

Thread Rolling Die / Tap / Gauge / API Profile Grinding Machine



Doimak RER 500 SL Profile Grinding Machine

Miscellaneous

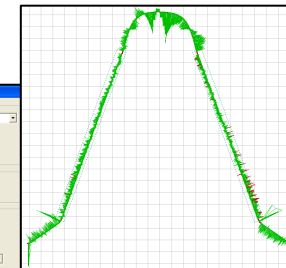
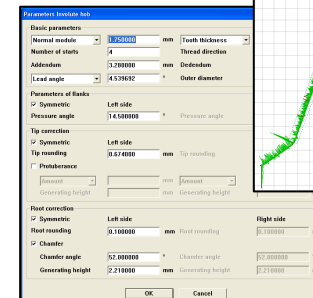
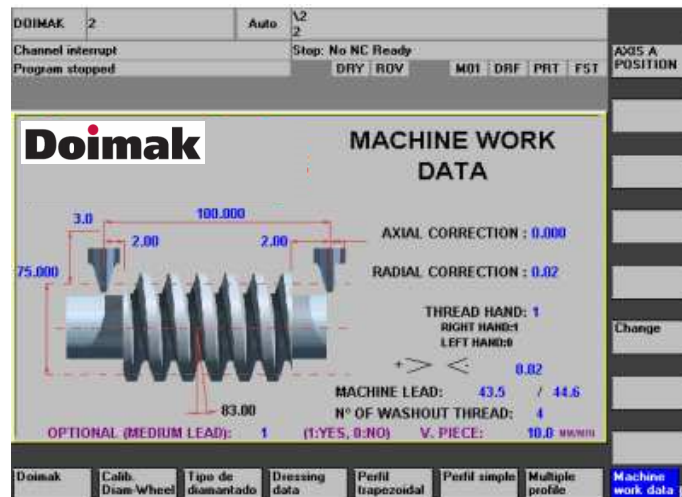
- Software for *.dxf profile importing.
- Standard parametric profile programming.
- High dynamic wheelhead relieving by means of linear motor technology.
- Built-in torque motors in wheelhead and workhead.
- Optical high precision linear scales.
- High speed for CBN grinding.
- Probing sensor for part pre-setting and basic geometrical verification: pitch, diameter, cylindricity.
- Option: auto loader [robot or gantry type].

Customized grinding technology

Profile contouring of wide range of gauges, thread rolling dies and taps thanks to the flexible programming platform.

Single or multiple profiles can be generated on the wheel for optimizing grinding cycle times. Machine can be adapted to the custom type profiles by using a contour profile dresser.

Standard profiles can be easily formed by use of plunging dresser rolls.



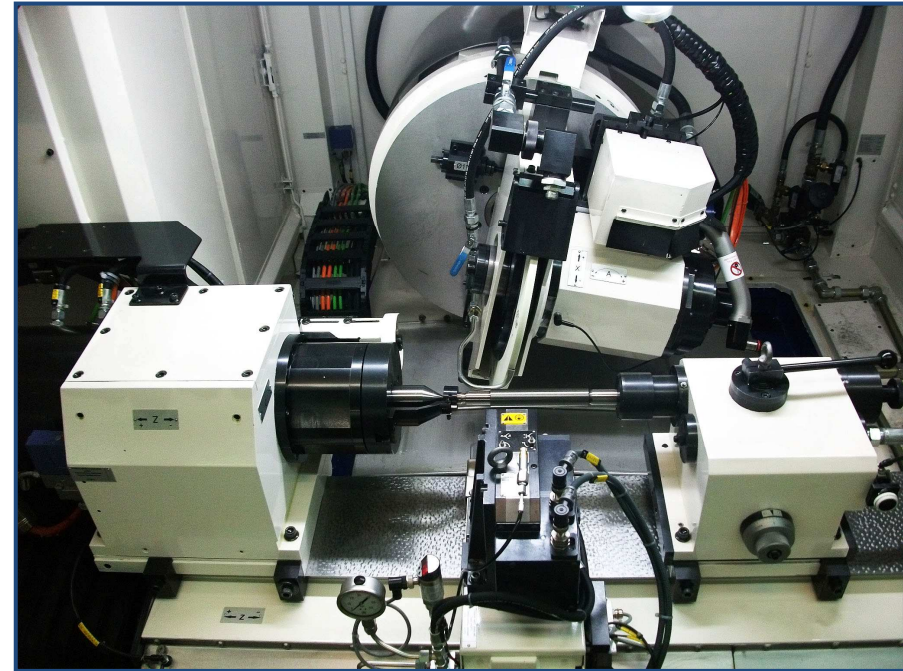
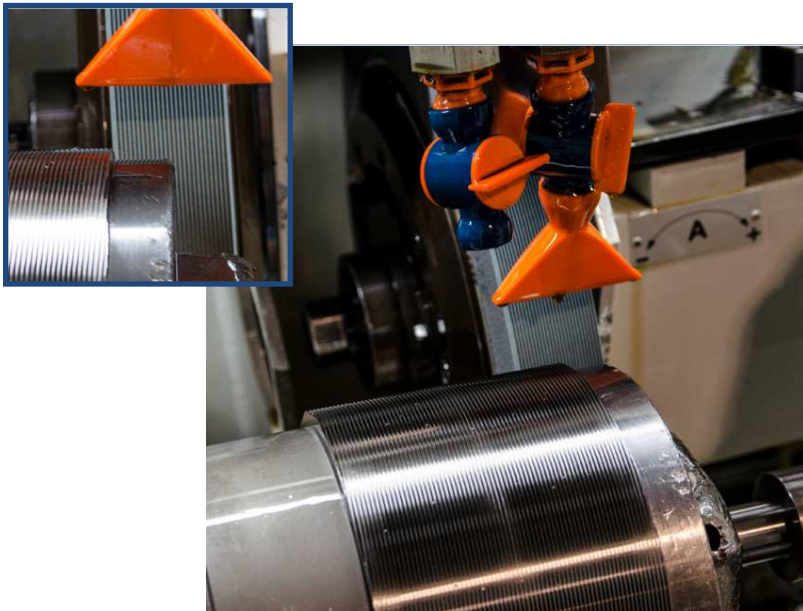
Technical data

Main dimensions:

Length between centers	500 mm-1.000 mm
Height of centers	150 - 200 mm
Part max. diameter	350 mm
Lead angle	-90° to +45°
Part max. weight	100 kg
Machine dimensions	L: 2400/3400 W: 1950 H: 2000
Machine Total weight	5.000 kg – 8.000 kg

Transversal (X) slide:

Maximum travel	350 mm-650 mm
Maximum speed	6.000 mm/min – 20.000 mm/min
Linear scale resolution	0,0001 mm



Wheel-head specification:

Grinding wheel diameter	350mm / 500 mm
Grinding wheel width	10 to 60 mm
Motor power	11 / 24 kW
Max. speed	8.000 / 5.000 rpm
Motor type	Built-in synchronous type
Max. Peripheral speed	120 m/s