

# Y.Cougar SMT - Technical Data



## GENERAL PRODUCT FEATURES

Detail detectability	< 500 nm
Time to first image	~ 20 s
Reconfiguration	< 60 s
μCT scan time	> 7 s
μCT reconstruction time	~ 90 s
Image chain	Flat panel detector
CNC	yes, incl. 'Click & Center', etc.
Twin magnification	yes, for Zt and Zd positioning
Oblique viewing	+/- 70° (140°)

## X-Ray Tube

Tube type	Open microfocus tube
Target	Transmissive
Target material	Tungsten
Voltage range	25-160 kV
Current range	0.01-1.0 mA
Max. tube power	64 W
Max. target power	15 W
Detail detectability	< 1 μm
X-Ray intensity control	TXI

## X-Ray Tube Option

Tube type	Open multifocus tube (MFT)
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## Image Chain

Detector type [Option 1]	Panel 1308 [Ultra] High Speed
Number of pixel	1,004 x 620 pixel
Pixel size	127 μm
Max. inspection area per image	127 mm x 78 mm
Geometric magnification (max.)	2,000 x
Total magnification (max.)	17,500 x
Frame rate (max.)	10 fps [60 fps]
Image chain	16 bit

## Image Chain Option 2

Detector type	Panel 1313 High Speed
Number of pixel	1,004 x 1,004 pixel
Pixel size	127 μm
Max. inspection area per image	127 mm x 127 mm
Geometric magnification (max.)	2,000 x
Total magnification (max.)	17,500 x
Frame rate (max.)	30 fps
Image chain	16 bit

## Physical Dimensions

Width / depth / height [mm]	~ 1,100 / 1,100 / 2,100
Weight	~ 1,450 kg

## Image Processing

Operating system	Windows 7
Y.FGUI Basic	Click & Center, AIM, integrator, contrast, sharpening, OSD, smoothing, average, profile, date & time, etc.

## Image Processing Option

Y.FGUI Map and Report	
Y.Traceability	

## Manipulation

Manipulation control via	Mouse & joystick
Inspection area (max.)	310 mm x 310 mm (12" x 12")
Sample size (max.)	440 mm x 550 mm (17" x 21")
Sample tray axes	X, Y
Tube and detector axis	Zt 200 mm and Zd 300 mm
Oblique viewing	+/-70° (140°)
CNC	yes

## Further Options

Rotational sample table	360° (diameter 210 mm / 8")
Additional rotate & tilt axis	360° / 60° (no CNC)
Modules	Y.μCT Module with optional Y.QuickScan, Y.T&R and other customized modules
Hardware and software	High-power target, bar code scanner

## Electrical Data

Power supply	400V/3N/PE/AC±10%, 50/60Hz
Fuse protection	3 x 16 A
Power consumption	P = 2.5 kVA max.

## Environmental Conditions

Radiation protection	< 1μSv/h
Ambient conditions	15° to 25° C
Relative humidity	max. 80%, non condensing

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Subject to change without notice.  
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