

# Doimak

## HOBS GRINDING MACHINE : RFM



DOIMAK machine RFM serie, is a last generation grinding machine designed for machining hobs.

The main features of this model are :

- Automatic calculation of wheel profile and dressing path.
- Easy to use. Operator interface is performed by means of graphical masks.
- High accuracy.
- High production capacity.
- Electronically relief trough CNC.

### TECHNICAL DATA

Standard:

- Distance between centres: 500 mm.
- Maximum workpiece diameter: 350 mm.
- Maximum modulus: 10.
- Wheel tilting angle:  $\pm 45^\circ$ .

**ACCURACY CLASS : AAA**

### BASE

- Apply sized perlitic cast iron.

### TABLE

- Digital servomotor and ball screw.
- Glass scale.
- Max speed: 6.000 mm/min.
- Displacement guideways.

### ROTARY SLIDE

- Maximum tilting angle  $\pm 45$ .
- Manual CNC positioning.

### DRESSING SLIDE

- Digital servomotor and ball screw.
- Glass scale.
- Rolling guideways.
- Maximum speed: 3.000 mm/min.

### WHEEL HEAD SLIDE

- Digital servomotor and ball screw.
- Glass scale.
- Rolling guideways.
- Max. speed: 6.000 mm/min.

### WHEEL HEAD

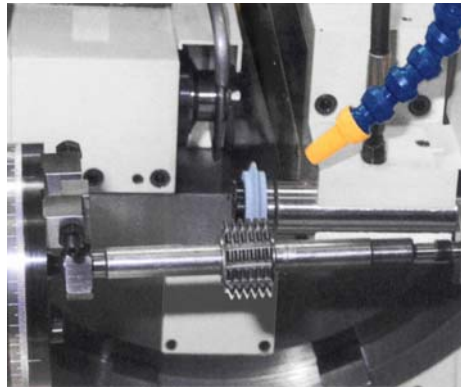
- 2'2 kw motor with belts and pulleys.
- Wheel size between 34÷100mm.

### WORKHEAD

- Direct motor.
- Spindle speeds between 1÷100 rpm.
- Encoder of high resolution.

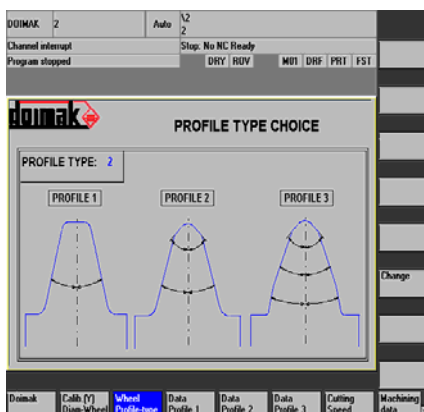
### TAILSTOCK

- Device for taper correction.



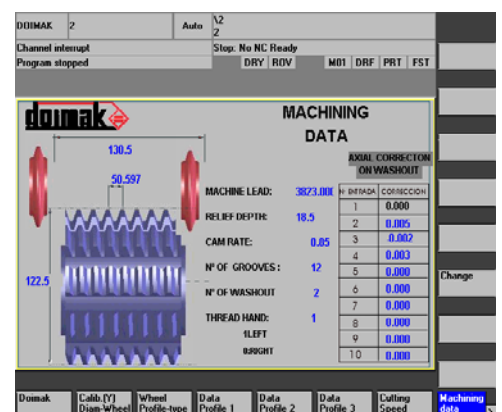
### DRESSER

- Dressing by diamond disc.
- Dressing cycle and wheel wear compensation are both CNC controlled.



### CNC CONTROL SIEMENS SINUMERIK 840 D

- Three lineal axis plus 1 rotary axis controlling.
- Automatic relief by CNC.



### SOFTWARE

- It is a set of sub-programmes corresponding with each grinding cycle, being managed all of them through the main programme developed by DOIMAK to these special purposes.

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

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