Automatic Crack Detection of
Rollers
*using **eddydector®** (1-channel)*

Dimensions of parts : ∅ 3.65mm x 7.2mm

Material :steel, hardened and nitrified

Minimum crack :0.03mm deep

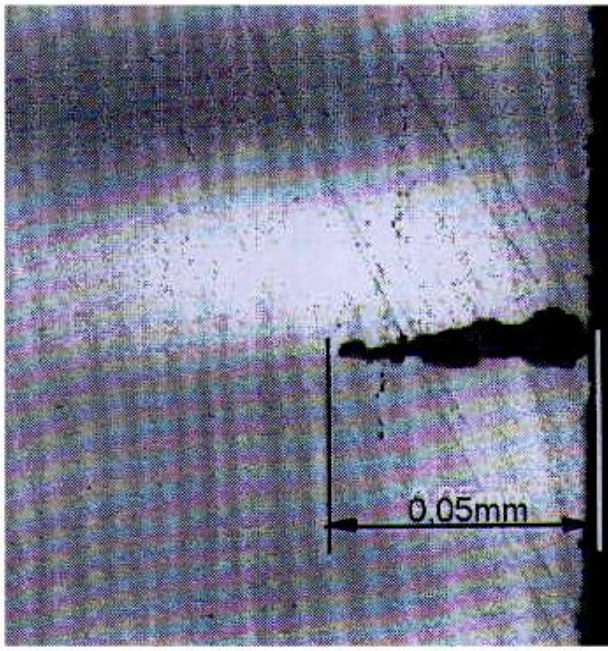
Cycle time :2.8 parts/sec

The test parts reach the crack detection station in a tube via vibration feeder. A driving wheel moves the rollers at a constant speed to the crack detection station.

Here the parts are accelerated by two driven cylinder rollers to reach a speed of approx. 900 RPM. The crack probe is capable of detecting surface cracks of a minimum crack depth of 0.03mm.

After the crack detection, the rollers are tipped into an output channel and passed on to the left or right channel of the sorting bridge, depending on the sort decision CRACK YES/NO.

*The crack detection handling system is ready for connection to ibg **eddydector®** (1 channel).*

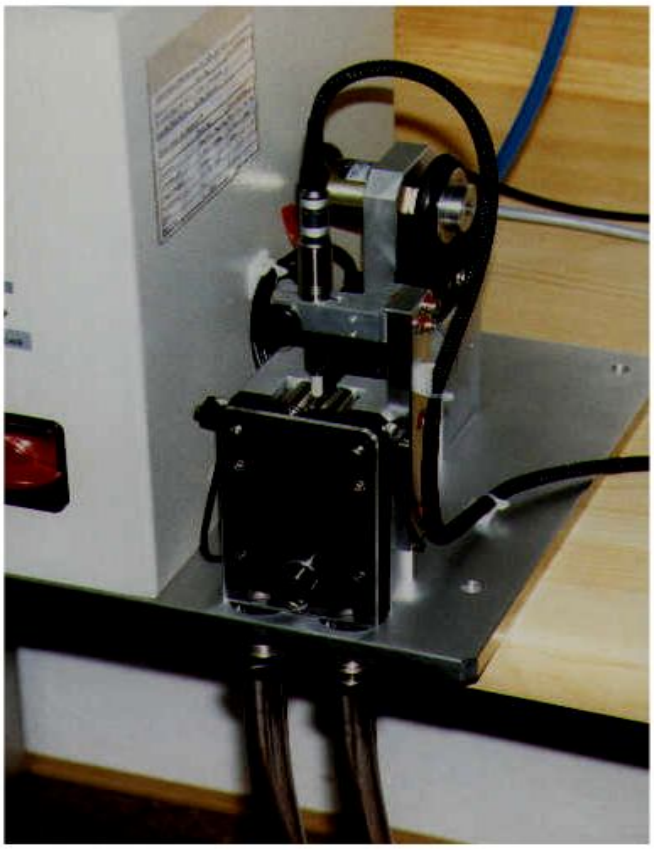


Natural crack (50µ)
760-fold scale-up

ibg NDT Systems Corporation
20793 Farmington Road,
Farmington Hills, MI 48336
Phone: 248.478.9490, Fax: 248.478.9491
http://www.ibgndt.com

View on crack detection system

- *Driving wheel*
- *Cylinder rollers*
- *Sorting flap*
- *OK/NG channels*
- *Electronic components*



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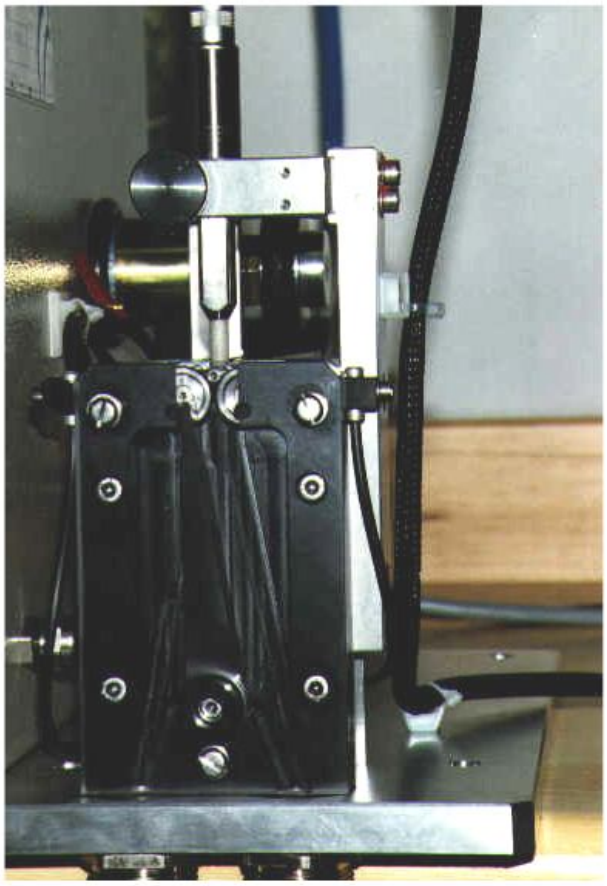
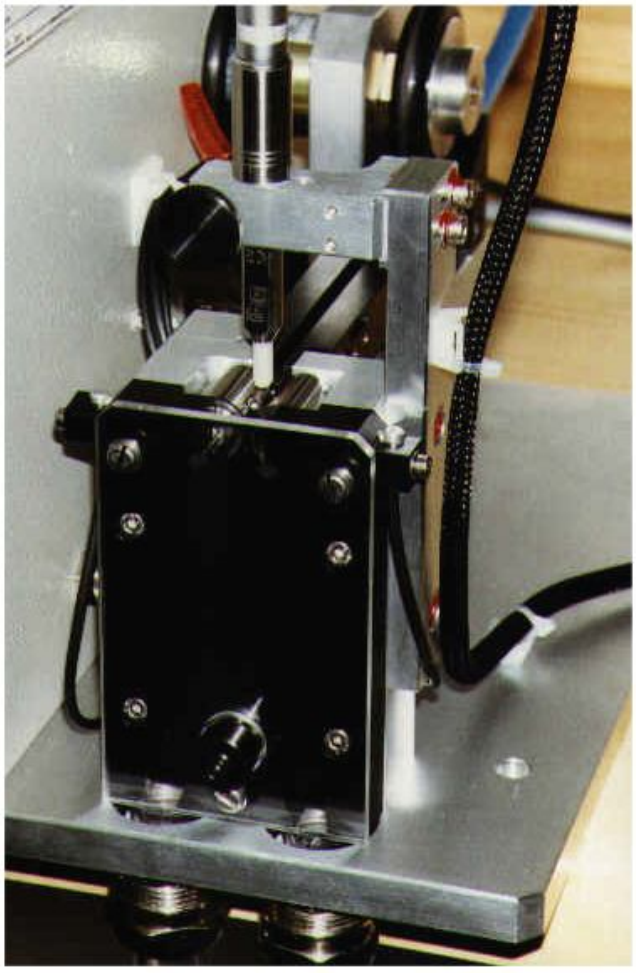


Test part on cylinder rollers, scanned by test probe

Sorting flap clearly visible



Distance of probe to surface of test part: 0.5mm

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