

# Y.CT Compact

## CT-based X-ray inspection system for CT inspection close to production



YXLON International, the leading supplier in non-destructive testing equipment, is setting a new standard in industrial computed tomography with Y.CT Compact: Compact. Fast. Easy.

With high image quality for a reliable decision and short measurement times, Y.CT Compact meets quality-assurance requirements while maintaining low costs for investment and inspection. The system can be used to monitor production, quality control and prototype qualification.

With Y.CT Compact, YXLON offers low-priced access to the advantages of computed tomography while simultaneously providing a modular design adaptable to increasing specifications. A high-quality unit, rapid delivery and experienced service worldwide are all part of the package.

*YXLON. The reason why.*

- compact design requires minimum floor space
- rapid availability of measurement results
- user-friendly operation
- three-dimensional quality inspection
- low inspection cost per part



	Y.CT Compact / 225 kV	Y.CT Compact / 450 kV
<b>Measurement modes</b>	Computed Tomography Line Detector Array Radiography	Slice images / Fan beam Digital radiography
<b>X-ray system</b>	X-ray system (see also separate datasheet) X-ray tube Tube voltage Tube current Power Focal spot according to EN12543 Cooling	Y.MG226 Y.TU 225-D03 20 - 225 keV 2.8 mA @ 225 kV / max.15 mA 640 W 1.0 Water
		Y.MG452 Y.TU 450-D09 20 - 450 keV 1.6 @ 450 kV / max. 7.3 mA 700 W 0.4 Oil
<b>Inspection envelope</b>	Inspection item diameter Inspection item height Inspection item weight	335 mm 500 mm 30 kg
		450 mm 500 mm 30 kg
<b>Performance</b>	Spatial resolution Contrast resolution Scan time Scan time incl. reconstruction	0.1 mm lateral / 0.25 mm vertical 1% 15 sec 30 sec
		0.2 mm lateral / 0.25 mm vertical 1% 15 sec 30 sec
<b>Imaging system</b>	Type of detector Format / Sensor Resolution / Pitch Dynamic	Y.Line Scan 471 mm effective length 5,565 Pixel / 85 µm 12 bit
		Y.Line Scan 573 mm effective length 2,294 Pixel / 250 µm 16 bit
<b>Imaging parameters</b>	Magnification Focus-detector-distance	1.33 times 1,000 mm
		1.42 times 1,100 mm
<b>Manipulator</b>	Turntable diameter - max. speed / precision Vertical axis - max. speed / precision	300 mm 5 Upm / 27" 600 mm 50 mm/sec / 0.05 mm
		450 mm 5 Upm / 27" 600 mm 50 mm/sec / 0.05 mm
<b>Radiation protection</b>	Radiation protection cabin (L x H x D) Sliding door	1,600 x 2,100 x 1,700 mm <sup>3</sup> Weight 3.5 t manually operated In compliance with the German X-ray regulations for fully protected shielding
		1,950 x 2,230 x 1,950 mm <sup>3</sup> Weight 8.5 t motor operated
<b>Control unit</b>		Operators desk with one 19" TFT monitor Computer server cabinet with X-ray operation sector
<b>Software</b>	System software Analysis software	Y.CT Software Control, reconstruction, remote maintenance 3D Volume software VG Studio
<b>Environment</b>	Power supply Ambient air temperature Humidity	3 phases + PE + N 63 A / 400 V / 50 Hz 20 - 25 °C 30 - 70%, no condensation
<b>Options</b>	Inspection item diameter Inspection item height Inspection item weight Sliding door with indoor window Fix tuning tool Software	420 mm 750 mm 50 kg - • • e.g. pores-flaws analysis, analysis of wall thickness Nom./Act. value comp., VG Studio max
<b>Customized</b>	At customer request configurations are freely eligible	