

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 ± 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

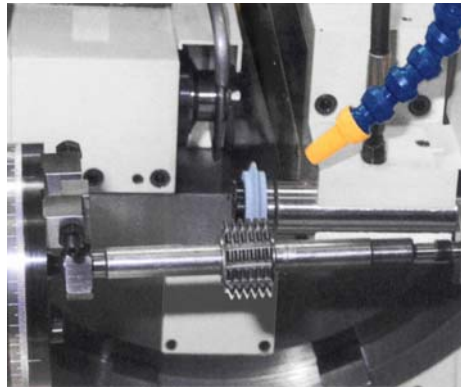
- 2'2 kw motor with belts and pulleys.
- Wheel size between 34÷100mm.

WORKHEAD

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

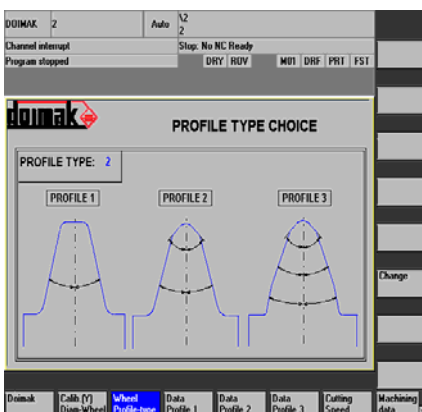
TAILSTOCK

- Device for taper correction.



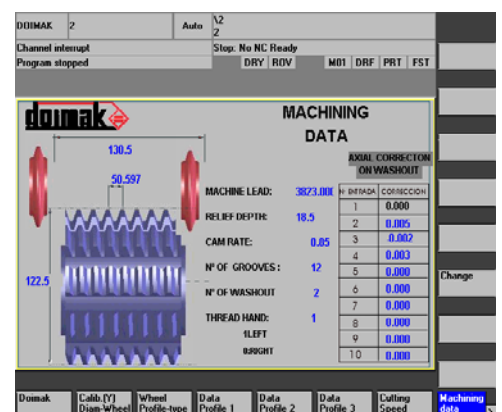
DRESSER

- 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.