Automatic crack detection of bearing rings on the inner diameter with 1-channel eddydector®

Samples which are tested on the system (bore diameter 30 – 40 mm).

Crack specifications
Orientation: longitudinal
Crack depth: 0.100mm
Crack width: 0.050mm
Crack length: 3.000mm

Cycle time: 6 seconds per part (600 parts/h)
Test system with switch cabinet, operating elements, crack detection instrument and printer to print test results. The mechanical module can be seen on the right-hand side.
The bearing rings are fed on a conveyor belt to the test system, individually clamped and rotated. A probe scans the inner diameter for cracks as per specification. Good parts are returned to the conveyor belt, bad parts are forwarded to a separate, locked chute.

Test part in receptacle position.