

# Doimak

## GRINDING MACHINE FOR NUTS OF BALL SCREWS : RIR+RE



DOIMAK machine, RIR+RE Series, has been specifically designed for the grinding of ball screw nuts. It allows in one clamping the internal grinding of the nut thread, and the grinding of the external diameter and faces. It includes an own developed software for the automatic wheel profiling with compensated profile, doing possible the grinding of large pitch nuts.

Operator interface is performed by means of graphical masks, and then it is only required to follow the shown instructions and to complete the data corresponding to the piece. The machine joints together a high flexibility and a high production capability, in a very user-friendly environment for the operator.

Possibility of different threads profiles in function of the customer's requirements: Metric, Whitworth, Trapezoidal, Sellers...

### TECHNICAL DATA

	<u>STANDARD</u>	<u>FOR BIG NUTS</u>
• Maximum diameter of the piece:	250 mm	500 mm
• Maximum diameter of the Thread:	200 mm	450 mm
• Maximum length of Thread:	260 mm	600 mm
• Maximum helix angle:	$\pm 20^\circ$	$\pm 20^\circ$

**Accuracy Class: ISO-1**



### BASE

- Amply sized perlitic cast iron.

### TABLE

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

### WORK HEAD

- Spindle driven by digital direct motor.
- Encoder of high resolution.

### Outside diameters and faces

### GRINDING CYCLES

### Internal threads

### SLIDE "X1"

- Digital servo motor and ball screw.
- Glass scale.
- Roll guideways.
- Max. speed: 6.000 mm/min.

### WHEEL HEAD FOR O.D. GRINDING

- 60° angle tilted with centre axis.
- Wheel dressing by a diamond blade mounted on the rear of the work head.

### WHEEL DRESSING

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

### ROTARY BASE

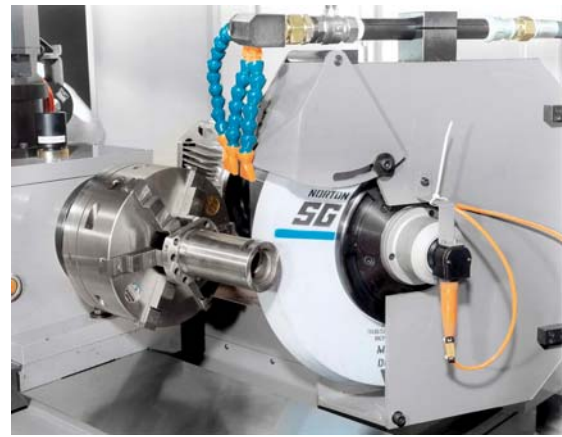
- Maximum tilting on both sides: 20°.

### WHEEL HEAD SLIDE

- Digital, servomotor and ball screw.
- Glass scale.
- Roll guideways.
- Max. Stroke speed: 6.000 mm/min.
- High frequency spindle (30.000 rpm).

### DRESSING SLIDE "Y"

- Ball screw and digital servomotor.
- Glass scale.
- Speed : 3.000 mm/min.
- Roll guideways.



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

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