





RER series

DOIMAK External Thread Grinding Machines



The Leading European Builder of High Precision Thread Grinding Machines

Contact us



Solutions Quality Accuracy

Customized Grinding Technology

Doimak has focused the main efforts on developing solutions for thread grinding technology. Actually Doimak's core value is being the wide "know how" acquired in the threading process.

Doimak designs and manufactures an wide range of External / Internal thread grinders with the most innovative technologies.

Currently, we offer the latest technology for grinding ballscrews, roller screws, automotive steering, worm gears, screw pumps, extruder shaft, medical screws, feedscrews, complex geometries, high helix and multiple leads.

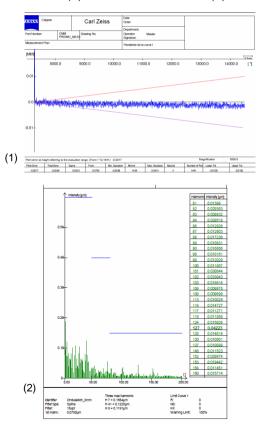
Quality

The RER series belongs to the latest generation of CNC grinding machines for external threads, with next common keypoints:

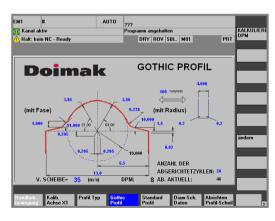
- Thermally stabilized castings.
- Motions by means of hydrostatic or linear guides.
- Direct driven technology.
- Integrated dressing solutions including standard and complex profile shape calculations.
- Friendly parametric programming interface.

Accuracy

Rigid design of spindle and slides combined with hydrostatic or linear technology offer outstanding results on critical parameters as Waviness (1) and Pitch fluctuation (2).











Technologies

Wide variety of design criteria depending on:

Slide architecture depending on part length

• Moving table within L<=3000 mm

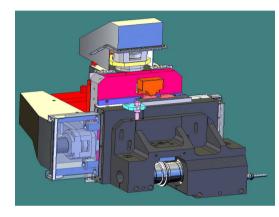


• Moving-head cross slide configuration. L > 3000 mm RER-SP Model



Type of dressing device

• 2 Linear axis dressing unit in the upper part of the wheelhead (X1/Z1)



• Mounted on the workhead (X&Z interpolation)

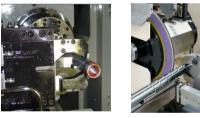


Type of steady rests

Manual 3 Point steady rests



• Self centering high precision hydraulic rest



• 2 Axis CNC Steady rests





Solutions Quality Accuracy

Type of wheel

• Corundum wheels

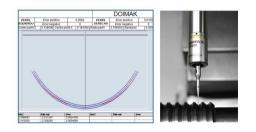


CBN Wheels



Integrated measuring devices

• Touch device for various probing tasks



• In-process measuring system



Miscellaneous

• Oil filtering systems



• Auto-loading solutions







MACHINE FAMILIES

RER 500 SL -Light Series-



RER 1000 / 1500 / 2000 / 3000



RER SP 4000 / 5000 / 6000



TECHNICAL DATA

	RER 500 SL	RER 1000 / 2000 / 3000	RER SP 4000 / 5000 / 6000
Length between centers	750 mm	11003100 mm	4100 mm 6200 mm
Height of centers	150 mm	200 mm	270 mm
Part diameter	300 mm	350 mm	390 mm
Grinding spindle	11 kW	24 to 54 KW	24 to 54 kW
Wheel diameter	350 mm	500 mm	500 mm
Helix axis	-90 to +50°	±50 °	±50 °
Part max. weight	100 kg	150 … 500* kg	1000*…1500* Kg
Machine weight	5500 kg	9000 / 12000 / 16000 kg	21000 / 23500 / 26000 kg

*Weight supported with steady rests