

Motor-less Single Axis Actuator Basic model Low-Profile type LBFS

Contributes to equipment downsizing with a structure that minimizes overall height.

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Specification

Model		LBFS03			LBFS04			LBFS05				LBFS06		
Compatible Motor (W)		30			50			100				100		
Drive System (Ball screw)		Φ6 Rolled C7			Φ10 Rolled C7			Φ10 Rolled C7				Φ10 Rolled C7		
Lead (mm)		8	4	2	12	6	2	20	12	6	2	20	12	6
Maximum Speed (mm/sec)		480	240	100	720	360	120	1200	800	400	120	1333	800	400
Maximum Payload (kg)	Horizontal	10	10	13	12	20	25	10	22	25	30	18	30	45
	Vertical	2	4	5	3	5	8	3	4	6	10	6	9	12
Rated Thrust (N) ^{*3}		88	143	352	71	141	424	85	142	285	854	85	142	285
Stroke (mm)		50 - 300			50 - 500			50 - 800				50 - 800		

Model		LBFS03			LBFS04				LBFS05				LBFS06					
Repeatability (±mm) ^{*1}		±0.005			±0.005				±0.005				±0.005					
Static Permissible Moment (My, Mp, Mr)		13/13/15			47/47/64				73/73/115				99/99/176					
Frame Width		30			40				52				60					
Slider Top Height		30			40				40				44					
Maximum Body Cross-section (mm)		W42.3 x H35			W50xH42.5				W58 x H46				W65xH43					
Overall length (mm)	Straight	ST +224.5			ST +286				ST +288.5				ST +317					
	Folding	ST +143			ST +203.5				ST +195				ST +237.5					
Critical Speed		—			—				700st-		600st-		650st-		550st-			
Degree of Cleanliness ^{*1}		Equivalent to ISO Class 4 (ISO 14644-1)																
Model		LBFS07			LBFS08						LBFS10							
Compatible Motor (W)		100			200			400			200				400			
Drive System (Ball screw)		Φ12 Rolled C7			Φ14 Rolled C7 ^{*2}													
Lead (mm)		20	10	5	24	12	6	36	24	12	6	24	12	6	36	24	12	6
Maximum Speed (mm/sec)		1333	666	333	1440	720	360	1800	1440	720	360	1440	720	360	1800	1440	720	360
Maximum Payload (kg)	Horizontal	25	45	85	40	80	100	35	50	95	115	40	80	100	35	50	95	115
	Vertical	4	10	16	8	18	30	4	15	28	37	8	18	30	4	15	28	37

Model		LBFS07			LBFS08							LBFS10						
Rated Thrust (N) ^{*3}		84	169	339	142	284	569	189	289	578	1156	142	284	569	189	289	578	1156
Stroke (mm)		50 - 1050			50 - 1250													
Repeatability (\pm mm) ^{*1}		± 0.005			± 0.005													
Static Permissible Moment (My, Mp, Mr)		130/130/238			249/249/393							350/350/626						
Frame Width		70			80							100						
Slider Top Height		48			56							60						
Maximum Body Cross-section (mm)		W70xH48			W80 x H62.5							W100xH62.5						
Overall length (mm)	Straight	ST +315.5			ST +375.5							ST +372.5						
	Folding	ST +224			ST +291.5							ST +278.5						
Critical Speed		550st -			650st or more													
Degree of Cleanliness ^{*1}		Equivalent to ISO Class 4 (ISO 14644-1)																

*1: Precautions regarding bending: Repeatability is ± 0.01 .

*2: Precautions regarding bending: ISO CLASS 4 excludes bending