

# GeoOrdnate

---

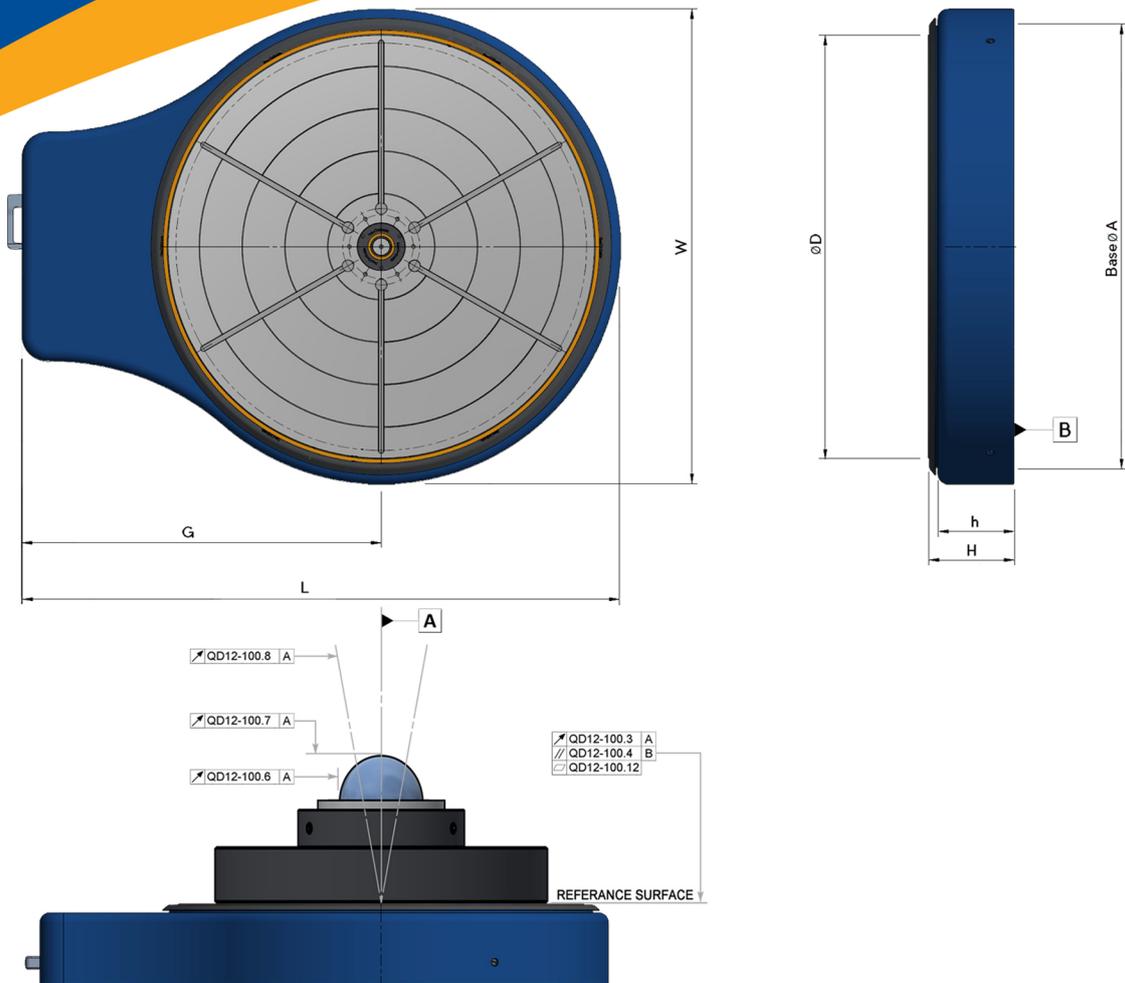
## HIGH PRECISION ANGULAR POSITIONING, CALIBRATION AND GEOMETRY INSPECTION

Ultra precise rotary tables intended for fine inspection, metrology and test applications.

The GeoOrdnate has been designed specifically for the inspection of large and heavy components and is fully compatible with any shop floor environment whilst maintaining world class accuracies more commonly seen in the standards laboratory.

### Measurement Capacity:

- Power driven axis
- Sizes  $\varnothing 400$  mm,  $\varnothing 600$  mm,  $\varnothing 800$  mm,  $\varnothing 1000$  mm and  $\varnothing 1500$  mm
- Load capacities up to 7,000 kgs
- Zero backlash drive
- Angular accuracy 2, 1, 0.5 arc seconds



	Dimensions							
	ØA	ØD	G	H	h	L	P	W
Units	MM							
GeoOrdinate 400	480	400	500	150	130	760	370	520
GeoOrdinate 600	680	600	640	160	140	1000	540	720
GeoOrdinate 800	880	800	740			1200		920
GeoOrdinate 1000	1080	1000	880	200	180	1400		1120
GeoOrdinate 1500	1580	1500	1090			1900	1620	
Flexible Tooling Interface	HSK, Lang, Schunk, Gewefa (other options available on request)							

GeoOrdinate SPEC								
	Technical Data	RPI QD Number	Units	400	600	800	1000	1500
Accuracy	Angular Positioning Accuracy*	QD12-100.5	Arc Seconds	2, 1, 0.5				
Precision	Radial Error Motion	QD12-100.6	µm	0.5				
	Axial Error Motion	QD12-100.7						
	Tilt Error Motion	QD12-100.8	Arc Seconds	+/- 0.5				
	Concentricity of Centre Bore	QD12-100.9	µm	2.5				
	Total Face Runout (Table Top)	QD12-100.3		5	8	10		
Flatness (Table Top)	QD12-100.12	12						
Parallelism (Table Top)	QD12-100.4	15						
Drive assembly	Load Capacity	N/A	kgs	1000	1700	3000	5000	7000
	Maximum Continuous Torque		Nm	23	33	43	53	73
	Maximum Polar Inertia		Kgm <sup>2</sup>	20	65	205	440	2000
	Maximum Tilt Moment		Nm	550	1500	4000	7000	10000
	Maximum rpm		rpm	5	5	4	3	2
	Weight		kgs	135	310	530	970	2010

QD56-11-B

Additional information available on request

\* The total bi-directional Angular Accuracy of the system including the effects of bi-directional Repeatability with a coverage factor of k = 2.



rpiuk.com