

Defectoscope

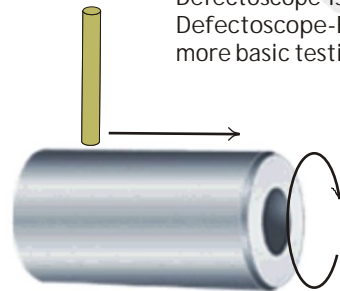
Detects Fine Surface Cracks on Finished Components



Technofour Defectoscope Test System detects surface-breaking cracks on finished roto-symmetrical components such as ball pins, gudgeon pins, piston rods, bearing races, rollers, cylinder liners, gear blanks, ammunition shells etc in production environment or at inward quality inspection.

Typically used for automobile components, the system can detect flaws as fine as 30 microns on polished surfaces. Complete automation support is provided along with several kinds of custom-built mechanisms for scanning and sorting.

Defectoscope is offered in two versions: The full-featured Defectoscope-EX and the economical Defectoscope-LX for more basic testing needs.



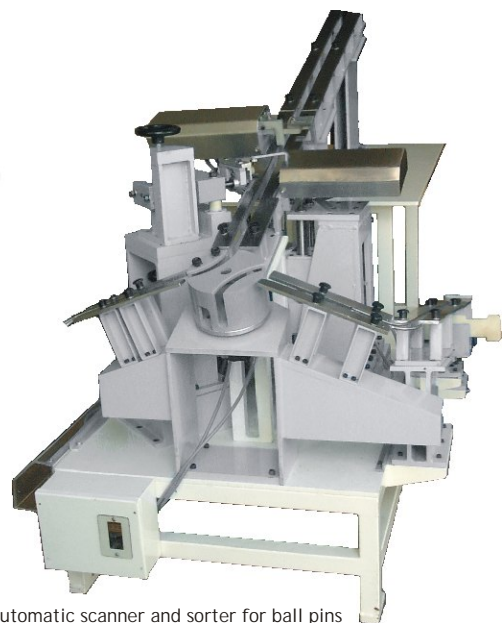
An eddy current probe is moved across as the part rotates. This results in a 100% scan of the surface with reliable inspection for defects.

Surface defect detection on roto-symmetrical components
Independent High-pass and Low-pass filters
Customized mechanisms for test automation
Four thresholds including sector gate
Three evaluation modes
No magnetization or demagnetization required
100% quality inspection
Load or save often used parameter sets
Comprehensive reports

Features unique to Defectoscope-EX:

- Can detect axial as well as circumferential* defects
- Multi-channel capability for testing complex parts
- Up to 32 probes for scanning various surfaces
- Capable of end-area inspection in OCTG pipes
- Variable test frequency
- Multiple display templates
- Ethernet connectivity with a remote computer
- E-mailed reports at scheduled intervals

* In certain configurations



Automatic scanner and sorter for ball pins



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Defectoscope -LX

Signal Gain

20 dB to 80 dB in steps of 0.5 dB

Phase

0 deg to 359 deg in steps of 1 deg

Thresholds

Upper: 10% to 100%

Lower: 10% to 100%

Third: 10% to 100%

Sector: 20° to 80°

Evaluation modes

Phase sensitive

Amplitude

Sector

Filters

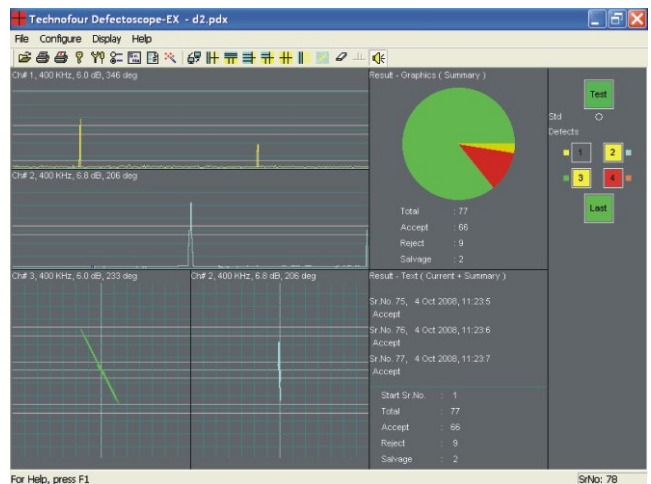
Independently adjustable

High Pass: 10 Hz to 2550 Hz

Low Pass: 20 Hz to 5100 Hz

Automation

External PLC



Defectoscope-EX has several display templates to bring up a wide variety of data such as test signals, results and statistics. Familiar Windows user interface simplifies operation.

Defectoscope -EX

(In addition to all listed above)

Frequency Range

30KHz to 3MHz

Max probes / channels

32

Max filter sets

32

Operating System

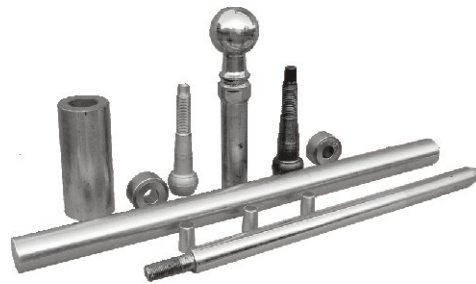
Windows Professional

Connectivity

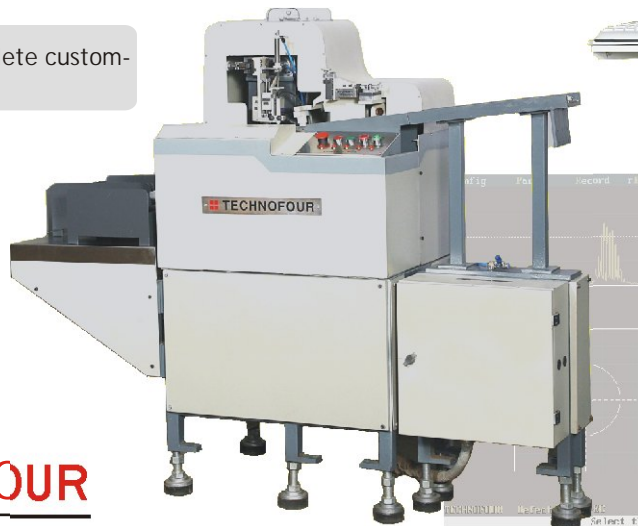
Intranet / internet over ethernet

Data storage

Hard disk, USB flash drive



Technofour can supply complete custom-built automatic test systems



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