

RS20 Rotating System

Reliable quality assurance for your semi-finished products



- for wire, bars, tubes

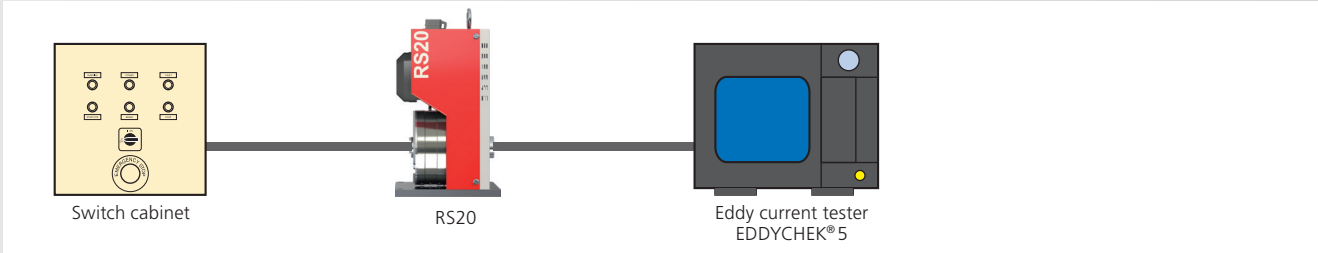
NEW

- 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	10,56
LAB 6717ND	12 000	2/1,8	min. defect length (mm)							
			3,6	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

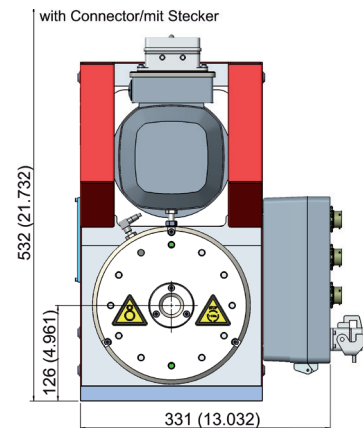
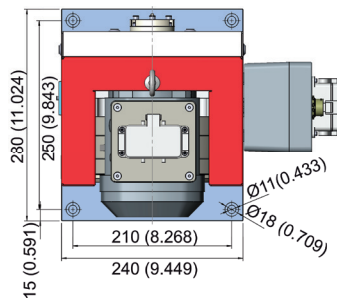
- ▶ EDDYCHEK® 5

Weights

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

Dimensions

- ▶ see below



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