

RS20 Rotating System

Reliable quality assurance for your semi-finished products



- for wire, bars, tubes

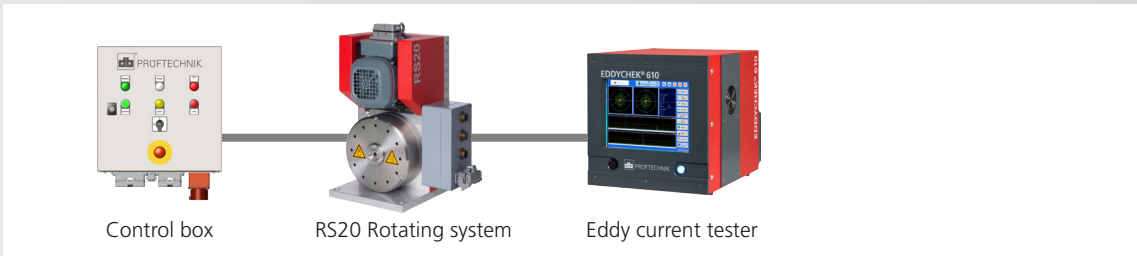
NEW

- smart & fast diameter change

- rugged, compact, affordable

Reliable semi-finished product testing

System configuration



Production speed vs. defect length

Order no.	RPM	# probes / track width (mm)	complete surface testing	non-complete surface testing						
				min. defect length (mm)						
LAB 6715ND	12 000	2/3,6	7,2	8	9	10	12	15	20	30
				max. production speed (m/s)						
				1,44	1,76	2,16	2,56	3,36	4,56	6,56
LAB 6717ND	12 000	2/1,8	3,6	min. defect length (mm)						
				5	8	9	10	12	15	20
				max. production speed (m/s)						
			0,72	1,28	2,48	2,88	3,25	4,08	5,28	7,28

Production speed (m/s) = RPM x number of probes x (min. defect length (mm) – track width (mm))/60 000

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: 0.05 mm (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

- ▶ 12 000 rpm

Motor and power supply

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

Eddy current instrument

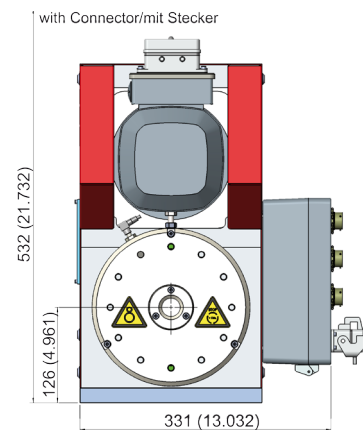
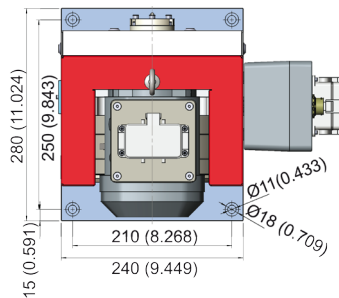
- ▶ EDDYCHEK® 5

Weights

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

Dimensions

- ▶ see below



© Copyright 2016 by PRÜFTECHNIK AG. ISO 9001:2008 certified. EDDYCHEK® is a registered trademark of PRÜFTECHNIK Dieter Busch AG. No copying or reproduction of this information, in any form whatsoever, may be undertaken without express written permission of PRÜFTECHNIK AG. The information contained in this leaflet is subject to change without further notice due to the PRÜFTECHNIK policy of continuous product development. PRÜFTECHNIK products are the subject of patents granted or pending throughout the world.



PRÜFTECHNIK NDT GmbH
 Am Lenzenfleck 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