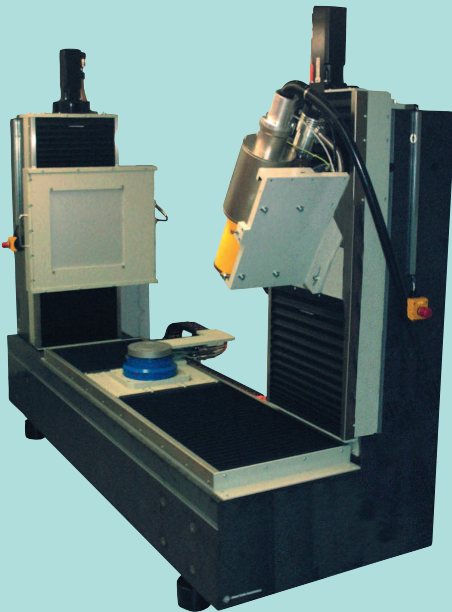


Y.CT Precision CT-based X-ray inspection system for high-resolution results



Tomorrow's testing processes require measurement methods to be more and more exact. YXLON International is already offering Y.CT Precision today as a solution to meet such future standards.

Y.CT Precision has been conceived for the most precise computed tomography applications in the testing and measurement sector. In this case, a microfocus X-ray system supplies the highest resolution. The precise manipulation system enables exact reproduction and repeatability, the basis for use as a three-dimensional measuring device.

An optimized scan mode, flat-panel detector, vertical measurement extension and special inline reconstruction enable full-scale volumes to be measured in a few minutes – all of which underscore the economic viability of Y.CT Precision. *YXLON. The reason why.*

- microfocus system
- exact CT measurement
- highly precise 6-axes manipulation system
- 3D measuring device
- high-speed measurement



Measurement modes	Computed Tomography	Volume scan / Cone beam
	Radiography	Continuous rotation / Stop & go mode Digital radiography / Real time
X-ray system	X-ray tube	Open microfocus X-ray tube
	Tube voltage / Tube current	10 - 225 keV / 0.01 - 3.0 mA
	Power	320 W
	Focal spot according to EN12543	3 µm for < 5 W / 10 µm bei 10 W / 220 µm by 320 W
	Cooling	Water
	Supplies	Auto-start, auto-focus, isowatt mode
Inspection envelope	Inspection item weight	20 kg
	Inspection item height	240 mm
		750 mm (vertical-scan field extension)
	Inspection item max. diameter	260 mm
Performance	Spatial resolution	approx. 1 µm resolution of detail / < 10 µm accuracy of measurement
	Contrast resolution	< 1%
	Scan time incl. reconstruction	1.8 min / Scan (rapid mode) < 15 min / Scan (mean scan time)
	Reconstruction	Inline reconstruction (5 min @ 720 Projections, 1024*3 Voxel)
Imaging system	Type of Detector	Flat Panel PE RID 1640 CT
	Format / Sensor	409.6 x 409.6 mm² Sensor area
	Resolution / Pitch	1024 x 1024 Pixel / 400 µm
	Dynamics	16 bit A/D
Imaging parameters	Magnification	1.5 x - 300 x
	Focus-Detector-Distance	1,500 mm
Manipulator	Material	Granite
	Dimensions (Length x Depth x Height)	2,600 mm x 1,000 mm x 2,200mm
	Weight	4 t
	Turntable diameter	200 mm, surface freely elective
	- max. speed / precision	36 °/s (freely elective) / 0.02°
	Longitudinal axis turntable	1,000 mm
	- max. speed / precision	50 mm/s / < 10 µm
	Vertical axis X-ray source	500 mm
	- max. speed / precision	50 mm/s / < 1 µm
	Vertical axis detector	500 mm
- max. speed / precision	50 mm/s / < 1 µm	
Radiation protection	Radiation-shielded cabinet	Customized radiation protection solutions Typical dimension for walk-in cabinet (L x W x H): 4,500 mm x 2,000 mm x 2,300 mm
Control unit	Operator console with two 19" TFT monitors	
	Computer server cabinet with X-ray operation sector	
Software	Control software	Y.CT Control Software Y.CT Inline Reconstruction 3D Volume Software VG Studio
	Analysis software	
Environment	Power supply	3 phases + PE + N 63 A / 400 V / 50 Hz
	Ambient air temperature	20 - 25 °C
	Humidity	30 - 70%, no condensation
Options	Line Detector Array	
	Active vibration absorber	
	Chuck brace	
	Software	e.g. measurement software, VG Studio Max, Target/Actual Value Comp., reverse engineering
Customized	Configurations can be chosen freely at the customer's request	