

Rotating System RS140

Detecting longitudinal defects at large diameters



• Wire

• Bar

• Tube

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. 1800 RPM

Motor and power supply

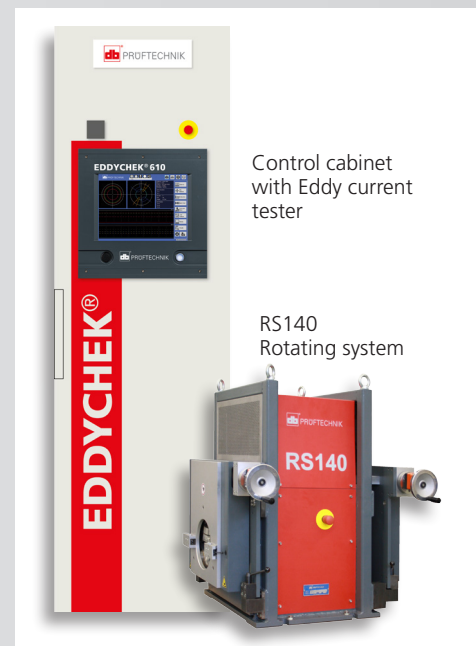
- 380–460 V, 50/60 Hz, 2.5 kVA.
- Different voltages possible with isolating transformer

Demagnetization

- Recommended for material with >10 A/cm

PLC

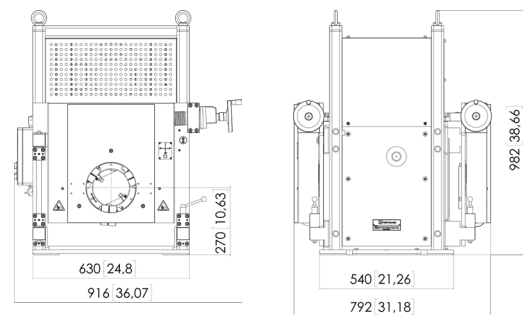
- Signal output for system control automatization available



Control cabinet with Eddy current tester

RS140 Rotating system

Dimensions in mm (in)



Production speed and minimum defect length

		Complete partial surface testing			
RS140, 8 channels 4 T-probes per arm* 4 mm track width LAB 6843ND	RPM	minimum defect length in mm				
		14,5	20	30	40	50
	max. production speed in m/s					
	1200	1,68	1,80	2,00	2,19	2,39
1800	2,53	2,70	3,00	3,27	3,59	
RS140, 4 channels 2 T-probes per arm 4 mm track width	RPM	minimum defect length in mm				
		14,5	20	30	40	50
	max. production speed in m/s					
	1200	0,84	0,95	1,15	1,35	1,55
1800	1,26	1,43	1,73	2,03	2,33	

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