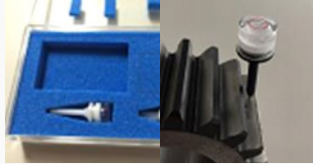




## 29-1 Calibration Sample (Included)

When you purchase μ-X360J, we provide a stable reference specimen made from consolidated materials that should be used to calibrate the unit.



## 30-1 Leveling Tool (Included)

The μ-X360J has a standard φ2mm straight/flat type leveling tool, which has a magnetic tip and can attach to your steel samples for leveling. An optional φ1mm straight type (item code 30-2) is available if you're using a φ0.3mm collimator.



## 10-2 PC (Optional)

When you purchase our PC, it will come pre-installed with our measurement software. Retained austenite measurement is a separate, optional function—please let our sales representative know if you need this software function.



## 11-2 Safety Cabinet (Optional)

Pulstec's safety cabinet features interlock protection to protect against X-ray leakage. There are three available safety cabinet models

- Standard: 800mm (Width) x 600mm (Diameter) x 600mm (Height)
- 1.4m: 1,400mm (Width) x 900mm (Diameter) x 800mm (Height)
- 2.0m: 2,000mm (Width) x 1,200mm (Diameter) x 1,000mm (Height)



## Reference Sample (Optional)

There are several levels of stress samples available. Please let our sales representative know which reference sample you'd like when purchasing the μ-X360J. We offer several options, including:

- 29-5 | Very Low Compressive: >~50Mpa
- 29-3 | Middle Compressive: ~800Mpa
- 29-2 Low Compressive: ~400Mpa
- 29-4 | High Compressive: ~1600 to ~1800 Mpa



## 12-1 Shielding Board (Optional, Field Measurements)

Our PVC shielding board protects against radiation leakage and is required for on-site/field residual stress analysis. It comes with two plates.

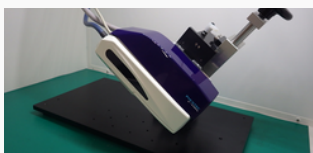
- Dimensions: 300mm (Width) x 300mm (Height) x 5mm (Thickness).



## 13-1 Z-Stage for the Sample Measurement (Optional, Calibration)

Ideal for calibration, our Z-stage lets you adjust the sample height (+/- 10mm).

- Dimensions: 60mm (Width) x 60mm (Depth) x 50mm (Height, Adjustable)



## 14-1 Z-Stage for Sensor Unit (Optional)

This accessory allows you to adjust the height of the sensor via a rotating wheel and is suitable for repeatable measurements on similarly shaped and sized samples. The adjustment range is 80mm.

- Dimensions: 300mm (Width) x 200mm (Depth) x 321mm (Height, Adjustable)



## 15-1 Flexible Arm for Sensor Unit (Optional, Lab & Field Measurements)

The flexible arm allows you to adjust the position of the sensor unit. It's a recommended accessory for lab/on-site/field measurements or for applications requiring measuring various-shaped samples.



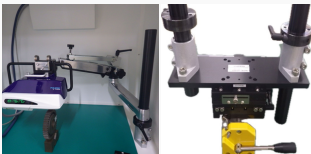
## 16-1 Tripod (Optional, Field Measurements)

For field measurements, we recommend purchasing the flexible arm and the tripod, which holds the flexible arm during on-site/field measurements. The tripod weighs 5.1kg (11 lbs).

No image available

## Surveymeter (Optional, Field Measurements)

Our surveymeter is essential for field measurement to ensure operator safety. Prior to starting your measurements, use the surveymeter to check the radiation level and create a safety area.



## 15-2 Fine Adjustment Stage & Magnetic Base (Optional)

This accessory allows you to finely adjust the sensor unit's position. Using a magnetic base, both the X and Y axes are adjustable in a 50-mm range in step with 0.01mm resolution.



## 18-1 Battery (Optional, Field Measurements)

The battery allows you to power the μ-X360J without electricity for up to six hours for on-site/field measurements. The battery weighs 3.6kg (8 lbs.).

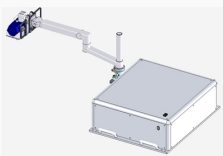
- Dimensions: 230mm (Width) x 153.2mm (Depth) x 167.3mm (Height)



## 19-1 Angle Gauge (Optional, Field Measurements)

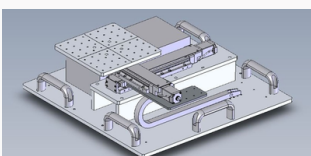
This gauge features a magnet attachment and allows you to adjust the sensor/X-ray incident angle.

- Dimensions: 51mm (Width) x 51mm (Depth) x 33mm (Height)



## 20-1 X-Y Stage for Sensor Unit (Optional, Residual Stress Mapping, No Weight Limitation)

For residual stress mapping, you will need the X-Y stage for the sensor unit. With this option, there is no weight limitation. Its range is 200mm (for the X and Y axes). Automatic mapping software is included when you purchase this accessory.



## 20-2 X-Y Stage for the Sample (Optional, Residual Stress Mapping, 8kg Max)

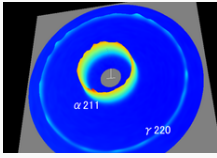
This accessory is also needed for residual stress mapping applications. It has a 150mm range for the X and Y axes and a weight capacity of 8kg (17.5 lbs). Automatic mapping software is included when you purchase this accessory.



## 22-1 Hand-Carry Case (Optional, Field Measurements)

This watertight, crush-proof urethane-coated case helps protect μ-X360J equipment, including the main unit, flexible arm, shielding board, and angle gauge. It is a recommended accessory for on-site/field measurements.

- Dimensions: 630mm (Width) x 500mm (Diameter) x 300 mm (Height)



## 23-1 Software Function: Retained Austenite (Optional)

Please request this software function if you need to measure the percentage of retained austenite in your sample.

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## Collimators (Optional)

You can change the measurement spot size of the μ-X360J with the following collimator options:

- 25-1 | φ0.2: X= 0.4mm, Y=0.5mm, Exposure Time=120 seconds
- 25-2 | φ0.3: X=0.8mm, Y=0.7mm, Exposure Time=120 Seconds
- 25-3 | φ0.5: X=1.3mm, Y=1.1mm, Exposure Time=60 Seconds
- 25-4 | φ2.0: X=4.7mm, Y=3.9mm, Exposure Time=5 Seconds



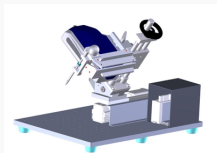
## 24-1 Collimator Exchange Tool (Optional)

This accessory is required if you're purchasing more than one collimator. The exchange comes in a convenient carry case with a hex bit and torque screwdriver.



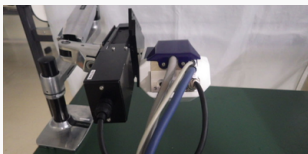
## 26-1 Electrochemical Polisher (Optional)

Our electrical chemical polisher enables localized, controlled electrolytic removal of material from the sample's surface without causing additional stresses. This accessory can be used with the residual stress analysis to produce depth/residual stress distribution profiles.



## 27-1 Sample Stage With Microscope (Optional)

This accessory is recommended for any application requiring fine adjusting of the sample's position.



## 28-1 Oscillator Unit (Optional)

The oscillator unit helps average the Debye-Scherrer ring of large grain samples. This unit is covered under Pulstec's limited warranty for four months or 3,000 oscillations, whichever comes first.



## 31-1 Positioning Tool (Optional)

This specialized accessory helps position gear samples before measurement. The sample can be magnetically attached to the positioning tool.



## 33-1 X-ray Tube (Optional)

This tube allows you to measure a wider range of materials. We offer five tube options: chromium, vanadium, copper, cobalt, and manganese.