

QuadMatic

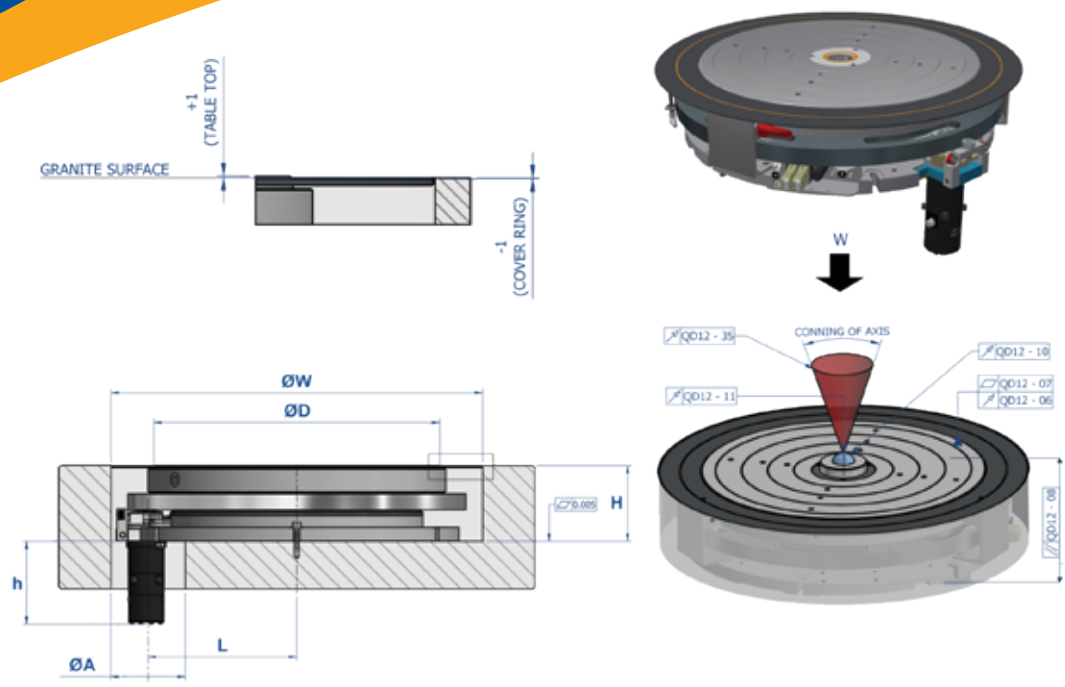
Additional Rotary Axis for High Precision Co-Ordinate Measurement Machines. All Quadrant products are ISO 10360 part 3 compliant.

Precision rotary axes specifically developed to increase the flexibility, productivity and efficiency of your CMM.

Ultra low profile, granite integrated rotary table where maximising measurement volume within the CMM is of utmost importance.

Measurement Capacity:

- Sizes Ø400mm, Ø600mm, Ø800mm, Ø1000mm and Ø1500mm
- Overall height 1mm (submerged in granite)
- Load capacities up to 7,000kgs
- Zero backlash drive
- Angular accuracy 2 arc seconds
- Angular repeatability 0.5 arc seconds



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Technical Data	QD	Unit	QuadMatic 400MB	QuadMatic 600MB	QuadMatic 800MB	QuadMatic 1000MB
Load Capacity		kgs	1000	1700	3000	5000
Maximum Tilt Moment		Nm	550	1500	4000	7000
Coning of Table Axis	12-35	Arc seconds	+/-0.5			
Maximum Acceleration @ Min Inertia		Rad/s ²	13.94	3.86	1.57	0.66
Maximum Acceleration @ Max Inertia		Rad/s ²	0.85	0.35	0.18	0.08
Maximum Polar Inertia		kgm ²	20	65	205	440
Angular Positioning Accuracy		Arc seconds	2			
Angular Resolution (Options Available)	12-56	Arc seconds	0.18, 0.09, 0.018			
Angular Repeatability	12-57	Arc seconds	0.5			
Drive Ratio			430:1	546:1	700:1	853:1
Maximum rpm		rpm	5	4.5	4	3
Rotation Error of Table Top	12-06	mm	0.005		0.008	
Flatness of Table Top	12-07					
Parallelism of Table Top To Base	12-08					
Radial Runout of Table Axis	12-10		0.0005			
Axial Runout of Table Axis	12-11					
Concentricity of Centre Bore	12-36		0.0025			

	Dimensions						Weight
	ØA	ØD	ØW	H	h	L	
Units	MM						kgs
QuadMatic 400	162	400	630	149	175	250	125
QuadMatic 600		600	780	159		315	370
QuadMatic 800		800	980			415	600
QuadMatic 1000		1000	1180	199		515	1150
Flexible Tooling Interface	HSK, Lang, Schunk, Gewefa (other options available on request)						