

DESCRIPTION

Rotation Stages of the structural series **UPR-300** and UPR-160 are employed for dynamical positioning. They are mainly utilized in the field of semiconductor technology, for positioning systems of laser treatment, automation systems and robotic. All Rotation Stages of the structural series UPR are directly

Calibrated, paired angular ball bearings guarantee a high central load capacity without breakdown torque. UPR - Rotation Stages are equipped with optical angular systems. Resolutions up to 0.0002° are standardly offered. For need of better positioning accuracies and larger free center driven by a torque motor. Mechanical transmissions become no longer necessary. So with this better positioning accuracies, higher dynamic accelerations and speeds can be achieved as in case of conventional drive systems. hole additional angular systems are offered. The Rotation Stages are equipped with a contactless limit switch.

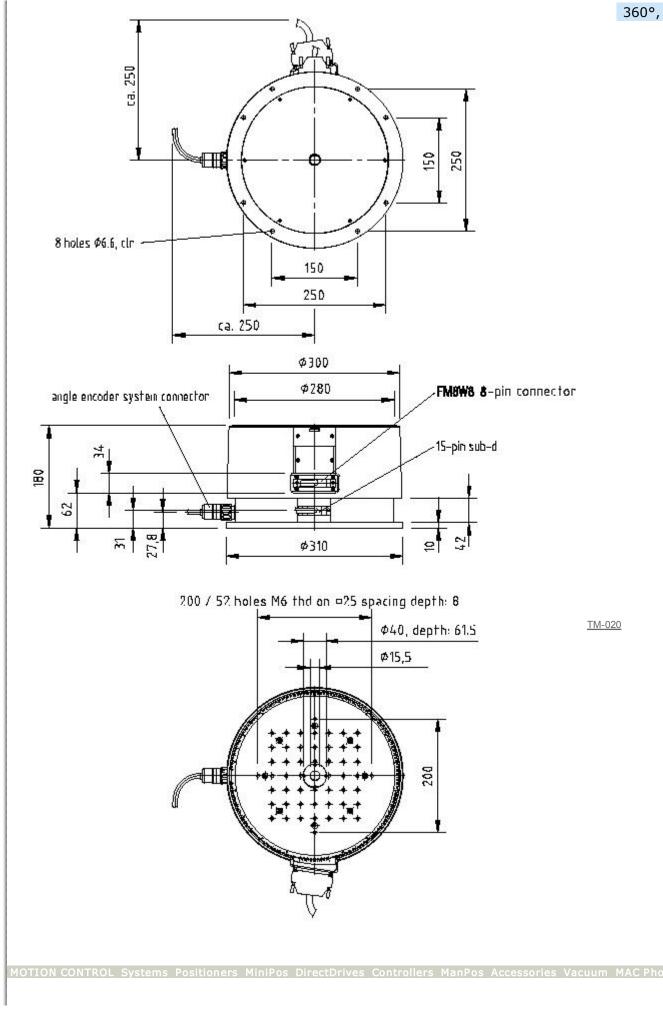
Technical data

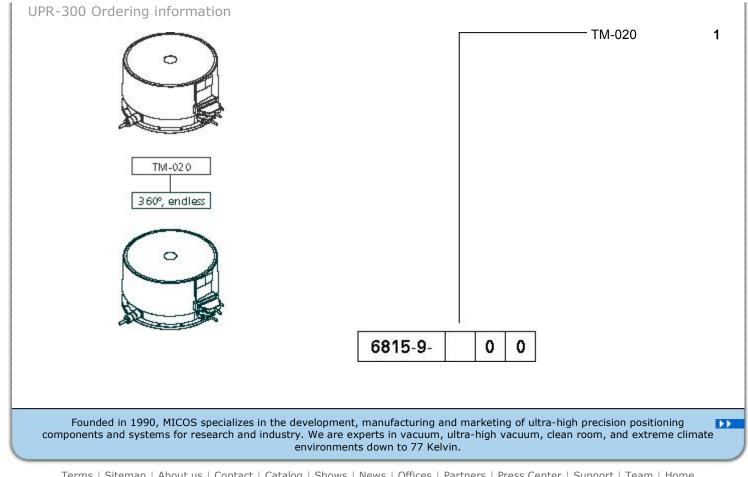
Rotation Range (°)	360, endless
Worm Gear reduction	
	-
Accuracy (°)	+/- 0.001388
Repeatability (°)	+/- 0.0002
Reversal Error (°)	-
Velocity Range (°/sec)	0.001 720
Flatness (µm)	+/- 1.5
Eccentricity (µm)	+/- 1.5
Wobble (µrad)	+/- 10
Speed max. (°/sec)	
<u>TM-020</u>	720
Resolution Closed-Loop (°)	
<u>AE-010</u> , Angular scale (25-times interpolation)	0.0002
, 5.1.1.(
Winding Constant	
Torque constant (Nm/Ams)	3.33
Back EMF constant, peak value V/(rads/sec)	2.7
Electrical resistance at 80° (Ohm)	1.42
Electrical resistance at 80° (Ohm) Electrical inductance (mH)	1.42 3.23
Electrical inductance (mH) Continuous current at 80° (Ams)	3.23 6.32
Electrical inductance (mH)	3.23

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Rotation range

360°, endless





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