

LowBoy Servonut Axis

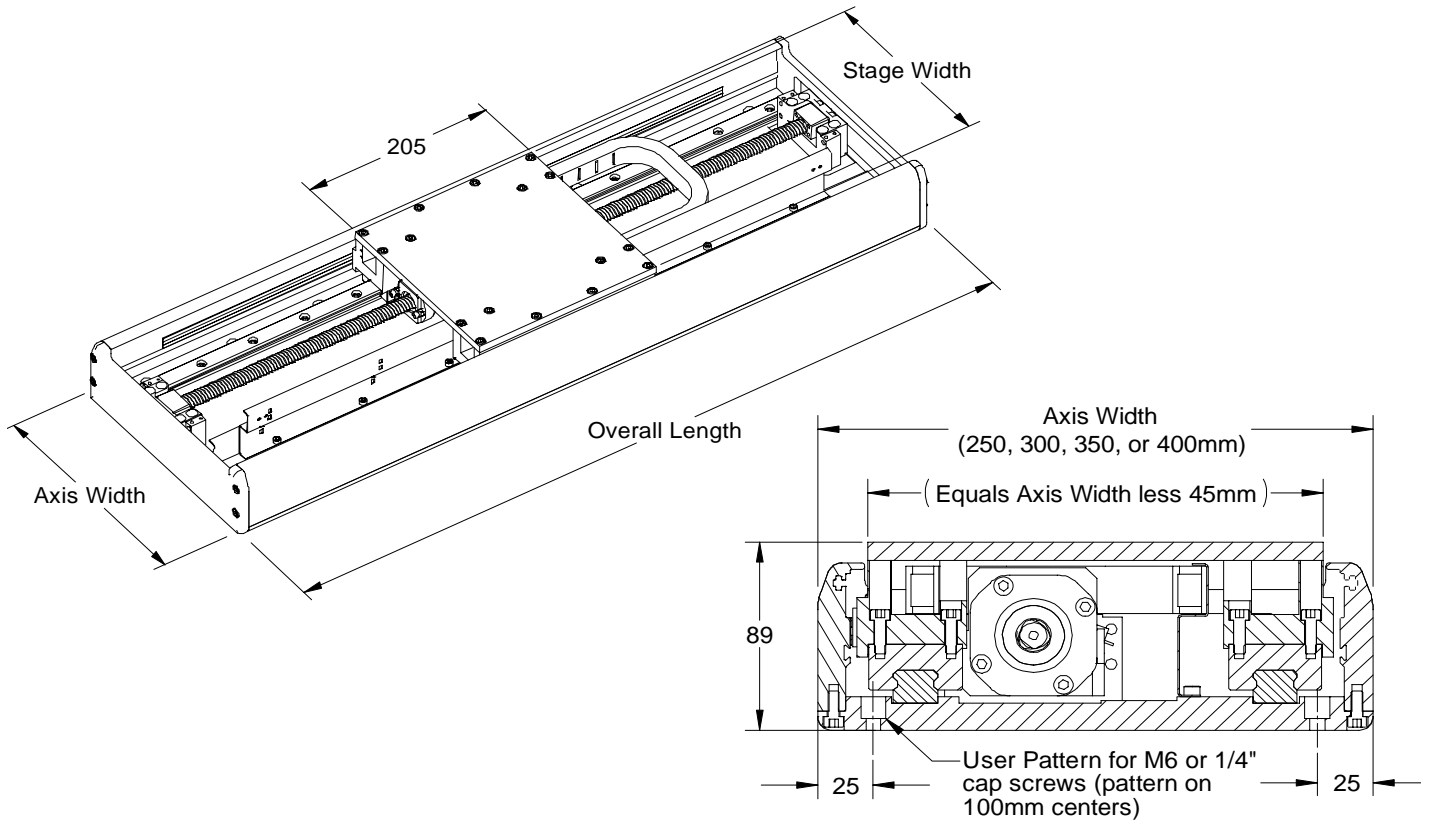
Full-Featured Scalable-Width Precision Driven-Nut Axis



Bell-Everman, Inc.

82 Aero Camino, Goleta, CA (805) 685-1029

www.bell-everman.com



Ordering Part Number: LBS-LENGTH-WIDTH-LEAD-MOTOR

Basic Designator	Length Designator	Width Designator	Lead Designator	Motor Designator	Travel * mm	Overall Length mm	Maximum Speed ** m/s			
							5mm Lead	10mm Lead	16mm Lead	40mm Lead
LBS	340	250, 300, 350 or 400	5,10,16, or 20	01, 02, or 03	100	380	0.33	0.67	1.07	2.67
	400				160	440	0.33	0.67	1.07	2.67
	460				220	500	0.33	0.67	1.07	2.67
	520				280	560	0.33	0.67	1.07	2.67
	580				340	620	0.33	0.67	1.07	2.67
	640				400	680	0.33	0.67	1.07	2.54
	700				460	740	0.33	0.67	1.02	2.11
	760				520	800	0.33	0.67	0.86	1.78
	820				580	860	0.33	0.67	0.73	1.53
	880				640	920	0.33	0.64	0.64	1.32
	940	700	980	0.33	0.56	0.56	1.15			
	1000	760	1040	0.33	0.49	0.49	1.02			
	1060	820	1100	0.33	0.43	0.43	0.90			
	1120	880	1160	0.33	0.39	0.39	0.81			
	1180	940	1220	0.33	0.35	0.35	0.73			
	1240	1000	1280	0.32	0.32	0.32	0.66			
	1300	1060	1340	0.29	0.29	0.29	0.60			
	1360	1120	1400	0.26	0.26	0.26	0.54			
	1420	1180	1460	0.24	0.24	0.24	0.50			
	1480	1240	1520	0.22	0.22	0.22	0.46			
1540	1300	1580	0.20	0.20	0.20	0.42				
1600	1360	1640	0.19	0.19	0.19	0.39				

Typical Axial Force

Lead mm	Motor	Force N	
		Peak	Cont.
5	01	5150	830
5	02	6000	1200
5	03	6000	1570
10	01	2570	410
10	02	4230	600
10	03	4330	780
16	01	1600	260
16	02	2640	370
16	03	2700	490
40	01	640	105
40	02	1050	150
40	03	1080	195

*Without rotary encoder (subtract 12mm for encoder option)

**Maximum speed is the minimum of either the critical speed or the speed with the motor running at 4000rpm (the critical speed only applies near mid-travel and can be safely exceeded in almost all cases due to the precision of the Servonut)

Specify linear encoder option (0.1 to 1 µm resolution available) if not using the rotary encoder option

Specify with or without brake option (pneumatic or electric), and integrated limits

Longer lengths and wider widths are available

See the LowBoy Linear spec for an identical stage using a linear motor instead of the Servonut