



## X-ray CT Unit <XCTG-022>

This unit is developed for high energy X-ray micro CT experiments .  
As a feature, the stroke of the Z axis is 300 mm. In addition, a slip ring is attached to the  $\theta z$  axis to rotate 360 degrees.



### Features

◆ This unit has a total of 7 axes, and encoders are attached to the Z, X, and  $\theta z$  axes.

◆ The Z-axis stroke is 300 mm and the highest point is 1300 mm from the floor.

◆ The load capacity of the Z axis alone is 200kg.

◆ Table Size(top table)  
70mm x 70mm

◆ Easy to move with casters

### Specifications

Model	XCTG-022	
Drive	Stepping motor	
Stroke	300 mm(Z axis) 150 mm(X axis) 6 deg( $\theta x$ axis)	8 deg( $\theta y$ axis) 360 deg( $\theta z$ axis) 20 mm(X2,Y axis)
Maximum speed(5 kpps)	4.0mm/sec(Z axis) 25 mm/sec(X axis) 0.8075 deg/sec( $\theta x$ axis)	1.03 deg/sec( $\theta y$ axis) 5 deg/sec( $\theta z$ axis) 1.25 mm/sec(X2,Y axis)
Resolution(Half step)	0.835 $\mu m$ (Z axis) 5 $\mu m$ (X axis) 0.0001615 deg( $\theta x$ axis)	0.000206 deg( $\theta y$ axis) 0.002 deg( $\theta z$ axis) 0.25 $\mu m$ (X2,Y axis)
Load Capacity	10kg	
Self weight	273 kg	
Dimension	778 x 894 x 1000(Lowest point) (W x L x H : mm)	