DLM SERIES



Miniature Rail Thruster Slide | Features and Benefits | How To Order

Features:

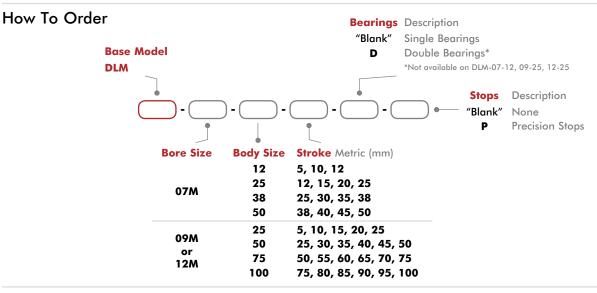
- Compact high reliability bearing design
- Excellent part position repeatability
- Double bearings **-D** for longer strokes, greater load and moment capacity
- Internal Delrin[®] extend and retract stops
 P for increased repeatability
- Sense up to 8 positions with 4 adjustable magneto resistive sensors
- Multiple tapped air ports on each side, rear and bottom of body
- Thru-body mounting and DIRECTCONNECT[™] thru tapped and dowel mounting, on tool plate and body
- Viton[®] seals for operation in high temperature environments

Applications:

- Precision applications
- Small parts handling



(USB key shown for scale)



Accessories

Sensor Accessories	Model Numbers	Part Number	Qty/Unit
PNP Magneto Resistive Sensor Short Barrel (with Qk. Disc.)*	All Models	OHSP-017	1-4
NPN Magneto Resistive Sensor Short Barrel (with Qk. Disc.)*	All Models	OHSN-017	1-4
PNP Magneto Resistive Sensor 90° Barrel (with Qk. Disc.)*	All Models	OHSP-011	1-4
NPN Magneto Resistive Sensor 90° Barrel (with Qk. Disc.)*	All Models	OHSN-011	1-4
Quick Disconnect 2 Meter Cable Length*	All Models	CABL-010	1-4
Quick Disconnect 5 Meter Cable Length*	All Models	CABL-013	1-4
Pneumatic Accessories	Model Numbers	Part Number	Qty/Unit
Adjustable Flow Control	All Models	VLFL-008	1-2
Seal Kits	See Datasheets		

* Sensor and cable sold separately.



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Miniature Rail Thruster Slide | Technical Specifications

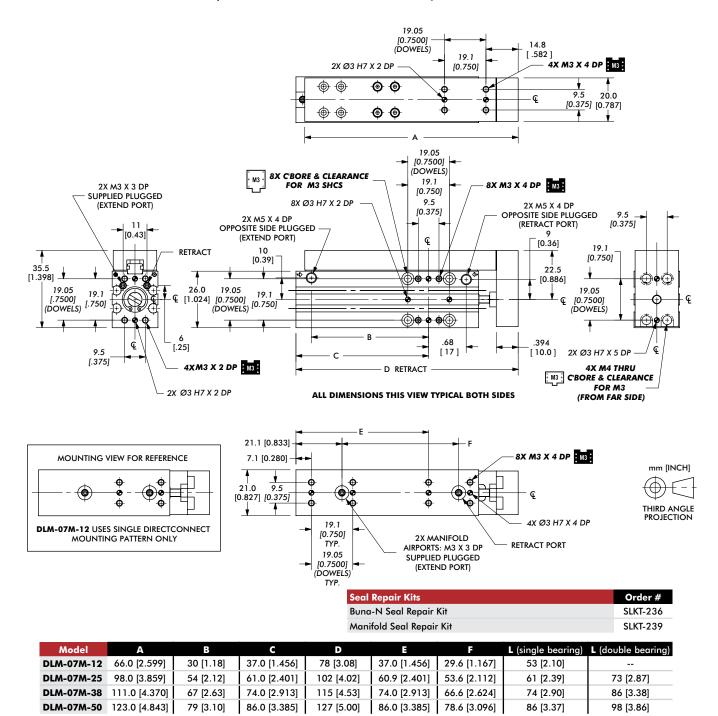
Specifications	Units	DLM-07M-12	DLM-07M-25	DLM-07M-38	DLM-07M-50	
Thrust Force F @ 7 bar [100 psi]	N [lbs]		66	[15]		
Max. Stroke	mm [in]	12 [0.50]	25 [1.00]	38 [1.50]	50 [2.00]	
Stroke Reduction (return)	mm [in]	5 [0.19]				
Weight	kg [lbs]	0.13 [0.28]	0.16 [0.35]	0.20 [0.43]	0.23 [0.50]	
Max. Payload W	kg [lbs]	,	0.45	[1.0]		
Max. Payload W (-P option)	kg [lbs]		0.23	[0.5]		
Cylinder Bore Ø	mm [in]		0.11 [0.437]		
Temperature Range	°C [°F]		-35°~80° [-30°~180°]		
Actuation (per 25mm of travel)	sec		0.	07		
Linear Accuracy (per 25mm of travel)	mm [in]		±0.005 [±0.0001]		
Repeatability (-P option)	mm [in]		±0.08 [±0.003]		
Pressure Range	bar [psi]		1.4-7 [2	20-100]		
Valve to Actuate Double Acting			4-way, 2	-position		
Specifications	Units	DLM-09M-25	DLM-09M-50	DLM-09M-75	DLM-09M-100	
Thrust Force F @ 7 bar [100 psi]	N [lbs]		138 N	[31 lbs]		
Max. Stroke	mm [in]	25 [1.00]	50 [2.00]	75 [3.00]	100 [4.00]	
Stroke Reduction (return)	mm [in]		5 [0	.19]		
Weight	kg [lbs]	0.49 [1.08]	0.64 [1.41]	0.81 [1.78]	0.97 [2.13]	
Max. Payload W	kg [lbs]	0.90 [2.0]				
Max. Payload W (-P option)	kg [lbs]	0.45 [1.0]				
Cylinder Bore Ø	mm [in]	16 [0.630]				
Temperature Range	°C [°F]	-35°~80° [-30°~180°]				
Actuation (per 25mm of travel)	sec	0.10				
Linear Accuracy (per 25mm of travel)	mm [in]	±0.005 [±0.0001]				
Repeatability (-P option)	mm [in]	±0.08 [±0.003]				
Pressure Range	bar [psi]	1.4-7 [20-100]				
Valve to Actuate Double Acting		4-way, 2-position				
Specifications	Units	DLM-12M-25	DLM-12M-50	DLM-12M-75	DLM-12M-100	
Thrust Force F @ 7 bar [100 psi]	N [lbs]		230	[51]		
Max. Stroke	mm [in]	25 [1.00]	50 [2.00]	75 [3.00]	100 [4.00]	
Stroke Reduction (return)	mm [in]		5 [0	.19]		
Weight	kg [lbs]	0.54 [1.18]	0.65 [1.43]	1.82 [1.80]	1.02 [2.25]	
Max. Payload W	kg [lbs]	1.81 [4.0]				
Max. Payload W (-P option)	kg [lbs]	0.90 [2.0]				
Cylinder Bore Ø	mm [in]	22 [0.813]				
Temperature Range	°C [°F]	-35°~80° [-30°~180°]				
Actuation (per 25mm of travel)	sec	0.14				
Linear Accuracy (per 25mm of travel)	mm [in]	±0.005 [±0.0001]				
Repeatability (-P option)	mm [in]	±0.08 [±0.003]				
Pressure Range	bar [psi]	1.4-7 [20-100]				
Valve to Actuate Double Acting				-position		

Dimensions and technical information are subject to change without notice





Miniature Rail Thruster Slide | Dimensions and Technical Specifications

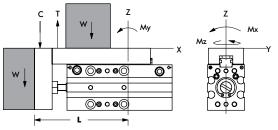


Dimensions in mm [in]

Loading Information

Forces shown for single bearing units. Values 2X for double bearings -D option.

DLM-07	Static
Maximum Tensile T	490 N [110 lbs]
Maximum Compressive C	490 N [110 lbs]
Maximum Moment M _X	5.1 Nm [45 in-lbs]
Maximum Moment My	3.2 Nm [28 in-lbs]
Maximum Payload W	3.2 Nm [28 in-lbs]
Distance to Bearing Centerline	L (see chart above)

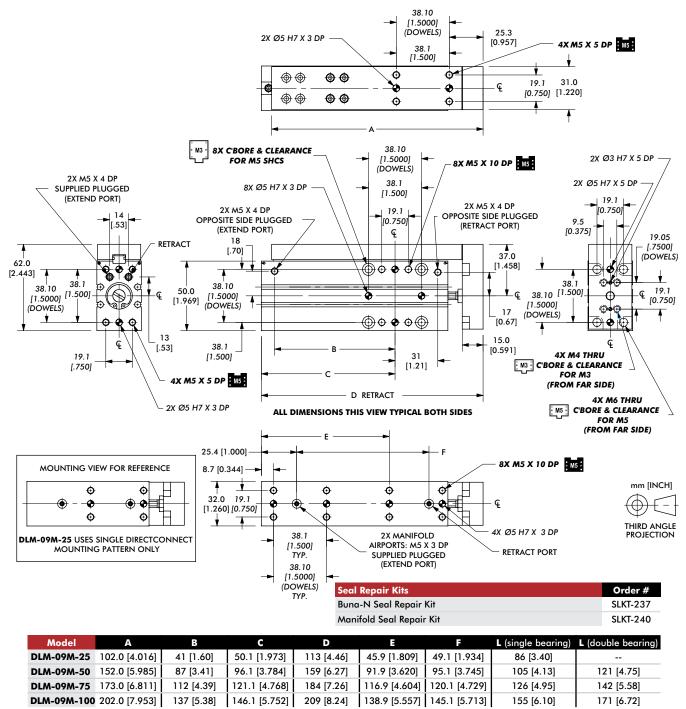


Flow Controls are recommended for all applications



DLM-09M

Miniature Rail Thruster Slide | Dimensions and Technical Specifications

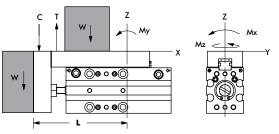


Dimensions in mm [in]

Loading Information

Forces shown for single bearing units. Values 2X for double bearings -D option.

DLM-09	Static
Maximum Tensile T	735 N [165 lbs]
Maximum Compressive C	735 N [165 lbs]
Maximum Moment M_X	9.6 Nm [84 in-lbs]
Maximum Moment My	6.4 Nm [56 in-lbs]
Maximum Payload W	6.4 Nm [56 in-lbs]
Distance to Bearing Centerline	L (see chart above)



Flow Controls are recommended for all applications

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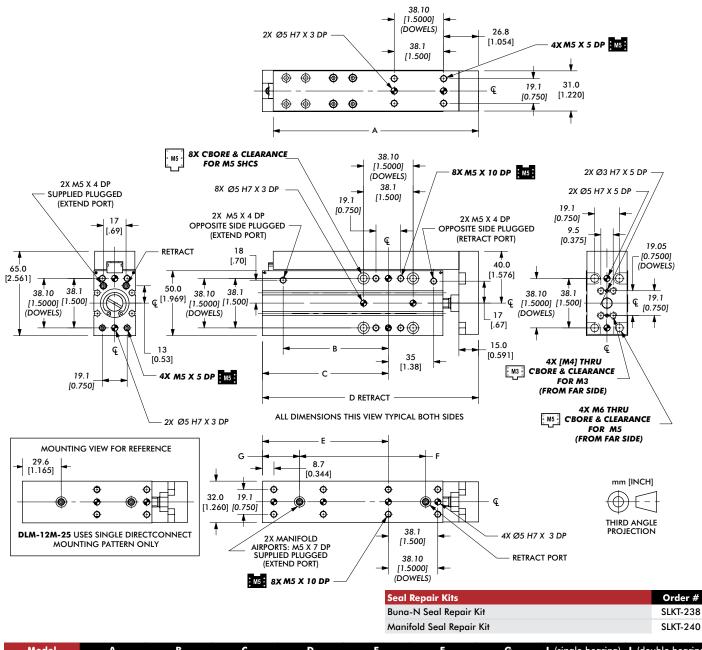
GR-LIN | 40



DLM-12M



Miniature Rail Thruster Slide | Dimensions and Technical Specifications

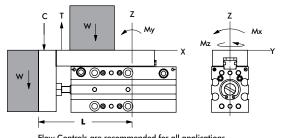


Model	Α	В	С	D	E	F	G	L (single bearing)	L (double bearing)
DLM-12M-25	105.0 [4.134]	41 [1.62]	56.9 [2.242]	126 [4.97]	56.9 [2.242]	53.5 [2.108]	29.6 [1.165]	88 [3.45]	
DLM-12M-50	158.0 [6.221]	81 [3.19]	96.9 [3.816]	166 [6.55]	96.9 [3.816]	97.1 [3.824]		104 [4.10]	122 [4.82]
DLM-12M-75	186.0 [7.323]	108 [4.25]	123.9 [4.879]	193 [7.61]	123.9 [4.879]	124.1 [4.887]	28.6 [1.125]	132 [5.21]	150 [5.92]
DLM-12M-100	208.0 [8.189]	133 [5.24]	148.9 [5.864]	218 [8.60]	148.9 [5.864]	149.1 [5.872]		154 [6.07]	172 [6.79]
Dimensions in mm [in]									

Loading Information

Forces shown for single bearing units. Values 2X for double bearings -D option.

DLM-12M	Static
Maximum Tensile T	1214 N [273 lbs]
Maximum Compressive C	1214 N [273 lbs]
Maximum Moment M_X	20.6 Nm [182 in-lbs]
Maximum Moment My	11.8 Nm [104 in-lbs]
Maximum Payload W	11.8 Nm [104 in-lbs]
Distance to Bearing Centerline	L (see chart above)



Flow Controls are recommended for all applications

