

2-Circle Goniometer 424

This system offers low height, high precision and high load capacity.

As in all other systems in this series, both circular motions are independent of each other. The 2-Theta circle is equipped with an arm with prism guide and carriage.

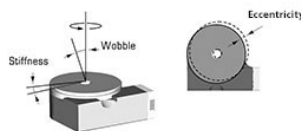
A further prism guide with carriage is mounted to the side of both circles.

Application specific versions:

- vacuum suitable
- antimagnetic
- radiation resistant
- in black

Specifications:

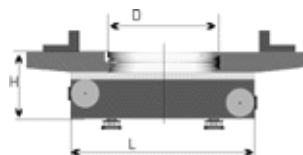
Travel range [°]:	360
Material (housing/worm gear):	Aluminium/Bronze
Gear ratio:	360:1
Resolution [°]:	0.001*
	0.00005 minimum
Min. drive torque [Nm]:	0.5
Weight [kg]:	36
Flange size [mm]:	56
Stiffness [μrad/Nm]:	2
Max. load [N]:	
- Theta:	3400
- 2-Theta:	100



Accuracy ["]:	<=	30
Repeatability (unidir.) ["]:	<=	2
Reversal error ["]:	<=	7
Eccentricity [μm]:	<=	3
Wobble ["]:	<=	4

* step motor, 1000 steps/revolution

Dimensions [mm]:



D:	L:	H:
215	356	130

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
Various arms:	optional
Counter weight:	optional
Soller aperture system:	optional

