REER series

DOIMAK External Thread Grinding Machines
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 a 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\leq 3000 \text{ mm}
- Moving-head cross slide configuration.
  L > 3000 \text{ 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
**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

<table>
<thead>
<tr>
<th></th>
<th>RER 500 SL</th>
<th>RER 1000 / 2000 / 3000</th>
<th>RER SP 4000 / 5000 / 6000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length between centers</td>
<td>750 mm</td>
<td>1100...3100 mm</td>
<td>4100 mm ... 6200 mm</td>
</tr>
<tr>
<td>Height of centers</td>
<td>150 mm</td>
<td>200 mm</td>
<td>270 mm</td>
</tr>
<tr>
<td>Part diameter</td>
<td>300 mm</td>
<td>350 mm</td>
<td>390 mm</td>
</tr>
<tr>
<td>Grinding spindle</td>
<td>11 kW</td>
<td>24 to 54 kW</td>
<td>24 to 54 kW</td>
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<tr>
<td>Wheel diameter</td>
<td>350 mm</td>
<td>500 mm</td>
<td>500 mm</td>
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<tr>
<td>Helix axis</td>
<td>-90 to +50°</td>
<td>±50 °</td>
<td>±50 °</td>
</tr>
<tr>
<td>Part max. weight</td>
<td>100 kg</td>
<td>150 ... 500* kg</td>
<td>1000*...1500* Kg</td>
</tr>
<tr>
<td>Machine weight</td>
<td>5500 kg</td>
<td>9000 / 12000 / 16000 kg</td>
<td>21000 / 23500 / 26000 kg</td>
</tr>
</tbody>
</table>

*Weight supported with steady rests

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