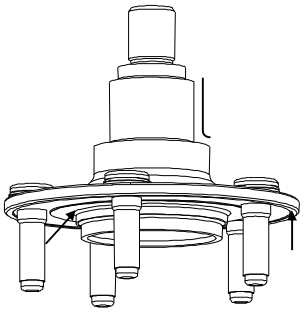
Crack detection on ***axle shafts*** *with* ***3-channel eddydector®***

- *3 different parts, mixed*
- *Cycle time 14.1 sec*
- *Pick up from conveyor belt*
- *Unload of tested OK parts onto the same conveyor belt*
- *Internal conveyor belt for NOK parts*

The test parts differ significantly in shaft area and come randomly mixed to the system.

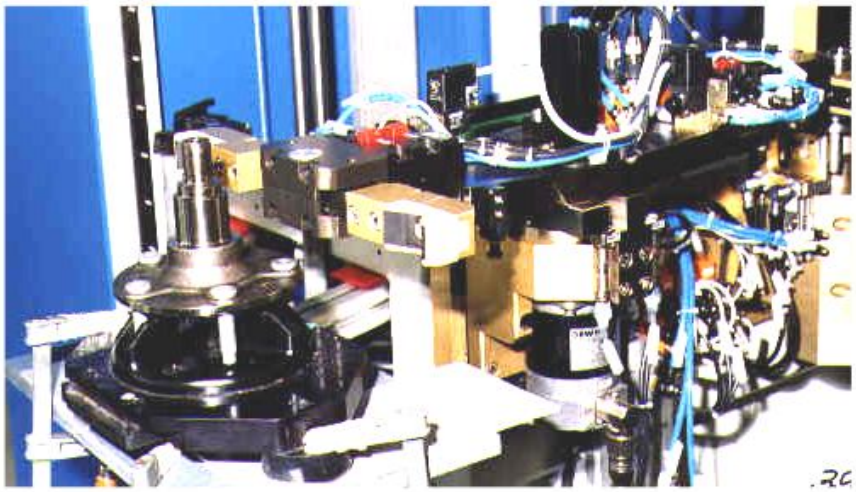


Crack detection areas of test parts:

Probe A:	*surface testing of shaft*
Probe B:	*toroidal testing of plane face*
Probe C:	*toroidal testing of radius*

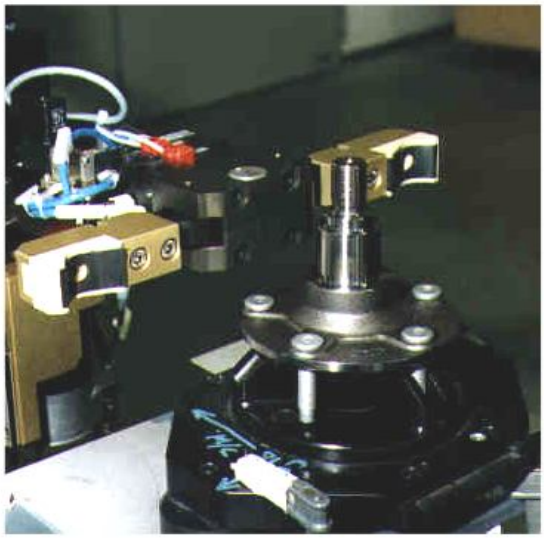
ibg NDT Systems Corporation
20793 Farmington Road,
Farmington Hills, MI 48336
Phone: 248.478.9490, Fax: 248.478.9491
http://www.ibgndt.com

System with closed and opened protective cover (guarantees free access to test station).

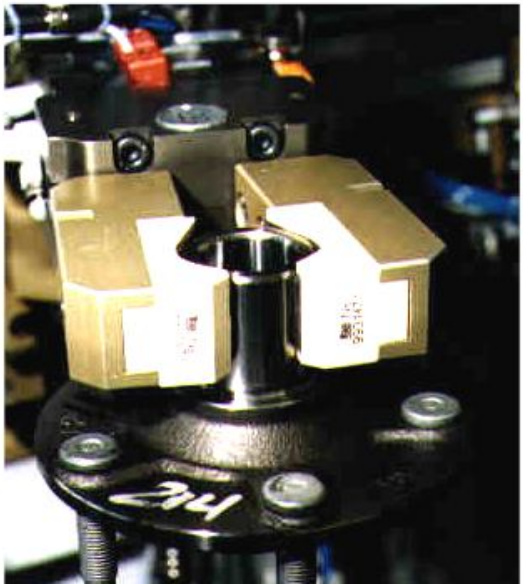


Parts are unloaded from the conveyor belt system by the griper.

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



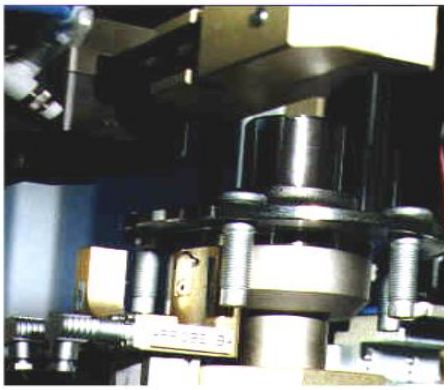
Feeding and discharge is done by a pallet system.



In-system the parts are transported by a multi-motion actuator.

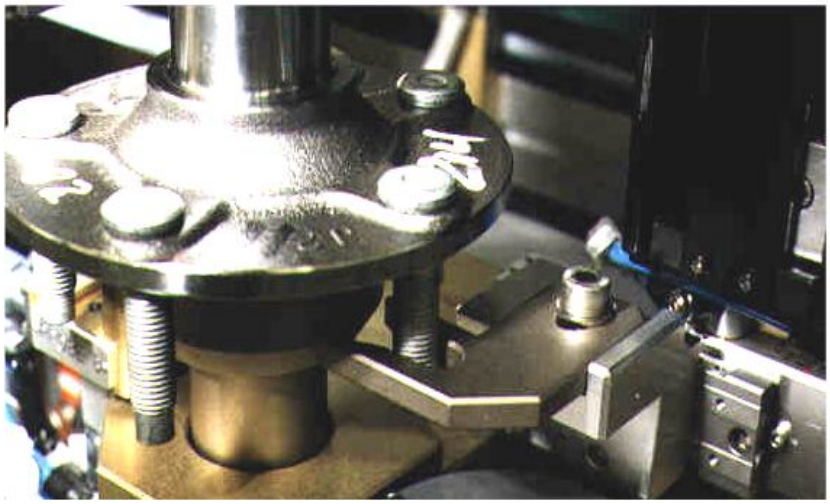
At the crack detection station the part is clamped and rotates at approx. 600 rpm.

The test probe in the spring-loaded probe-arm scans the whole cylindrical surface, including the radius.



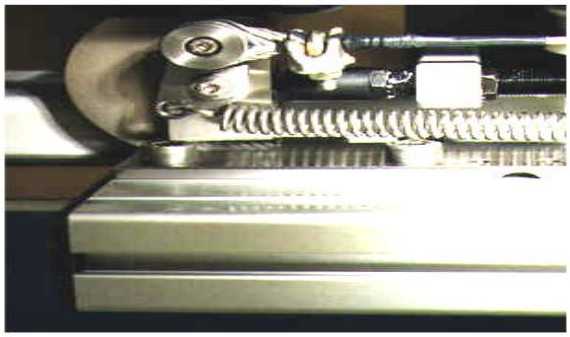
Test probes B and C toroidally scan plane face and radius for cracks.

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



After rotation the test part is aligned exactly to the correct position for handing over to the palett (dovetail at thread bolt)

NOK parts are passed on to conveyor belt.



The test instrument, the control panel with graphic user guidance and removal door for NOK parts are easyly accesible and well-arranged.

A safety package: the cam clamp safely holds the protection cover in case of a rope tear (weight counterbalance).

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