-absorption thanks to the oil film produced between bearing and spindle.
 - High stiffness.
- Long spindle life, due to the absence of metal to metal contact during running, whilst the hydraulic circuit is switched on
- The bearings are lubricated via an independent hydraulic unit with safety devices capable of protecting the spindle /bearing clearance.
- The main spindle is driven by a dynamically balanced A/C powered motor with pulley and V-belts.



MAIN EXTRA ACCESORIES

- Coolant equipment.
- Oil mist exhauster.
- Internal grinding spindle.
- Frequency variator.
- Dynamic balancing system.
- Measuring unit.
- Support steady rest.
- Self centring chuck.

GRINDING CYCLES AVAILABLE

- Straight plunge.
- Straight plunge with oscillating movement.
- Table reciprocating grinding.
- Diametrical dressing of the wheel.
- Face dressing of the wheel.
- Convex and concave radius grinding.
- Automatic wheel wear compensation.
- Linear and circular interpolation.

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