

2-Circle Goniometer 423

Due to its compact construction, the 2-Circle Goniometer 423 is ideal for applications where space is limited.

Both circular motions are independent of each other. The lower circle is equipped with a 2-Theta arm with a prism guide and carriage.

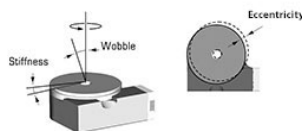
A further prism guide with carriage is mounted on the side of the housing of the upper circle.

Application specific versions:

- vacuum suitable
- antimagnetic
- radiation resistant
- in black

Specifications:

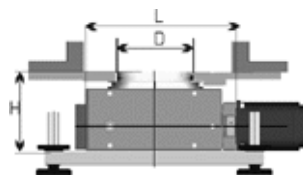
Travel range [°]:	360
Material (housing/worm gear):	Aluminium/Bronze
Gear ratio:	360:1
Resolution [°]:	0.001*
Min. drive torque [Nm]:	0.2
Weight [kg]:	12
Flange size [mm]:	56
Stiffness [μ rad/Nm]:	6
Max. load [N]:	
- Theta:	1500
- 2-Theta:	50



Accuracy ["]:	<=	30
Repeatability (unidir.) ["]:	<=	2
Reversal error ["]:	<=	10
Eccentricity [μ m]:	<=	3
Wobble ["]:	<=	5

* step motor, 1000 steps/revolution

Dimensions [mm]:



D:	L:	H:
98	189	110

Accessories:

Motors:	2-/3-/5-Ph. Servo/DC
Hand wheels:	0056
Gear boxes:	2056.05 2056.10 2056.20
Limit switches:	included
Zero-point control:	included
Encoder XE :	incremental absolute
Control system:	9300
Goniometer head support:	1412, 1413
Various arms:	analyser, counter weight
Counter weight:	optional
Base plate:	423.12 included
Soller split system:	optional

