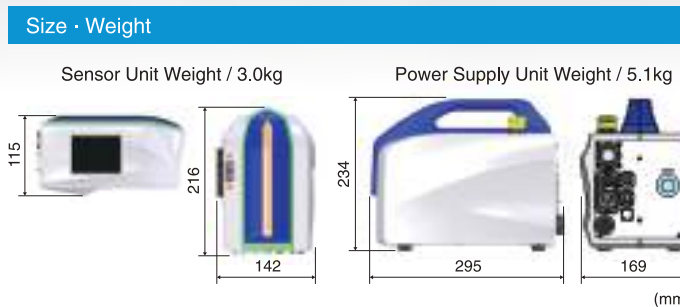


Portable X-ray residual stress analyzer

micro μ -X360J



Specification	
Measurement items	Residual stress, FWHM(included with software), Retained austenite(Optional)
Measurement method	cosa method(Single-incident angle method)
Collimator size	Standard: ϕ 1.0mm(Irradiation size Approx. ϕ 2mm)
X-ray tube cooling method	Air cooling
Power	AC100- 240V, 50/60Hz, 130W

Countries Using Pulstec's μ -X360 Series



※The specification in this document may change without prior notice.

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ISO9001 (Domestic Office)
 ISO14001 (Domestic Office)

MEMO

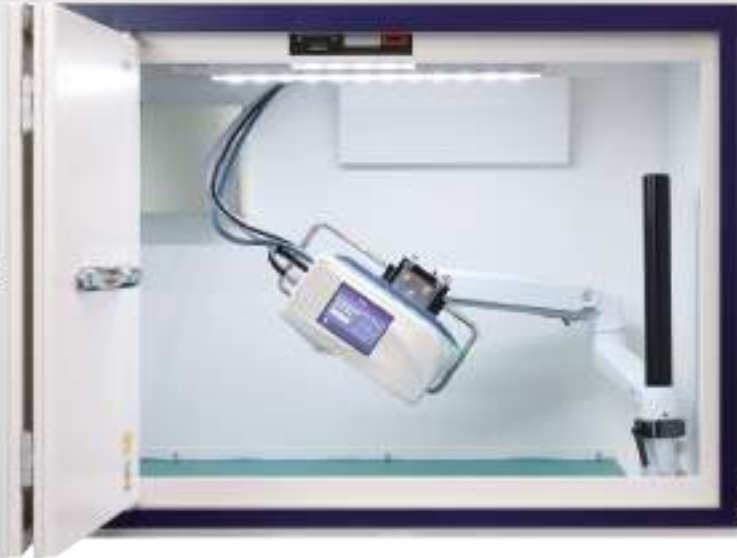
2024.09.2000

Easy measurements for anyone, anywhere!

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Features

Safety cabinet with interlock
Size: W800xD600xH600mm



Anyone

The safety cabinet prevents X-ray leakage



Spring



Crankshaft



Gear



Fillet weld

Anywhere

Non-contact, non-destructive measurement for large structures

Tripod • Flexible arm
Used for on-site measurements
Flexible positioning



Check the annealing effects of welds in oil tanks



Check the residual stress in a rolled component after heat treatment



Bridge maintenance

Uses X-ray diffraction to perform non-contact, non-destructive measurements

Equipped with a 2D detector, which captures the full Debye-Scherrer ring and ensures more precise measurements

Easy to set up

The μ -X360J features an LCD monitor, allowing you to easily see and adjust your sample



Primary benefits of μ -X360J

Short measurement time

Measures samples quickly compared to other equipment
Measures ferritic steel samples in ~40 seconds



Lower X-ray power output to ensure operator safety



On-site measurements are possible

Compact, lightweight and highly portable!



Easy-to-use software minimal training needed

Anyone can operate after short training!



STEP.1 Set the sample

Use the integrated angle gauge to adjust the X-ray incident angle
Use the CCD camera display to adjust the sample's position and distance

STEP.2 Start the measurement

X-ray is ON
After a few moments, the results are displayed

STEP.3 Read the results

The software will display residual stress results, the Debye-Scherrer ring, a camera image, and FWHM

Additional benefits & features of μ -X360J

We offer various, optional accessories for different measurement applications

Can select according to your specific application!

X-ray unit for exchange

Pulstec offers various X-ray tubes based on sample material
Available tube options include Cr, V, Mn, Cu, and Co

Collimator

Used to change the X-ray spot size without any special tools

Height adjustment stand for the sensor

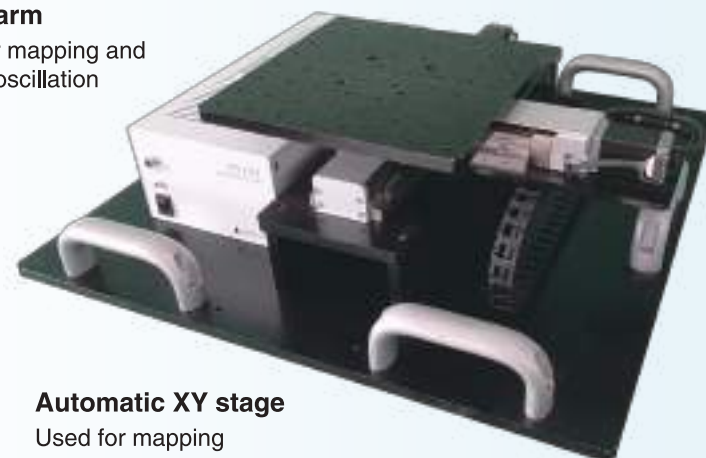
Helps when measuring flat samples continuously

Reference specimens for residual stress & retained austenite

Used for checking measurement accuracy

Robot arm

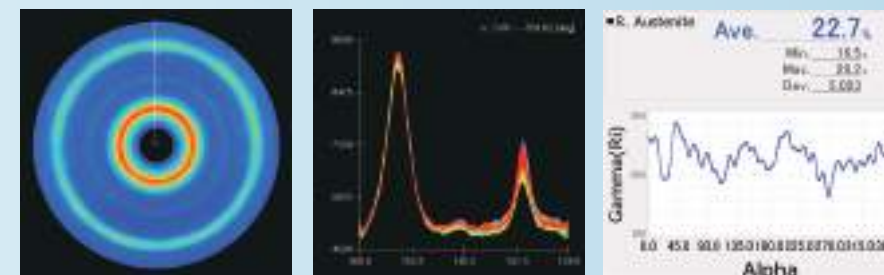
Used for mapping and tri-axial oscillation



Automatic XY stage
Used for mapping



Electrochemical polisher
Used for layer removal on depth profile measurements



Retained austenite measurement

Optional software function that measures the percentage of retained austenite in the sample



Hand-carry case

This impact-resistant carry-case protects the unit and flexible arm during transport