



X-ray Multi-axis Diffractometer <XDFM-007>

This unit is developed for synchrotron radiation mossbauer spectroscopy experiments .
As a feature, the stroke of the Z axis is 600 mm. In addition, the X-axis stroke is 100 mm and the single-axis load capacity is 200 kg.



Features

◆ On the Z axis, θ - 2θ , χ , ϕ , small Z, small XY axis, etc. are placed.

◆ There are two types of ϕ -axis, rough resolution and fine resolution.

◆ The length of the 2θ arm is 500mm.

◆ The load capacity of the Z axis is 100kg.

Specifications

Model	XDFM-007	
Drive	Stepping motor	
Stroke	100 mm(X axis) 600 mm(Z axis) 50 deg(θ axis) 190 deg(2θ axis)	180 deg(χ axis) 160 deg(ϕ axis) 3 mm(small Z axis) 10 mm(small XY axis)
Maximum speed(5 kpps)	1 mm/sec(X axis) 2.5 mm/sec(Z axis) 0.5 deg/sec(θ axis) 1.0 deg/sec(2θ axis)	5 deg/sec(χ axis) 10 deg/sec(ϕ axis) 0.31 mm/sec(small Z axis) 2.5 mm/sec(small XY axis)
Resolution(Half step) ※The ϕ -axis is a rough resolution type	0.2 μ m(X axis) 0.5 μ m(Z axis) 0.0001 deg(θ axis) 0.0002 deg(2θ axis)	0.001 deg(χ axis) 0.002 deg(ϕ axis) 0.0625 μ m(small Z axis) 0.5 μ m(small XY axis)
Load Capacity	100 kg(Z axis),200 kg(X axis)	
Self weight (unit total)	253 kg	
Dimension	440 x 894 x 1302 (W x L x H : mm)	