

Group	Positioning Slide	Date	03/29/2005
Series	DS6	Revised	9/4/2007
Element Group	Specifications	Revision	1
Element	General	Author	Unknown
		# Of Pages	2

General Specs For DS6

Languages	Target Group	Status	Usage	International Restrictions <small>checked = allowed to view</small>
<input checked="" type="checkbox"/> English	<input checked="" type="checkbox"/> Basic	<input type="checkbox"/> In Process	<input type="checkbox"/> Internal	<input checked="" type="checkbox"/> U.S. Citizens
<input type="checkbox"/> German	<input type="checkbox"/> Normal	<input checked="" type="checkbox"/> Completed	<input checked="" type="checkbox"/> Public	Non-Restricted Countries, End <input checked="" type="checkbox"/> Uses, and End Users (www.bis.doc.gov)
<input type="checkbox"/>	<input type="checkbox"/> Specialist			

About the Content:

This table contains the general specifications for the DS6 slide table.

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Notes:

The table specifications are based off of the travel length of the DS6 table. When checking specs, please make sure you are using the correct travel length. Data is for travel lengths at these exact “standard” increments. For travel lengths in between these “standard” lengths the data will have a reasonably linear proportion to the “standards.”

Some sections of the table have a line between 600 and 700. Everything to right of the line applies to ≥ 601mm.

Specifications Table

Travel (mm)	100	200	300	400	500	600	700	800	900	1000	1250	1500	1750	2000	
Overall Height (mm)	70														
Width (mm)	150														
Positional Accuracy (microns)															
Commercial Grade	14	22	28	39	45	48	92	94	103	105	118	134	154	159	
Precision Grade	12	14	15	20	25	50	-	-	-	-	-	-	-	-	
Straightness & Flatness (microns)															
Commercial & Precision Grade	10	14	17	23	30	33	40	46	50	55	76	95	115	135	
Bi-directional Repeatability, open loop															
Commercial Grade (microns)	+/- 3							+/-5							
Precision Grade (microns)	+/- 1.3							N/A							
Load Capacity, Normal (kg) (max)	630														
Axial Load Capacity (kg)															
Commercial Grade	200														
Precision Grade	90														
Acceleration (max) (m/sec ²)	20														
Moving Mass (kg)	2.8														
Total Mass (kg)	8.9	10.2	11.5	12.8	14.0	15.4	19.4	20.9	22.4	23.9	27.8	31.6	35.4	40.1	
Ballscrew Diameter (mm)	16							25							
Duty Cycle (%)	100														
Ballscrew Efficiency	90							80							
Max. Breakaway Torque (oz-in)	18							55							
Max. Running Torque (oz-in)	16							48							
Ballscrew Lead Available (mm)	5, 10							5, 10, 25							
Input Inertia (10 ⁻⁵ kg-m ²)	3.8	4.4	5	5.5	6.1	6.7	37	40.4	43.9	47.3	56	64.5	73.2	81.9	
Max. Ballscrew Speed (rev/sec)	80							60	50	40	35	24	16	13	11