

XRD (X-ray diffractometer)

X선 회절기

The powder of the D8 DISCOVER with GADDS lies in the 2D detector and its ability to collect a large quantity of 2D information in a very small amount of time. Single crystal, micro-diffraction, texture, and Bulk data are collected easily and quickly with on loss of information.

Model

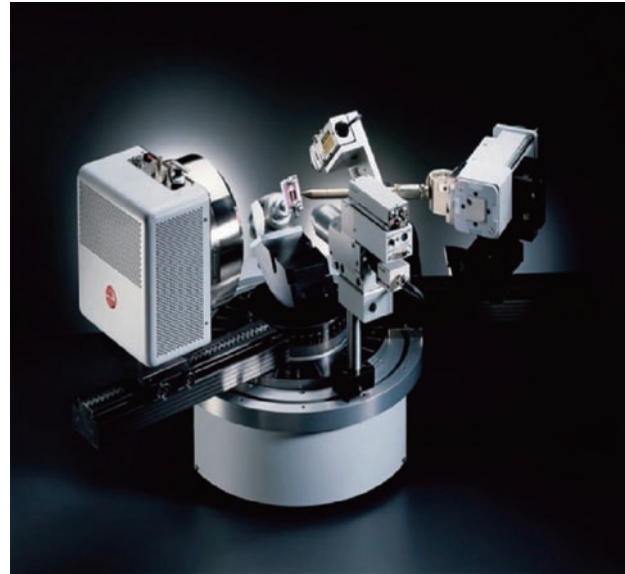
D8 Discover with GADDS

Specifications

- Horizontal and vertical
- Flat graphite monochromator
- 1/4-circle Eulerian cradle
- Real-time data collection and display
- Hi-Star 2 dimension detector
- 11.5 diameter active area

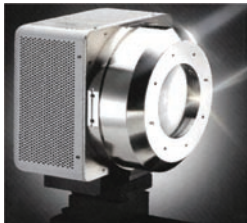
Applications

- Residual stress
- Micro-diffraction
- Texture
- Fast mapping



Location L1134 Tel.02-958-5958/5427

Hi-Star 2D detector



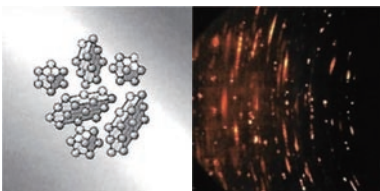
Laser video



Collimator



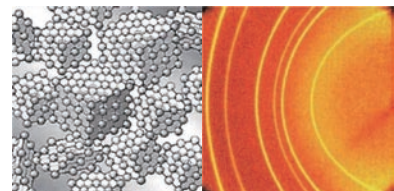
Micro diffraction ring pattern



Texture ring pattern



Bulk ring pattern



Residual stress analysis

Poisson ratio	Young's Value
0.310	90000
Stress Model:	
Biaxial + Shear	PseudoHydro: 0.0 ± 21.3
Normal:	
1.5 ± 22.0	
Shear:	
5.9 ± 5.4	

Texture ring pattern

