

EDDY CURRENT INSPECTION BY ROTATING HEAD

Version TRVC

1 THE EDDY CURRENT ROTATING HEAD TRVC

CMS developed a solution that uses Eddy Current for the inspection of small diameter bars, wires, tubes and small solids of revolution parts such as piston pin, axes or shafts.

6 MAIN ADVANTAGES

- Compact system
- 2 inspection channels with gap correction
- Small length of the guide sleeves inside the rotating head (Limit potential scratches on the controlled product)
- Very high inspection speed
- Very fast adjusting time
- Inspection results are displayed directly on ZetaMaster instrument and an inspection report is created
- Creation of comprehensive inspection
- In accordance with international standards such as ASTM, API, BS, AF, DIN, EN, SEP and others

2 USED FOR DEFECTS DETECTION

Detection of surface or sub-surface longitudinal defects at high speeds

3 PRODUCTS RANGE

- Several versions of the system are available : **RotoETscan 15, RotoETscan 25, RotoETscan 35 and RotoETscan 65**

4 STANDARD EQUIPMENT

- Adjustable plate in diameter with only 2 probes

5 ASSOCIATED SYSTEMS

- **ZetaMaster** is available in different versions : standard (with touchscreen) or rackable



Products Range

	TRVC
Reference	5100VC
Ø range (mm)	0.8 to 10 mm
Ø range (inch)	1/32 to 3/8
Rotational speed standard version (rpm)	9000 - Option: Up to 18000

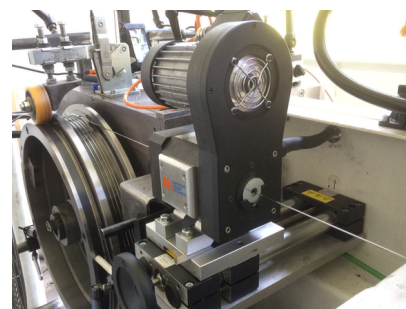
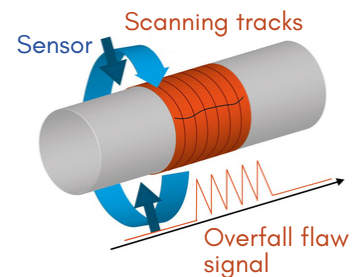


	RotoETscan TRVC 15	RotoETscan TRVC 25	RotoETscan TRVC 35	RotoETscan TRVC 65
a	230 mm	260 mm	300 mm	320 mm
b	80 mm	100 mm	130 mm	200 mm
c	270 mm	340 mm	410 mm	560 mm
d	140 mm	200 mm	250 mm	380 mm
Rotating speed	10 000 rpm	6 000 rpm	5 000 rpm	4 000 rpm

Operating Principle

The products moves in translation through the rotating head. Two Eddy Current probes inside the head are then turning around the product to detect longitudinal defects.

The inspection is carried out with an helical pitch. The results are displayed on the instrument screen in a timebase and/or a lissajous figure.



Piston Pin



Pin



Cylinder Rod

