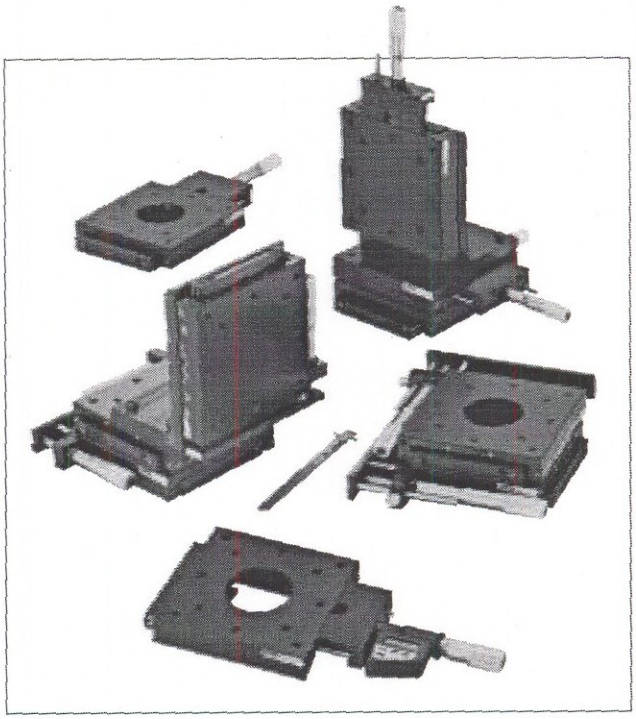
4400 Series (5.0 inches wide) Square Face, Multi-Axis Stages

The 4400 positioning stage provides a large five inch square mounting surface on a relatively low profile (1.0 inch) and can be selected with or without a two inch diameter clear aperture. The 4400 series offers a variety of selections including: English or Metric Style (size and mounting); two bearing types (ball or cross roller); and three drive mechanisms (English micrometer, Metric micrometer or digital micrometer). Position locks are also available as a separate option when ordering. Three axis units can precisely lift payloads weighing up to thirty pounds.

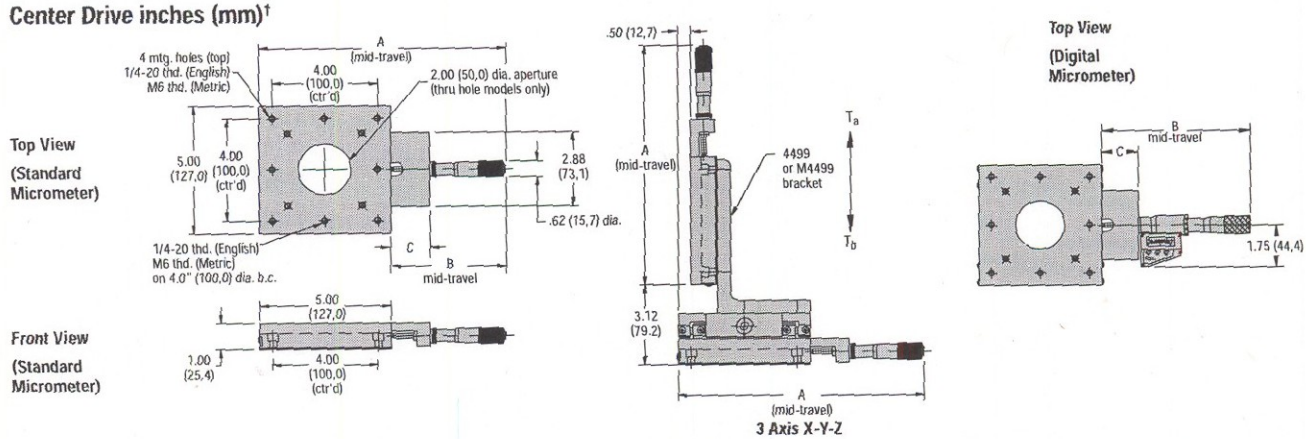


Specifications	English	Metric
Travel - Maximum (selectable)	2.0 in	50 mm
Load Capacity:*		
Normal	95 lb – See table.	43 kg – See table.
Thrust T_a	2.5 lbs	1,1 kgs
T_b	30 lbs	13,5 kgs
Straightline Accuracy	0.00008 in (per inch of travel)	2 ∝m (per 25 mm travel)
Resolution/Graduations:		
English Micrometer	0.001 in	n/a
Metric Micrometer	n/a	0,01 mm
Digital Micrometer	0.00005 in	0,001 mm

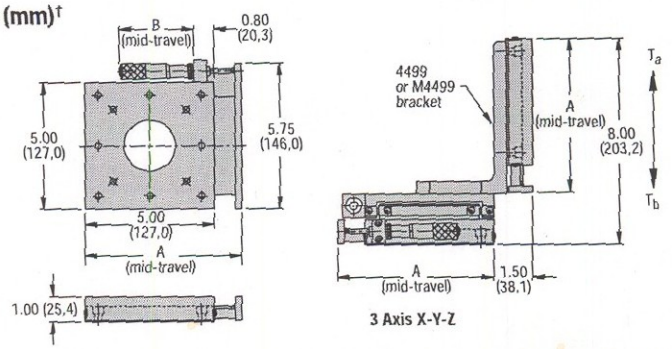
* Refer to linear slide component for moment load charts.

CAD Files...
Download from daedalpositioning.com

Center Drive inches (mm)†



Side Drive inches (mm)†



† Note: Values shown in parentheses are actual metric dimensions for metric models (not conversions).

Model Selection Guide

Description								Center Drive Models						Side Drive Models				
								Model Number			Dimensions			Model Number			Dimensions	
Type	Travel	Load Capacity	Mic Type	Aperture	Slide (Ref.)	Brg. Type	Unit Wt.	1 Axis (X)	2 Axis (XY)	3 Axis (XYZ)	A	B	C	1 Axis (X)	2 Axis (XY)	3 Axis (XYZ)	A	B
English	1.0 in	95 lb	English Mic	no	4410	Ball	2.7 lb	4411	4421	4431	9.28	4.28	1.47	4416	4426	4436	6.0	2.88
English	1.0 in	95 lb	English Mic	yes	4450	Ball	2.7 lb	4451	4461	4471	9.28	4.28	1.47	4456	4466	4476	6.0	2.88
English	1.0 in	95 lb	Metric Mic	no	4410	Ball	2.7 lb	4413	4423	4433	9.28	4.28	1.47	4418	4428	4438	6.0	2.88
English	1.0 in	95 lb	Metric Mic	yes	4450	Ball	2.7 lb	4453	4463	4473	9.28	4.28	1.47	4458	4468	4478	6.0	2.88
English	1.0 in	95 lb	Digital Mic	no	4410	Ball	3.1 lb	4410-DM	—	—	11.28	6.28	1.47	—	—	—	—	—
English	1.0 in	95 lb	Digital Mic	yes	4450	Ball	3.1 lb	4450-DM	—	—	11.28	6.28	1.47	—	—	—	—	—
English	1.0 in	120 lb	English Mic	no	CR4410	C/R	2.7 lb	CR4411	CR4421	CR4431	9.28	4.28	1.47	CR4416	CR4426	CR4436	6.0	2.88
English	1.0 in	120 lb	English Mic	yes	CR4450	C/R	2.7 lb	CR4451	CR4461	CR4471	9.28	4.28	1.47	CR4456	CR4466	CR4476	6.0	2.88
English	1.0 in	120 lb	Metric Mic	no	CR4410	C/R	2.7 lb	CR4413	CR4423	CR4433	9.28	4.28	1.47	CR4418	CR4428	CR4438	6.0	2.88
English	1.0 in	120 lb	Metric Mic	yes	CR4450	C/R	2.7 lb	CR4453	CR4463	CR4473	9.28	4.28	1.47	CR4458	CR4468	CR4478	6.0	2.88
English	1.0 in	120 lb	Digital Mic	no	CR4410	C/R	3.1 lb	CR4411-DM	—	—	11.28	6.28	1.47	—	—	—	—	—
English	1.0 in	120 lb	Digital Mic	yes	CR4450	C/R	3.1 lb	CR4451-DM	—	—	11.28	6.28	1.47	—	—	—	—	—
English	2.0 in	95 lb	English Mic	no	4410	Ball	2.7 lb	4412	4422	4432	11.28	6.28	2.00	4417	4427	4437	6.5	4.38
English	2.0 in	95 lb	English Mic	yes	4450	Ball	2.7 lb	4452	4462	4472	11.28	6.28	2.00	4457	4467	4477	6.5	4.38
English	2.0 in	95 lb	Metric Mic	no	4410	Ball	2.7 lb	4414	4424	4434	11.28	6.28	2.00	4419	4429	4439	6.5	4.38
English	2.0 in	95 lb	Metric Mic	yes	4450	Ball	2.7 lb	4454	4464	4474	11.28	6.28	2.00	4459	4469	4479	6.5	4.38
English	2.0 in	95 lb	Digital Mic	no	4410	Ball	3.1 lb	4412-DM	—	—	12.81	7.81	2.00	—	—	—	—	—
English	2.0 in	95 lb	Digital Mic	yes	4450	Ball	3.1 lb	4452-DM	—	—	12.81	7.81	2.00	—	—	—	—	—
English	2.0 in	120 lb	English Mic	no	CR4410	C/R	2.7 lb	CR4412	CR4422	CR4432	11.28	6.28	2.00	CR4417	CR4427	CR4437	6.5	4.38
English	2.0 in	120 lb	English Mic	yes	CR4450	C/R	2.7 lb	CR4452	CR4462	CR4472	11.28	6.28	2.00	CR4457	CR4467	CR4477	6.5	4.38
English	2.0 in	120 lb	Metric Mic	no	CR4410	C/R	2.7 lb	CR4414	CR4424	CR4434	11.28	6.28	2.00	CR4419	CR4429	CR4439	6.5	4.38
English	2.0 in	120 lb	Metric Mic	yes	CR4450	C/R	3.1 lb	CR4454	CR4464	CR4474	11.28	6.28	2.00	CR4459	CR4469	CR4479	6.5	4.38
English	2.0 in	120 lb	Digital Mic	no	CR4410	C/R	3.1 lb	CR4412-DM	—	—	12.81	7.81	2.00	—	—	—	—	—
English	2.0 in	120 lb	Digital Mic	yes	CR4450	C/R	3.1 lb	CR4452-DM	—	—	12.81	7.81	2.00	—	—	—	—	—
Metric	25 mm	43 kg	Metric Mic	no	4410	Ball	1,2 kg	M4413	M4423	M4433	236	109	38	M4418	M4428	M4438	152	73
Metric	25 mm	43 kg	Metric Mic	yes	4450	Ball	1,2 kg	M4453	M4463	M4473	236	109	38	M4458	M4468	M4478	152	73
Metric	50 mm	43 kg	Metric Mic	no	4410	Ball	1,2 kg	M4414	M4424	M4434	286	159	50	M4419	M4429	M4439	165	111
Metric	50 mm	43 kg	Metric Mic	yes	4450	Ball	1,2 kg	M4454	M4464	M4474	286	159	50	M4459	M4469	M4479	165	111
Metric	25 mm	43 kg	Digital Mic	no	4410	Ball	1,4 kg	M4410-DM	—	—	286	159	50	—	—	—	—	—
Metric	25 mm	43 kg	Digital Mic	yes	4450	Ball	1,4 kg	M4450-DM	—	—	286	159	50	—	—	—	—	—
Metric	50 mm	43 kg	Digital Mic	no	4410	Ball	1,4 kg	M4412-DM	—	—	—	—	—	—	—	—	—	—
Metric	50 mm	43 kg	Digital Mic	yes	4450	Ball	1,4 kg	M4452-DM	—	—	—	—	—	—	—	—	—	—

NOTE: For the optional position lock, add "-L" to the desired part number when ordering.
Available on all models except the digital micrometer (-DM).