RS20 Rotating System
Reliable quality assurance for your semi-finished products

- for wire, bars, tubes
- smart & fast diameter change
- rugged, compact, affordable
Reliable semi-finished product testing

System configuration

![Diagram showing control box, rotating system, and eddy current tester]

Production speed vs. defect length

<table>
<thead>
<tr>
<th>Order no.</th>
<th>RPM</th>
<th># probes / track width (mm)</th>
<th>complete surface testing</th>
<th>non-complete surface testing</th>
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<tr>
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<td>min. defect length (mm)</td>
<td>max. production speed (m/s)</td>
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<td>LAB 6715ND</td>
<td>12000</td>
<td>2/3,6</td>
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Production speed (m/s) = RPM x number of probes x (min. defect length (mm) – track width (mm))/60000

Technical data

- **Application**
  - Offline, inline, continuous
  - Any application in which longitudinal surface flaws are prevalent
  - Wire, bar, pipe
  - All metals
  - Size range: Ø 2–20 mm (0.079”–0.787”); complete diameter change within max. 5 minutes
  - Temperature of inspected material: 0–70 °C (32–160 °F)

- **Production line**
  - Continuous production with/without cut-off (e.g. drawing line)
  - Testing of cut lengths (inline and offline)

- **Defect resolution**
  - Min. defect length: depends on production speed and probe (see table above)
  - Min. def. depth: 0.05mm (0.002”) dep. on surface conditions

- **Probe disks**
  - 2 differential probes & 1 lift-off probe per disk
  - Every probe diameter available

- **Guidance system**
  - Internal, with bushings and carbide inserts
  - External guidance system recommended

- **Spindle bearings**
  - Hybrid bearings (ATCoat coated) with a long service life

- **Revolutions per minute**
  - 12000 rpm

- **Motor and power supply**
  - Three-phase asynchronous drive
  - 3-phase, 400V, 50/60Hz; max. power rating: 370VA

- **Eddy current instrument**
  - EDDYCHEK®S

- **Weights**
  - Rotating system 40 kg (88 lb)
  - Switch cabinet 17.4 kg (38.3 lb)

- **Dimensions**
  - see below

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PRÜFTECHNIK NDT GmbH
Am Lenzienleck 21
85737 Ismaning
Germany
www.ndt.pruftechnik.com
Tel.: +49 89 99616-360
Fax: +49 89 967990
E-Mail: ndt-sales@pruftechnik.com
A member of the PRÜFTECHNIK group