

# Doimak

## MULTIFUNCTIONAL HEAVY RANGE GRINDING MACHINES : RCN-G-SP



### DESCRIPTION

Doimak RCN-G-SP grinding machine is a last generation grinding machine, designed to grind cylindrical parts of large dimensions.

The main features of this model are the following:

- Automatic rotary axe, which allows the incorporation of several heads, to be able to make different operations with only one clamping.
- Fixed part, both movements (X and Z) are with the wheel head.
- High accuracy, productivity and flexibility.
- Operator interface is made by means of iconographic self-teaching masks, so no programming knowledge is required for its use.

### TECHNICAL FEATURES

- Distance between centers: 3.000/4.000/5.000/6.000 mm.
- Maximum work piece diameter: 1.000 mm.
- Maximum wheel diameter: 1.060 mm.
- Angular positioning:  $-15^{\circ}/225^{\circ}$ .
- Siemens Control 840 D.



#### GRINDING WHEEL HEAD

- Peripheral wheel speed: 45 m/s.
- Hydrostatic bearings.
- Digital A.C. powered motor (11/20/37 kW) with pulley and belts.

#### TAILSTOCK

- Automatic regulable, clamping force.
- Stroke of 100 mm.

#### DRESSER.

- Mounted on the work head or tailstock.
- Single point diamond blade.
- Dressing cycle is programmable through CNC .

#### CNC CONTROL SIEMENS SINUMERIK 840-D

#### ACCESSORIES

- The device for internal grinding disposes of a mandrel of 7 kw and 12.000 rpm.
- It is possible to attach different tips allowing to grind holes of up to Ø 450 mm and 550 mm deep.

#### GRINDING CYCLES AVAILABLE

- Right plunge grinding.
- Right plunge with oscillatory stroke.
- Table reciprocating grinding.
- Dressing of the wheel.
- Automatic wheel wear compensation.

#### **DOIMAK - 20870 ELGOIBAR-GUIPUZCOA-SPAIN**

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#### BASE

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

#### WHEEL HEAD SLIDE - "Z" AXIS

- Mounted on the machine base.
- Slide driven by digital type A.C. servomotor and ball screw.
- Stroke reading by encoder.
- Positioning resolution: 0,001 mm.
- Max. travel speed: 12.000 mm/min.

#### WHEEL HEAD SLIDE -"X" AXIS-

- Mounted on the "Z" axis.
- Slide driven by digital type A.C. servomotor and precision ball screw.
- Slide stroke reading by glass scale.
- Slide positioning resolution: 0,001 mm.
- Max. travel speed: 6.000 mm/min.

#### ROTATING SLIDE "B" AXIS

- Automatical positioning between -15°/225°
- Possibility to integrate different solutions.
  - 2 external grinding wheel heads
  - Internal and external grinding.
  - Etc..

#### WORKHEAD

- Mounted on the base.
- A.C. 5 kW powered motor with pulleys and gear-tooth belt.
- Infinitely variable spindle speed between 3 and 150 rpm.
- Spindle nose as DIN 55.021, AL.6 rules.

