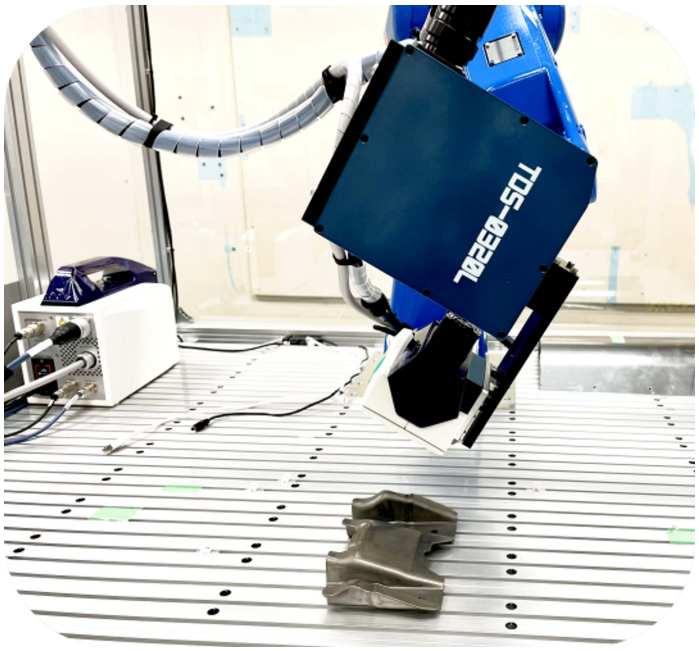
Robotic Residual Stress Mapping System With 3D Scanner

Stress mapping on curved surface
Versatile Oscillation Options



APPLICATIONS

- Stress mapping
- Hardness mapping with FWHM
- Large grain samples
- Additive Manufacturing
- Heat effects analysis on welding

FEATURES

- Nondestructive stress measurement
- Automatic mapping with 3D scan
- Versatile oscillation

For more information,
visit https://www.pulstec.net/

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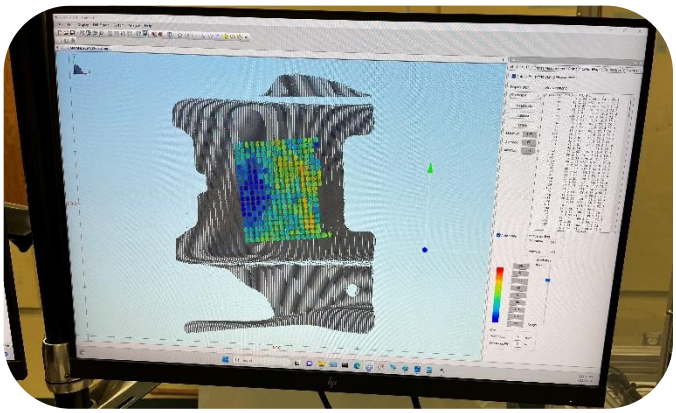
Robotic Residual Stress Mapping System With 3D Scanner

FEATURES & BENEFITS

Comprehensive Mapping:
Versatile Oscillation Options:
Automatic mapping saves your time:
Intuitive Design:
Advanced High-Sensitivity 3D Detection:
No Antihalation Spray Required:
High Accuracy & Stability:
Precision in Details:



SPECIFICATIONS

XRD stress analyzer:

μ-X360s

Cos-Alpha method for stress calculation

Cr, V, Mn, Co, Cu tube replaceable

Collimator replaceable

3D scanner:
TDS-320L
Laser 3D scanner with triangulation method

Robot:
MOTOMAN-GP8

Shielding Box/Robot Enclosure:
W=1,500, H=1,800, D=1,500mm
Maximum sample size: 400 x 400 x 400mm
Maximum sample weight: Approx. 30 kg
Optional Motorized Rotation Stage
No radiation leaks

Power supply:
Single phase AC 200/230V (-15% to +10%)
100 to 240V AC (-10% to +6%)

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