



# Technical Data

## Y.CT Universal



<b>Measurement modes</b>	Computed Tomography Line Detector Array Computed Tomography Flat Panel	Slice images / Fan beam Volume scan / Cone beam Continuous rotation / stop & go mode Digital radiography / Real time		
<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 Supplies	Radiography MG 452 Y.TU 450-D02 60 - 450 keV / 2.0 - 9.0 mA 900 W 2.5 mm Oil-Water / Oil-Air Filter kit and collimators		
<b>Inspection envelope</b>	Inspection item weight Inspection item height Inspection item max. diameter	alternative	alternative	optional
		<b>Line Detector Array</b>	<b>Line Detector Array</b>	<b>Flat Panel</b>
<b>Performance</b>	Spatial resolution Contrast resolution Scan time  Scan time incl. reconstruction Reconstruction	75 kg 1,200 mm 505 mm	75 kg 1,200 mm 620 mm	75 kg 1,200 mm 315 mm 630 mm (horizontal scan field extension)
		73 - 195 µm 1 % 15 sec  30 sec	73 - 195 µm 1 % 15 sec  30 sec	115 - 300 µm 1 % 300 ms / Projektion (1024' Pixel)  Inline Reconstruction 512' Voxel, 360 Projections approx. 100 sec
<b>Imaging system</b>	Type of Detector Format / Sensor Resolution / Pitch Dynamic	Line Det. Array LDA2604-250-5X 651 mm effective length 2604 Pixel / 250 µm 16 bit	Line Det. Array LDA3224-250-5X 806 mm effective length 3224 Pixel / 250 µm 16 bit	Flat Panel PE RID 1640 CT 409,6 x 409,6 mm <sup>2</sup> Sensor area 1024 x 1024 Pixel / 400 µm 16 bit
<b>Imaging parameters</b>	Magnification Minimal Focus-Detector-Distance Maximum Focus-Detector-Distance	1.25 - 3.33 times 1,000 mm 2,000 mm	1.25 - 3.33 times 1,000 mm 2,000 mm	1.25 - 3.33 times 1,000 mm 2,000 mm
<b>Manipulator</b>	Material Dimensions (Length x Depth x Height) Weight Turntable diameter - max. speed / precision Longitudinal axis turntable - max. speed / precision Vertical axis X-ray source 450 kV - max. speed / precision Vertical axis detectors - max. speed / precision Longitudinal axis detectors - max. speed / precision Traverse axis Flat Panel (scan field extension) - max. speed / precision	Steel / Granite 3,800 x 1,300 x 2,850 mm <sup>3</sup> 6 t 400 mm / plane surface, witch notches 45 °/s / 0,04 ° 1,500 mm 50 mm/s / < 50 µm 1,200 mm 50 mm/s / 50µm 1,200 mm 50 mm/s / 50µm 1,100 mm 50 mm/s / 50µm 500 mm 50 mm/s / 50µm		
<b>Radiation protection</b>	Radiation protection cabin	Customized radiation protection solutions Typical mass for walkable cabin (L x W x H): 5,500 x 3,000 x 3,200 mm <sup>3</sup>		
<b>Control unit</b>	Operators Desk with two 19" TFT Monitors Computer server cabinet with X-ray operation sector			
<b>Software</b>	Control software  Analysis software	Y.CT Control Software Y.CT Inline Reconstruction 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>	Monitoring camera Laser for indicate slice position Hand-held control for manipulator Active vibration absorber Software	e.g. VG Studio Max, Nom. / Act. Value Comp. Measurement Software, Reverse Engineering		
<b>Customized</b>	At customer request configurations are freely eligible			