Rotating System RS140
Detecting longitudinal defects at large diameters
Reliable semi-finished product testing

Technical data RS140

Testing material
- Tubing, pipe, bar, wire
- Ferrous, nonferrous and austenitic metals
- Size range: Ø 10–140 mm (3/8–5 1/2")
- Temperature of inspected material: -20°C – 70°C

Weights
- RS140 approx. 650 kg (1400 lb); control cabinet approx. 200 kg (440 lb)

Eddy current instrument
- EDDYCHEK®610, EDDYCHEK®605, EDDYCHEK®605 compact

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

Defect resolution
- Min. defect length see table – depends on production speed and probe – see table below
- Min. defect depth: 0.05 mm (0.0012") – depends on surface conditions

Probes
- 8/4 differential channels on two test probes
- Lift-off compensation; max. lift-off: 2 mm
- Probe type dependent on throughput and material

Guidance system/Centering
- Centering triples at entry and exit door
- Internal roller guide for diameters < 25 mm

Rotations per minute
- max. 1800RPM

Motor and power supply
- 380–460V, 50/60Hz, 2.5 kVA.
- Different voltages possible with isolating transformer

Demagnetization
- Recommended for material with >10 A/cm

PLC
- Signal output for system control automatization available

Production speed and minimum defect length

<table>
<thead>
<tr>
<th></th>
<th>Complete ...</th>
<th>... partial surface testing</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>minimum defect length in mm</td>
<td>max. production speed in m/s</td>
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<tr>
<td>RPM</td>
<td>14,5</td>
<td>20</td>
</tr>
<tr>
<td>1200</td>
<td>1,68</td>
<td>1,80</td>
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<tr>
<td>1800</td>
<td>2,53</td>
<td>2,70</td>
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<tr>
<td>RPM</td>
<td>14,5</td>
<td>20</td>
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<tr>
<td>1200</td>
<td>0,84</td>
<td>0,95</td>
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<tr>
<td>1800</td>
<td>1,26</td>
<td>1,43</td>
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