

TomoScope® L

X-Ray Computed Tomography Machine



Fast Measurements

Measure faster with OnTheFly and high resolution via transmission tube.

High Resolution

Large distance between source and detector for small cone angles.

Low Uncertainty

Local subvoxeling for reduction of the probing error (patent).

Specifications



X-ray Source	
Tube Type	Open
Target Options	Transmission Target (TT) Reflection Target (RT)
Max. Voltage TT	300kV (225kV) (190kV)
Max. Voltage RT	225kV (300kV)

System	
Width	101 in [2570 mm]
Depth	72.0 in [1823 mm]
Height	78.0 in [1976 mm]
Weight	18743 lbs [8500 kg]
Voltage	400 V (230 V) ±10%
Frequency	48 - 62 Hz
Power	2000 VA
Air Pressure	7 - 10 bar
Air Consumption	3000 NI/h
Humidity	40% - 70%
Air Contamination	0.05 mg/m ³
Temperature	50 - 95 °F [10 - 35 °C]
Operating System	Microsoft Windows

X-Ray Detector	
Surface Area	5.7 x 4.5 in ² [145 x 115 mm ²] 15.7 x 15.7 in ² [400 x 400 mm ²]
Pixel Count	1024 x 1024 4096 x 4096

Specifications vary depending on machine configurations, operating conditions, and calibration

Inspection	
Max. Sample Weight	88 lbs [40 kg]
Max. Diameter "in the image"	Ø = 5.0 in [127 mm] Ø = 12.6 in [319 mm]
Max. Length "in the image"	L = 4.0 in [101 mm] L = 13.8 in [351 mm]
Max. Diameter Raster	Ø = 8.5 in [217 mm] Ø = 17.8 in [451 mm]
Max. Length Raster	L = 16.8 in [426 mm] L = 25.7 in [625 mm]
Max. Distance Source to Detector	42.9 in [1250 mm]

Maximum Permissible Error [MPE]	
Standard Conditions	P: 4.5 µm E: (4.5 + L/175) µm SD ³ : (3.5 + L/100) µm

L = measuring length in mm comparable to ISO 10360 and VDI/VDE 2617

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