



## Y.Cougar SMT - Technical Data



Image similar

### General Product Features

Time to first image (typ.)	~ 20 s
Reconfiguration time (typ.)	< 60 s
μCT scan time (min.)	8 s
μCT reconstruction time (min.)	~ 90 s
Image chain	Flat panel detector
CNC	yes, incl. "Click & Center" etc.
Twin magnification axis	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	10 W
Detail detectability	< 1 μm
X-Ray intensity control	TXI

### X-Ray Tube Option

Tube type	Open multifocus tube (MFT)
Detail detectability (min.)	< 500 nm

### Image Chain

Detector type	Panel 0505 High Definition
Number of pixel	1,032 x 1,000 pixel
Pixel size	50 μm
Field of view (max.)	41 mm x 41 mm
Geometric magnification (max.)	2,000x
Total magnification (max.)	10,000x
Frame rate (max.)	16 fps
Image chain	16 bit

### Image Chain Option

Detector type	Panel 1313 High Speed
Number of pixel	1,004 x 1,004 pixel
Pixel size	127 μm
Field of view (max.)	102 mm x 102 mm
Geometric magnification (max.)	2,000x
Total magnification (max.)	3,940x
Frame rate (max.)	30 fps

### Image Chain Option

Detector type	Panel 1212 High Definition
Number of pixel	2,240 x 2,344 pixel
Pixel size	50 μm
Field of view (max.)	90 mm x 94 mm
Geometric magnification (max.)	2,000x
Total magnification (max.)	10,000x
Frame rate (max.)	9 fps

Subject to change without notice.  
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### Image Processing

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

### Image Processing Option

Y.FGUI Extended	BGA, Void Calculation, AVI rec.
ADR	Automatic Defect Recognition

### 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, 250 mm
Oblique viewing	+/-70° (140°)
CNC	yes

### Further Options

Rotational sample table	360° (diameter 210 mm)
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, printer

### Electrical Data

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

### Physical Dimensions

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

### Environmental Conditions

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

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