

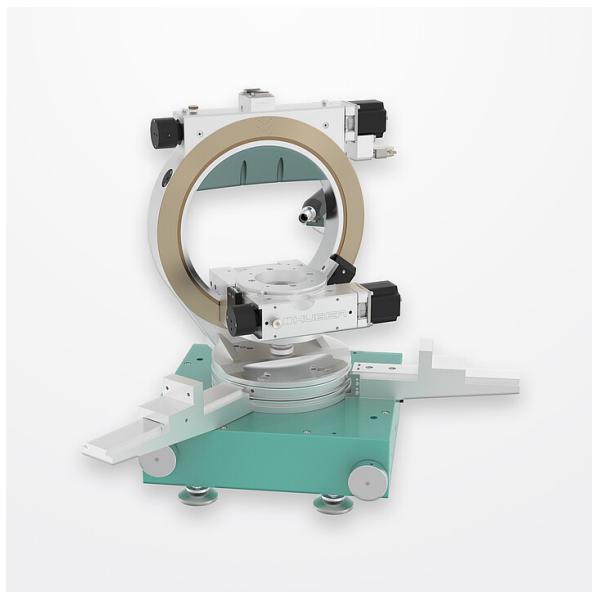
4-Circle Diffractometer 424-511.1

This 4-circle diffractometer, consisting of the components 424 and 511.1, is an effective system for the investigation of single crystal samples.

The instrument features:

- step motors
- limit switches and zero-point control
- collimator and detector arms
- detector mount
- cross slit screen 3011
- collimators (inside diameter 0.3/0.5/0.8mm)
- primary beam collector
- secondary beam collector (inside diameter 3.2mm)

We would be happy to incorporate customer specific alterations, if technically possible.



Specifications Phi-/Chi-circle:

	Phi-circle	Chi-circle
Travel range [°]:	360	360
Resolution [°]:	0.001* / 0.002* **	0.001*
Accuracy ["]:	30	30
Repeatability (unidir.)["]:	<= 2	<= 3
Reversal error ["]:	<= 10	<= 15
Gear ratio:	360:1 / 180:1**	360:1

* with step motor, 1000 steps/revolution

** using Goniometer 410A

Specifications 2-Theta/Omega:

	2-Theta	Omega
Resolution [°]:	0.001*	0.001*
Accuracy ["]:	<= 30	<= 30
Repeatability (unidir.)["]:	<= 2	<= 2
Reversal error ["]:	<= 7	<= 7
Gear ratio:	360:1	360:1
Eccentricity [µm]:	<= 3	<= 3
Wobble ["]:	<= 4	<= 4

* with step motor, 1000 steps/revolution

Specifications system:

Sphere of confusion [mm]:	<= 0.02
Weight [kg]:	60

Accessories:

Collimator-arm XYZ-cryostat carrier:	511.120
Counter bearing:	511.110
Slit screens:	Series 3000
Control system:	9300
CCD-camera:	MiniVID
Motors:	2-/3-/5-Ph.
Limit switches:	included
Zero-point control:	9100
Goniometer heads:	Series 1000
Encoder:	incremental absolute
Integr. Z-stage motorised:	5104.A05M*
Gear boxes:	2056.05 2056.10 2056.20
Half-screen device:	optional
Absorption filter device:	optional

* specific mount with cradle raised by 40mm necessary

