XRD Diffractometer FM-XRD-A100

Overview

XRD Diffractometer FM-XRD-A100 has a scanning range of -110° to 161° and a scanning speed between 0.0012° and 120°/min for precise angle measurement. It supports transmission mode for enhanced flexibility in data collection. This unit offers high resolution and a strong diffraction signal for reliable results. Our XRD Diffractometer comes with a lead door interlocking device for enhanced safety.

Specifications :

Scanning Range	-110° to 161°
Scanning Speed	0.0012° 120°/min
Minimum Stepping Angle	0.0001°
2, Angle Repeatability Accuracy	0.0001°
Angle Positioning Speed	1500°/min (2,)
Structure of Angle Measuring Instrument	Vertical angle measuring instrument with ,s-,d structure (224-bit absolute incremental grating)
Scanning Radius	Standard 225 mm (continuously adjustable from 150 mm to 325 mm)
Drive Mode	,s-,d linkage; ,s or ,d single action
Output Stability	d 0.005% (with power supply voltage fluctuation of 10%)
Linearity of Full Spectrum Diffraction Angle	d – 0.01° (International Standards)
Spectral Resolution	687 – 5 [eV] (rms) (MYTHEN) or 125 [eV] (SDD)
Maximum Linear Count Rate	1 x 10y CPS (no noise, MYTHEN) or 1 x 10u CPS (noise d 0.2 CPS, SDD)
X-Ray Leakage	d 0.12 µSv/h (at maximum X-ray tube power)
Comprehensive Stability	d 0.3% (40 kV, 40 mA, continuous operation for 8 hours)
X-Ray Tube Voltage	10 60 kV, 1 kV/step
X-Ray Tube Current	2 60 mA, 1 mA/step
Power Supply	2.4 kW / 3 kW
Dimensions (L ×W ×H)	1300 ×1000 ×1800 (mm)

Features :

Integrates electronic Protection System

Ensures ultra-high resolution

Incorporates one-dimensional array detector

Inbuilt circulating cooling water device

Equipped with a printer

Applications :

XRD Diffractometer FM-XRD-A100 is used to measure the structure, composition, and properties of materials by analyzing the way they scatter or diffract a beam of radiation and is mainly used in scientific research, the pharmaceutical industry, and nanotechnology.

VERICASS
255 Vauxhall Street, Colombo 00200
hello@VERICASS.COM