

## Extruder shaft – Barrel screw grinding machines



Doimak RER machine: Thread grinding of the extruder shaft / barrel screw.  
Doimak RCN machine: OD grinding of the extruder shaft / barrel screw.

## Miscellaneous

- Software for \*.dxf profile importing.
- Standard parametrical profile programming.
- Built-in motors in wheelhead and workhead.
- Optical high precision linear scales.
- High speed for CBN grinding.
- Hydraulic and CNC steady rests.



## Customized grinding technology

Machine special **programming** is developed for the characteristics of different operations of the extruder shaft: variable in-feed programming, segmental thread angle variation, segmented pitch/lead grinding, continuous (no gap) grinding of different segments, to achieve harmonic shaft finishing. Barrier thread segmental grinding. Fast feed speed for blank gap areas.



## Technical data

### Main dimensions:

Length between centers	500 mm-6,000 mm
Weight between centers	500 kg – 2,500 kg
Swing over table	200mm – 350 mm
Machine dimensions	3465x2359x2005 / 10250x3075x2430
Machine Total weight	6,500 kg – 55,000 kg

### Transversal slide X:

Maximum travel	350 mm-650 mm
Maximum travel speed	6,000 mm/min – 20,000 mm/min
Linear scale resolution	0.0001 mm

### Longitudinal slide Z:

Maximum travel	550 mm-8,000 mm
Maximum travel speed	6,000 mm/min – 14,000 mm/min
Linear scale resolution	0.0001 mm

### Wheelhead OD grinder RCN:

Cylindrical grinding wheel diameter	750mm (950 mm)
Cylindrical grinding wheel width	80 mm – 120 mm (250mm)
Max. Peripheral speed	60 m/s – 130 m/s
Main motor power	37 kW (54 kW)

### Wheelhead Screw grinder RER:

Screw grinding wheel diameter	500mm
Screw grinding wheel width	20 mm – 60 mm
Main motor power	24- 37 kW
Max. Peripheral speed	120 m/s
Max. Tilting angle	+ - 45°

