

Next-Gen High Throughput & High Resolution 3D CT X-ray Automated Inspection System



Vertical, Oblique & CT X-ray Inspection System

X-RAY INSPECTOR

TI-X500s



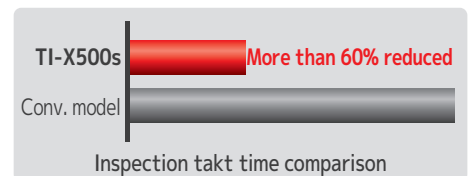
For Inline Auto-inspection

X-RAY INSPECTOR

TI-X500i

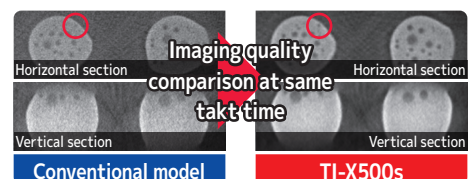
Throughput highly enhanced

- CT capturing time reduced to less than 1/3 comparing with our conventional model
 - Inspection speed highly enhanced by high speed FPD & newly developed machinery technology
 - Image capturing time requires only < 14sec/FOV at 32 projections
- * Amount of projection & resolution may change depending on the state of inspection target



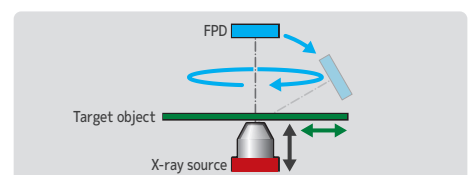
Imaging quality further improved

- Machine accuracy highly improved by high stiffness frame and linear scale
- Proprietary image processing technology & high-sensitive FPD provides clear image
- These unique features work to obtain high quality CT image and to improve automated inspection precision

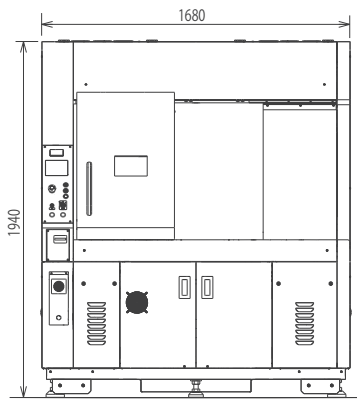


Full coverage capturing mechanism - vertical, oblique and CT

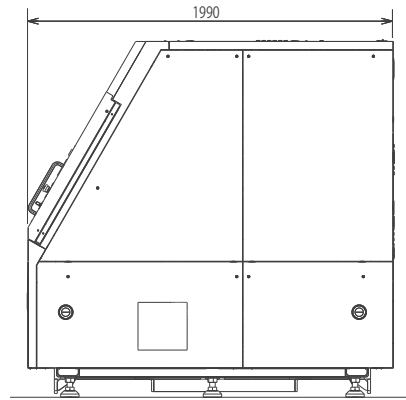
- Captures at any angles from 0 to 60 degrees, providing best capturing condition
 - Single detector covers vertical angle, oblique angle and CT capturing, achieving high cost performance
 - Max 0.33um high resolution capturing available
- * Resolution changes depending on the angle at oblique and CT capturing



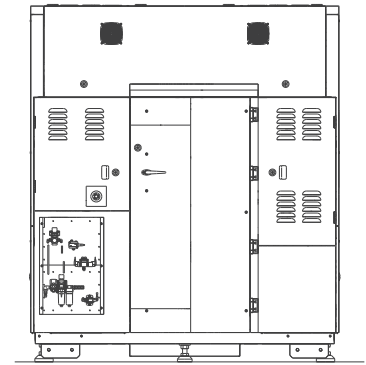
Specifications



Front view



Side view



Rear view

*The drawing is based on TI-X500s.

Inspection specification

Model	TI-X500s	TI-X500i
Inspectable board size	Dimensions: Max W510 × L370mm *1 Thickness: Max 3mm / Weight: Max 2kg	Dimensions: Max W350 × L350mm Thickness: Max 3mm / Weight: Max 2kg
Board top/bottom clearance	Top: 50mm, Bottom: 40mm	Top: 50mm, Bottom: 30mm
Inspection item	2D: Component inspection and solder bump inspection using transmission image 3D: Solder bump (BGA & C4) inspection and planting-filled TH inspection using CT image	←

System specification

Model	TI-X500s	TI-X500i
X-ray source	Open tube micro focus, Tube voltage: 20-160kV, Tube current: 0-200μA, Max resolution: 1μm	←
Detector	Sensor Type: 3M pixels	←
Oblique capturing angle	0-60°	←
Geometric magnification	Max 900 times	←
Image magnification ratio	Vertical capturing: Max ×225 60°Oblique angle capturing: Max ×112	Vertical capturing: Max ×100 60°Oblique angle capturing: Max ×50
Image resolution	Vertical capturing: Max 0.33μm 60°Oblique angle capturing: Max 0.67μm	Vertical capturing: Max 0.75μm 60°Oblique angle capturing: Max 1.5μm
Power voltage	Three-phase AC 200-240V, 3kVA	←
X-ray leakage dose	0.5μSV/h or less	←
Footprint & Weight	W1,680 × D1,990 × H1,940mm / 3,700kg	W1,680 × D1,990 × H1,940mm / 4,000kg

*1 W515 x L610mm when carbon plate jig is used.

Specification herein is subject to change without prior notice.
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<Distributor>

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