P 3121

Ultrasonic testing instrument for non-destructive hardness depth testing of heat-treated parts



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TEMAFLUX SRL

CONTROLLO QUALITÁ COLLAUDO

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Hardness Depth Testing of Heat-treated Parts

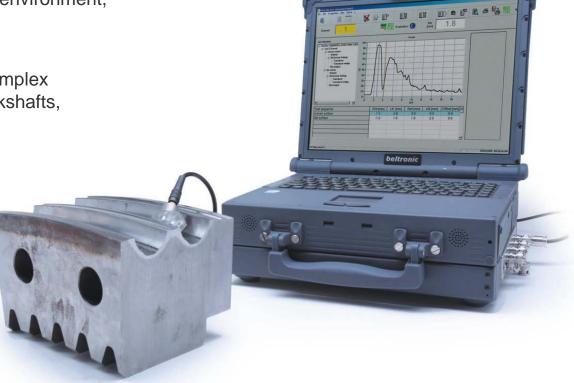
- Non-destructive testing with ultrasonic backscattering technique,
- portable testing system,

designed for tough industrial environment,

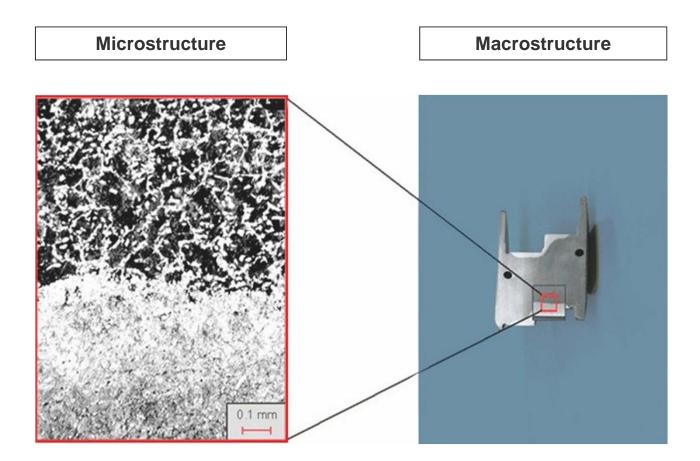
4-channel ultrasonic board,

 Also suitable for testing of complex geometries for example crankshafts, gears,...

optional automated testing.

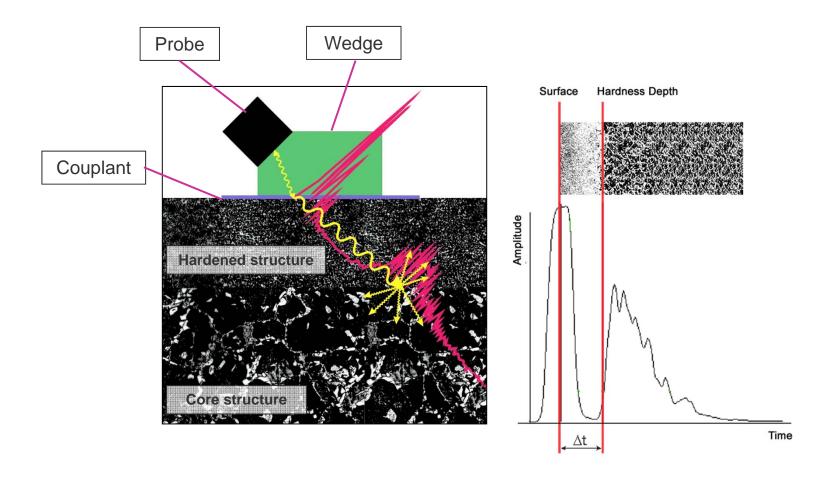








Ultrasonic Backscattering Technique







- Coupling wedge.
- Ultrasonic transducer
- RF transducer cable

Industry Laptop including:

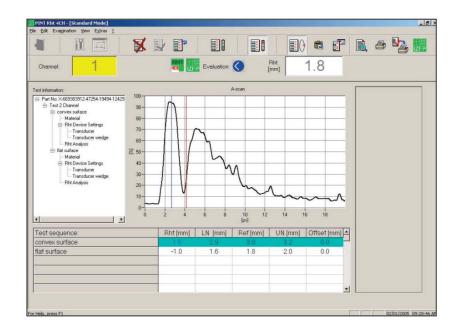
- Ultrasonic electronics (analog and digital).
- PINT Rht software.
- Up to 4 probes can be connected.
- Windows 7, XP
- DVD writer.
- Standard connectors like USB, etc.

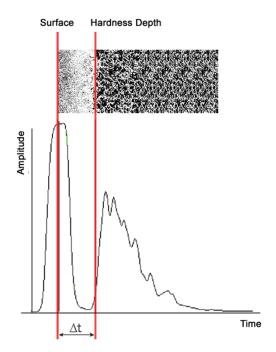
Optional

- Touch-screen
- Wireless LAN



PINT Rht Software

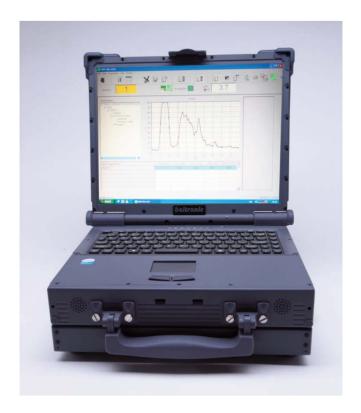




- Creation of master records and databases for components, probes, wedges, testing staff, testing settings, etc.
- Testing modes for routine-, reference-, individual-, series- and sample-testing.
- Data export.
- Online data visualization (A-Scans)
- Printing and transmitting of testing results



Industry Laptop and Hard Case



Industry Laptop (IP54, MIL-STD-810F certified)



Hard case with foam interior







Standard design: Flat, convex, concave

Custom design:Double sensors with housing



Accessories

Probes: 2 available models

20 MHz, diameters: 6 mm or 11 mm



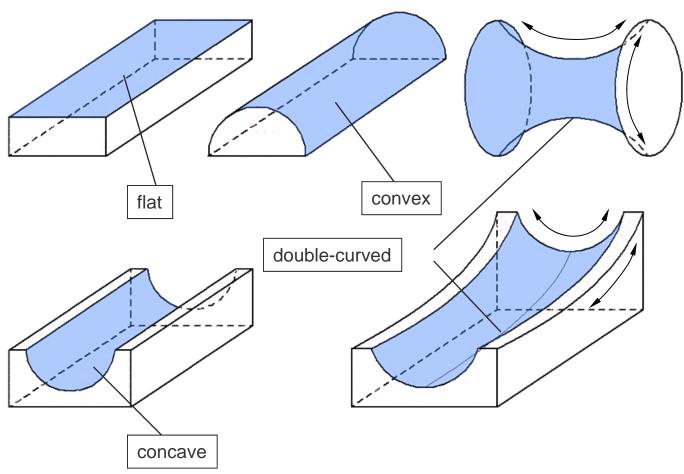
RF transducer cable



USB pedal







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Hardness depth testing of heattreated parts such as:

- large-diameter slewing rings,
- crankshafts,
- tooth systems,
- spindles,
- and many more...



Usage Example: Large-diameter Slewing Rings



Testing the **pitch surfaces of the rolling element** (flat or curved), the **tooth flanks** and **bottom lands**.

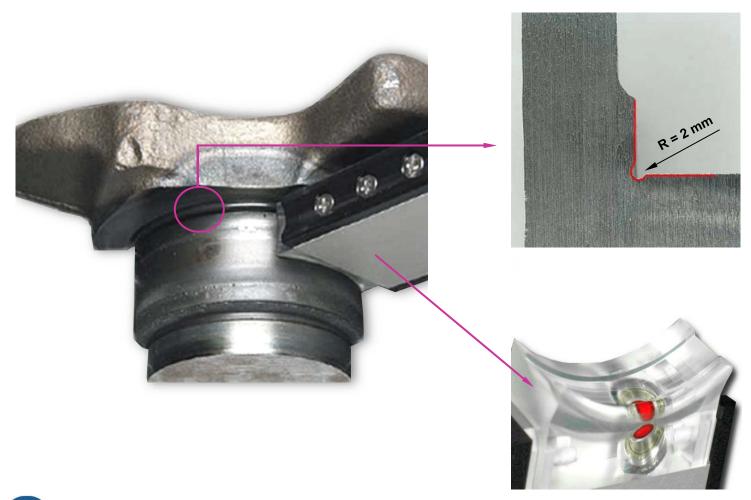


Testing Examples: Crankshafts



Testing the flange / pins, journals und fillet radii.





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Usage Examples: Testing of Tooth Systems



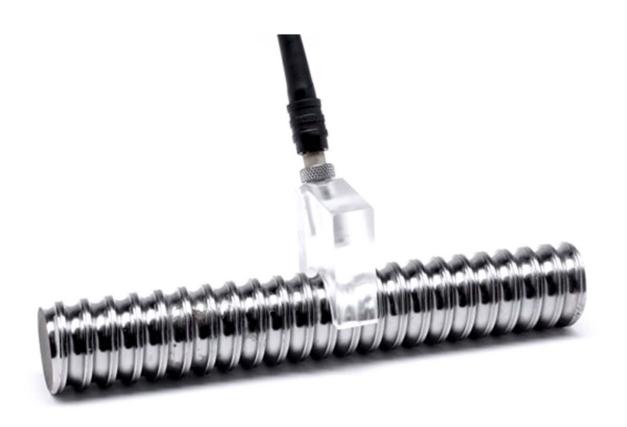




Testing of tooth systems: top and bottom lands and tooth flanks.



Usage Examples: Testing of Spindles and Threads





Usage Examples: Testing of Fillets and Bearing Surfaces





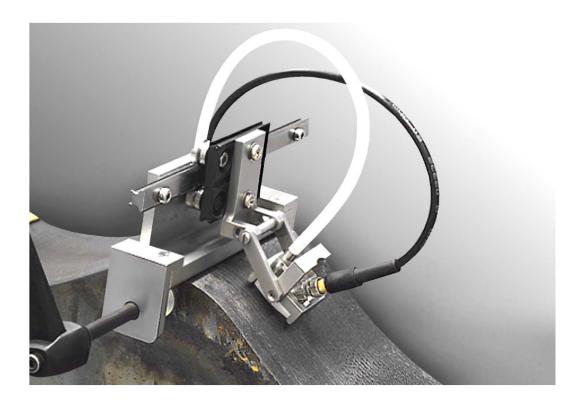
Usage Examples: Testing of Spline Shafts





Measurement on the top of splines





Sensor manipulation in case of testing **curved surfaces**.





Wedge for 2 testing points





Semi-automated testing of crankshafts

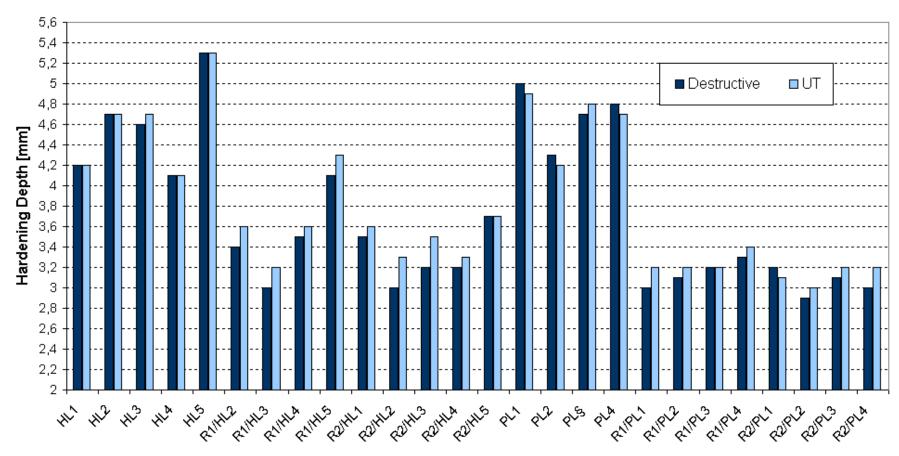






Sensor units with housing

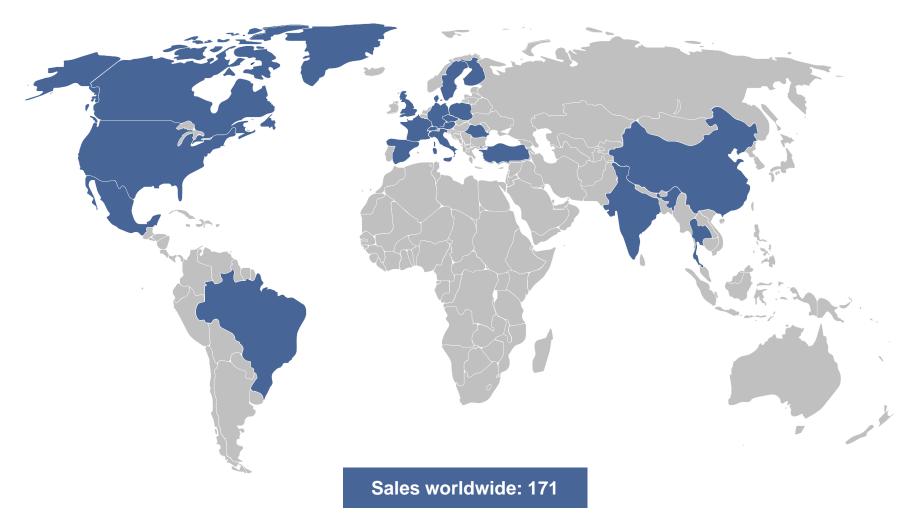




Measurement Positions on the crankshaft (main and pin journal, radius and middle of journal)



Worldwide Sales and Services





References (extract)













































































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Many thanks!

