

Doimak

WORM GEAR GRINDING MACHINE : RER-W



DOIMAK machine, RER-W serie, is a last generation grinding machine designed for grinding worm gears. The main features of this model, are :

- Tilting of wheel head commanded by the CNC.
- Range of wheel-head tilting angle until $\pm 45^\circ$.
- Automatic calculation of wheel profile and dressing path.
- Easy to use. Operator interface is performed by means of graphical masks.

These novelties give great flexibility to the machine, which joined with its accuracy and production capacity, allow the grinding of any type of worm gears:

- Worm gears of any profile (ZK, ZN, ZE and ZA), and multiple starts.
- Worm gears of variable lead and constant diameter.
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TECHNICAL DATA

STANDARD

- Distance between centres: 500-1.000 mm.
- Maximum diameter: 399 mm.
- Pitch: 0'5-100 mm.
- Wheel tilting angle: $\pm 45^\circ$.

OPTIONAL

- Distance between centres: 2.000 mm.
- Maximum diameter: 399 mm.
- Pitch: 0'5-100 mm.
- Wheel tilting angle: $\pm 50^\circ$.

Accuracy Class: AAA

BASE

- Amply sized perlitic cast iron .

TABLE

- Digital servomotor and ball screw.
- Linear glass scale.
- Max speed: 6.000 mm/min.

WORK HEAD

- Direct motor.
- Spindle speeds between: 0'01÷270 rpm.
- Encoder of high resolution .

TAILSTOCK

- Device for taper correction.

WHEEL HEAD SLIDE

- Servo motor and ball screw.
- Glass scale.
- Turcite slideways.
- Max. speed 3.000 mm/min.

ROTARY WHEEL HEAD

- Maximum tilting $\pm 45^\circ$.
- High precision encoder.
- Automatic (CNC)positioning.

WHEEL HEAD

- 25 kw A.C. powered motor.
- Spindle mounted on angular bearings.
- Maximum speed 3.500 rpm.

DRESSING SLIDE FEEDING MOVEMENT

- Maximum speed 2.000 mm/min.
- Encoder.

DRESSING SLIDE TRANSVERSAL MOVEMENT

- Max speed 2.000 mm/min.
- Encoder.

DRESSER

- Dressing by profiled diamond roll or diamond disc.
- Possibility to dress corrected profiles.
- Dressing cycle and wheel wear compensation are both CNC controlled.

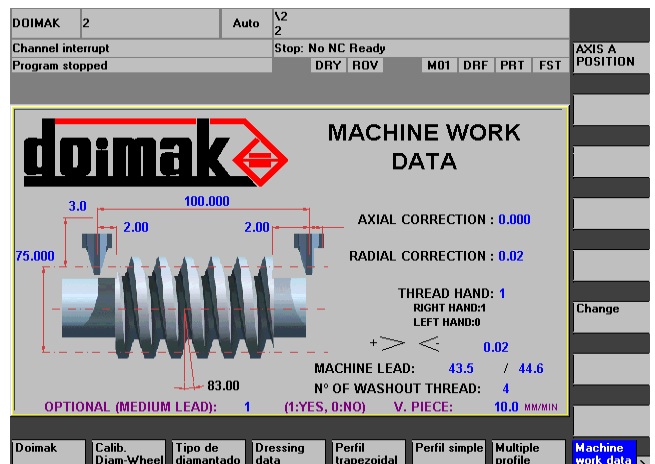


CNC CONTROL SIEMENS SINUMERIK 840 D

- Four lineal axis plus 2 rotary axis controlling.

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.



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