

# XT-6/XT-6A SMT setup





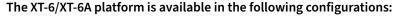




# Universal AXI system with Hexaglide motion concept

The XT-6/XT-6A platform is a highly flexible automated X-ray inspection system with minimum footprint and a parallel-kinematic Hexaglide manipulation unit for extreme-angle off-axis image acquisition with high resolution. It is suitable for high quality X-ray analysis of electronic assemblies and material analysis of parts that require flexible part manipulation with multiple inspection angles.

For batch modes and volume inspection the XT-6 can be equipped with a single-sided conveyor setup and magazine load/unload station (XT-6A).



XT-6/XT-6A Transmission (2D) +  $SFT^{TM}$  + Off-Axis (2.5D)

# XT-6

## Inspection & Process Software

- PC-Station with multi-core processor setup
- Windows 10 platform

### MIPS Inspection Platform

- Advanced algorithm library
- CAD import for automatic inspection list generation
- Automatic Tree Classifcation (ATC) for Auto-Rule-Generation
- Off-line programming for AXI program generation & simulation, tuning and defect reference catalogue

### **Verifcation & process control**

- MIPS Verify link with closed loop repair
- MIPS Proces with real time SPC

### **Features and Benefits**

- Flexible AXI system for manual load and island of automation configurations
- Microfocus X-ray tube (sealed tube / maintenance free)
- Multiple programmable motion system with servo drives
- Digital CMOS flatpanel detector
- Automatic grey-level and geometrical calibration
- Barcode scanner for serial number and product type selection
- Full product traceability via customized MES-Interface



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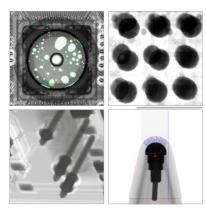
# **Applications**

A unique advanced algorithm library is available for electronic and medical applications, specifically for module, component and solder-joint inspection. All standard SMD and THT/PTH components

- BGA & dedicated off-axis head-in-pillow (HIP) algorithm
- Comprehensive QFN & gullwing algorithm
- Robust solder surface / heatsink void inspection
- Pin in paste barel fill measurement
- Discrete down to 1005 pitches

For small casting parts, medical implants or small automotive parts:

- Inclusions
- Assembly Test
- Metrology



For more information, speak with your Nordson representative or contact your Nordson regional office

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# **Specifications**

Facilities Facilities				
	XT-6	XT-6A		
Dimensions	1940 mm (H) x 1400 mm (W) x 1610 mm (D)	1940 mm (H) x 2250 mm (W) x 1610 mm (D)		
Weight	1.700 kg	2.000 kg		
Safe Operating Temperature	15° - 28 °C optimal 20° - 25° C	15° - 28 °C optimal 20° - 25° C		
Power Consumption	max. 6 kW	max. 6 kW		
Line Voltage	220 VAC, single phase, 16 A	220 VAC, single phase, 16 A		
Air	5-7 Bar, < 2 l/min, filtered (30μ), dry, oil free	5-7 Bar, < 2 l/min, filtered (30μ), dry, oil free		

X-ray Image Chain	
X-ray Source (sealed tube)	
Energy:	SMT-Setup 130 kV/40 W
Focal Spot Size	5 microns
Grey resolution	up to 14 Bit
CMOS Flatpanel Detector	75 μm pixel size (3 MPix)

Motion System		
Parallel-kinematic Hexaglide unit with 6 axes		
Position repeatability	+/- 5 μm	
X-ray tube (sealed):	Z-drive	
Handling		
XT-6	manual load	
XT-6A	single lane, in-out	

Inspection features		
Max. sample size	400 mm x 350 mm	
Max. inspection area	400 mm x 350 mm	
Min. sample size	100 mm x 50 mm	
Sample thickness	0,8 - 10 mm	
Max. sample weight	5 kg	
Angle shot capability	0 - 65 dgr	
Resolution	down to 3 μm / pix	

Assembly clearance	
Topside (incl. sample thickness):	160 mm
Bottom side (excl. sample thickness):	35 mm
Min. edge clearance for clamping:	3 mm

Inspection speed	
Transmission	up to 2 images /s
Off-Axis	up to 2 images /s

Options
Barcodereader
Heavy duty transport system