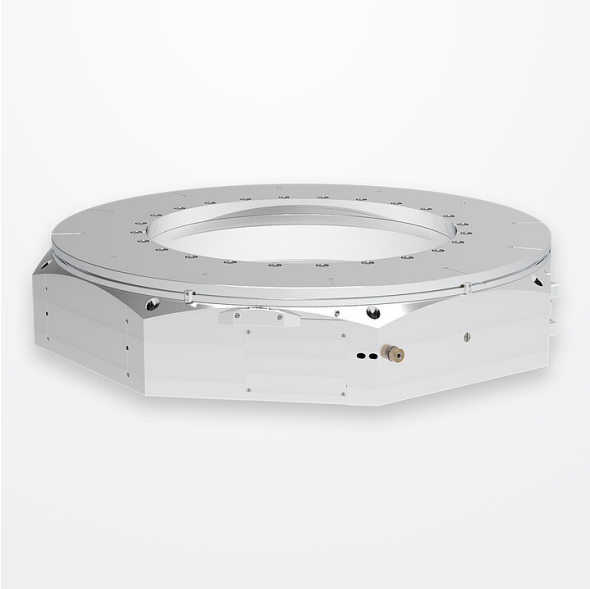


Goniometer 480

- four precision configurations
- two load configurations

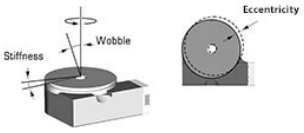
Application specific versions:

- vacuum suitable
- antimagnetic
- radiation resistant
- in black

Modularly individually configurable:

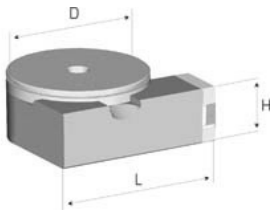
- from basic model to high-end system
- to multi-axis systems
- with individual transmission aperture
- with customer-specific hole pattern

Precision configurations:



	X1	X2	X3	XE
Accuracy ["]:	≤35	20	12	on request
Repeatability (unidir.) ["]:	≤4	2	2	on request
reversal error ["]:	≤8	4	3	on request
Eccentricity [µm]:	≤5	3	2	2
Wobble ["]:	≤7	4	2	2

Dimensions [mm]:



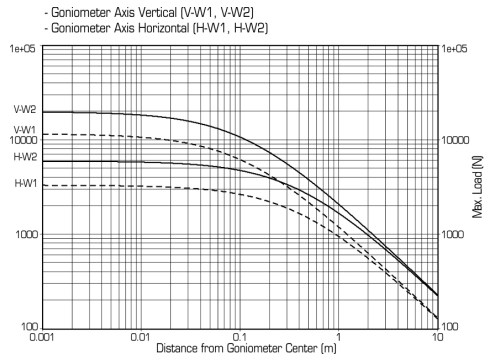
D:	L:	H:
800	621	165

Accessories:

Motors:	2-/3-/5-Ph.
	Servo/DC
Hand wheels:	0083
Gear boxes:	2083.05
	2083.10
	2083.20
Limit switches:	included
Zero-point control:	9100
Encoder XE :	incremental
	absolute
Control System:	9300

Load configurations:

	vertical gonio. axis	horizontal gonio. axis
Max. load [N] W1 :	11500	3300
Max. load [N] W2 :	20000	6000



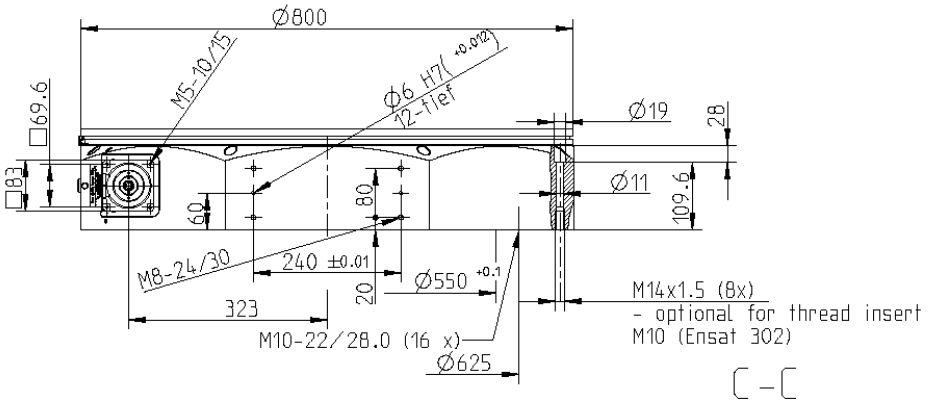
- vertical goniometer axis (V- W1 , V- W2)
- horizontal goniometer axis (H- W1 , H- W2)

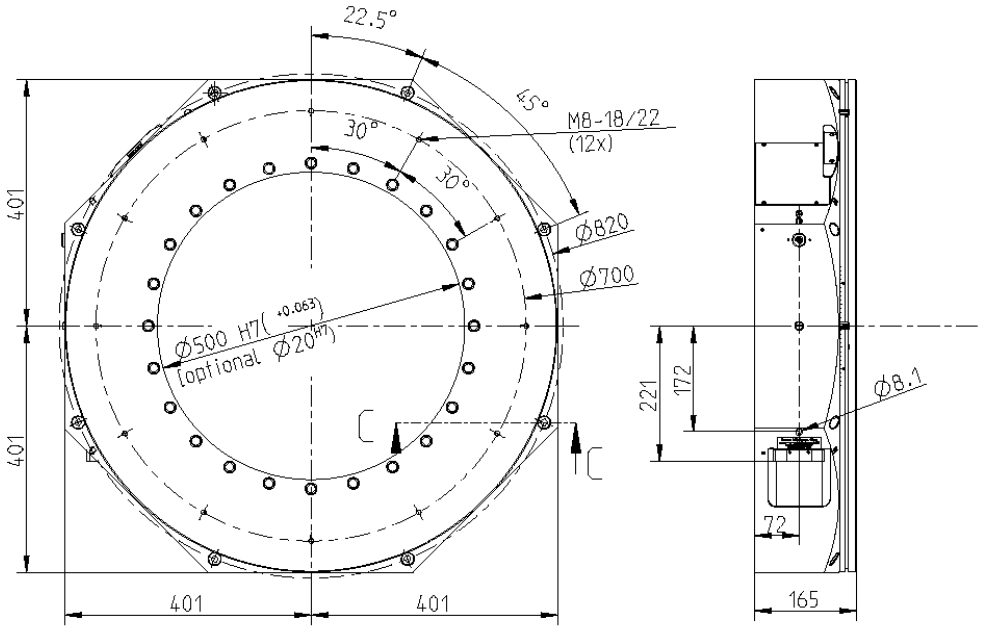
Specifications:

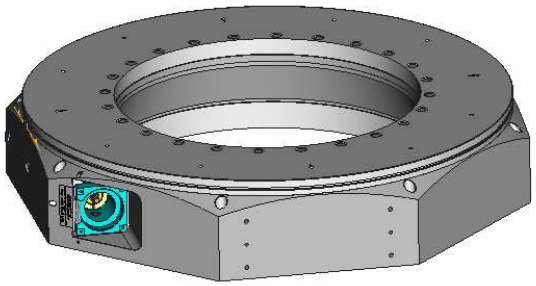
Travel range [°]:	360
Material (housing/worm gear):	Aluminium/Bronze
Gear ratio:	360:1
Resolution [°]:	0.001*
	0.00005 minimum
Min. drive torque [Nm]:	3.8

Max. output torque [Nm]:	250
Stiffness [µrad/Nm]:	0.02
Weight [kg]:	200
Flange size [mm]:	82
Transm. aperture [mm]:	500 (standard)

* step motor, 1000 steps/revolution







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Goniometer 480 (TS85548)