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

uipped with a 2D detector, which captures the full Debye-Scherrer ring and



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



# Primary benefits of \(\mu - X360J\)



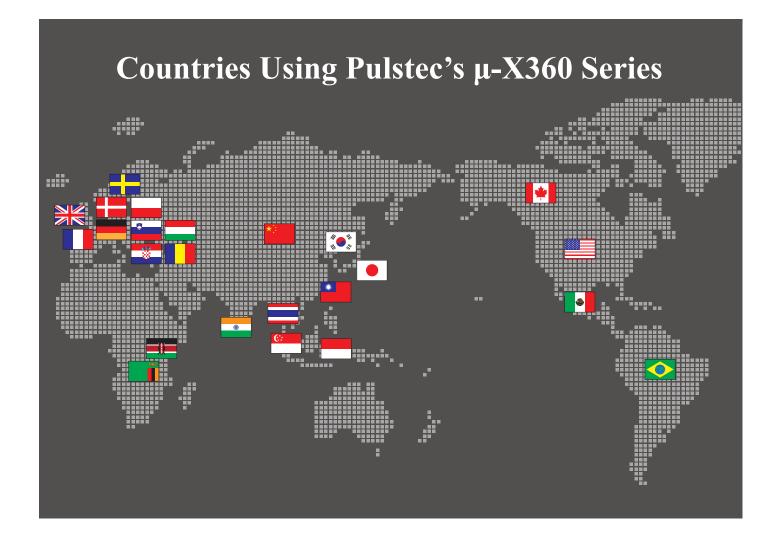
Lower X-ray power output to ensure operator safety







Specification	
Measurement items	Residual stress, FWHM(included with software), Retained austenite(Option)
Measurement method	cosα method(Single-incident angle method)
Collimator size	Standard: φ1.0mm(Irradiation size Approx.φ2mm)
X-ray tube cooling method	Air cooling
Power	AC100- 240V, 50/60Hz, 130W



### PULSTEC PULSTEC INDUSTRIAL CO.,LTD.

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# Portable X-ray residual stress analyzer

11-X360J

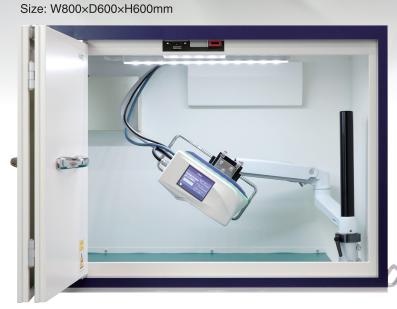


Easy measurements for anyone, anywhere!



## **Features**

Safety cabinet with interlock



Anyone

The safety cabinet prevents X-ray leakage





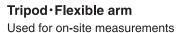


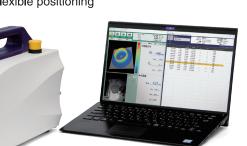




Anywhere

Non-contact, non-destructive measurement for large structures









Check the annealing effects of welds in oil tanks

## **On-site measurements** are possible

Compact, lightweight and highly portable!



## Easy-to-use software minimal training needed

Anyone can operate after short training!



### 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

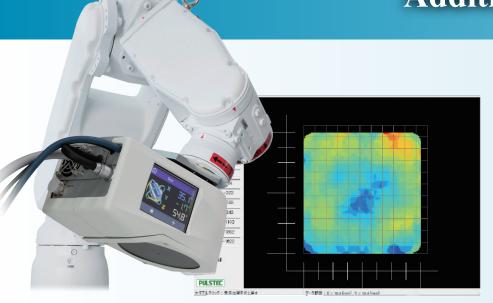
## STEP.2 Start the measurement STEP.3 Read the results

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

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

 $3.20_{\text{deg}}$ Min. 3.15 deg Max. 3.26 deg Dev. 0.001

# Additional benefits & features of $\mu - X360J$



Robot arm Used for mapping and tri-axial oscillation **Automatic XY stage** Used for mapping

We offer various, optional accessories for different measurement applications

Can select according to your specific application!

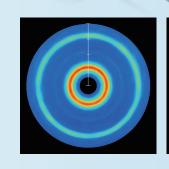
## X-ray unit for exchange

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

Electrochemical polisher

Used for layer removal on depth profile measurements

Used to change the X-ray spot size



retained austenite

Height adjustment stand

for the sensor

Helps when measuring

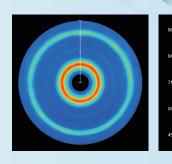
flat samples continuously

### Hand-carry case

Reference specimens for residual stress &

Used for checking measurement accuracy

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



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

