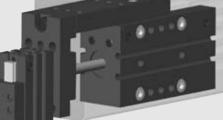
Mini Ball Rail Slides DLM DIRECTCONNECT Modular Series



- Multiple Air Port Positions: Tapped air ports on each side, rear and bottom standard.
- Manifold Air Porting: Bottom air ports can be manifold O-ring sealed.
- **Stroke Adjustments:** Retract and extend adjustments for precise positioning with infinite stroke adjustability.
- Double Bearing Option: Longer strokes available with double bearings for greater load and moment capacity.



- Multiple Mounting Locations: DIRECTCONNECT[™] tapped and dowel mounting, on tool plate and body.
- Thru Mounting: Both side thru-body mounting. DIRECTCONNECT[™] thru tapped and dowel mounting, on tool plate and body.
- **Sensing:** Adjustable Magnetoresistive Sensors thru full stroke range. Can sense up to 8 positions.
- Precision Hard Stop Option: Delrin[®] extend and retract internal stops available as an option for increased repeatability.

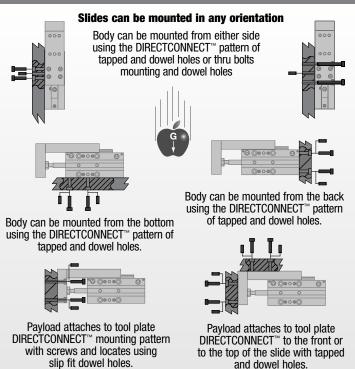
Mounting Information:

design for new projects.

Note: The new DLM series replaces our MPS

product line. The MPS series information is still available on our website and are available for

sale. We encourage you to consider the new DLM



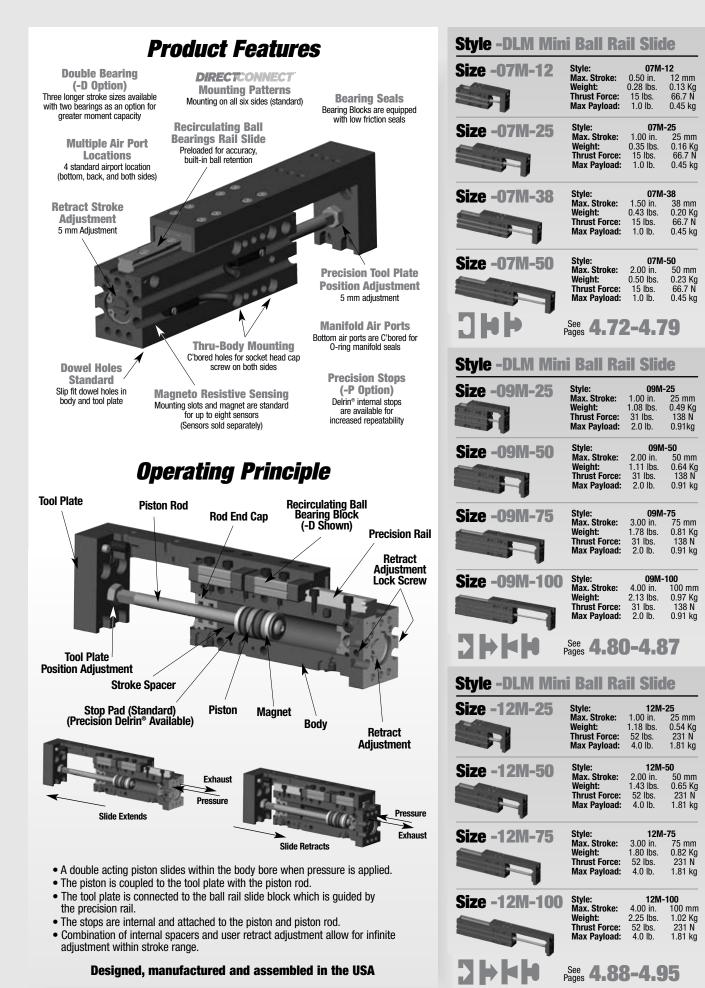
Technical Specifications:

Pneumatic Specifications Pressure Operating Range Cylinder Type Dynamic Seals Valve Required to Operate	Imperial Metric 20-100 psi 1.4-7 bar Double Acting Internally Lubricated Buna-N 4-way, 2-position	
Air Quality Requirements Air Filtration Air Lubrication Air Humidity	40 Micron or Better Not Necessary* Low Moisture Content (dry)	
Temperature Operating Ra Buna-N Seals (standard)	nge -30°~180° F -35°~80° C	
Maintenance SpecificationsExpected LifeNormal Applicationw/ Preventative MaintenanceField RepairableSeal Repair Kits AvailableYes		
Application RestrictionsMachining operations gene	rating chips	

Environments with loose particulate

*Addition of lubrication will greatly increase service life.

Please see back cover for DE-STA-CO Global Locations. www.destaco.com

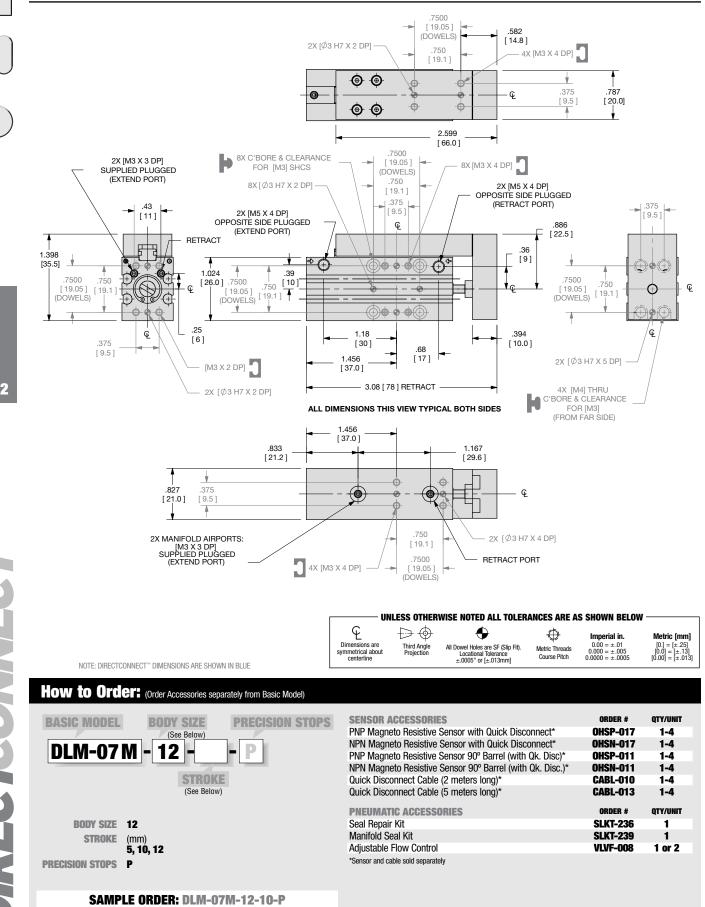


Please see back cover for DE-STA-CO Global Locations. www.destaco.com

SERIES 4.71







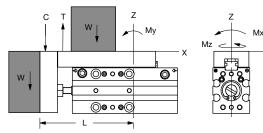
Ex: DLM-07M Mini Ball Rail Slide, -12 Body Size, 10mm Stroke, Precision Stops

4.72



Specifications	DLM-07M	-12
Thrust Force F @ 100 psi, 7 bar	15 lbs.	66 N
Max. Stroke	0.50 in.	12 mm
Stroke Reduction (return)	0.19 in.	5 mm
Weight	0.28 lbs.	0.13 Kg
Maximum Payload W	1.0 lbs.	0.45 Kg
Maximum Payload (-P Option)	0.5 lbs.	0.23 Kg
Cylinder Bore Ø	0.437 in.	11 mm
Temperature Range	-30°~180° F	-35°~80° C
Actuation per 25mm of travel	0.07 sec.	
Linear accuracy per 25mm of travel	±0.0001 in.	±0.005 mm
Repeatability (-P Option)	±0.003 in.	±0.08 mm
Pressure Range	20-100 psi	1.4-7 bar
Valve required to actuate	4-way, 2-p	osition

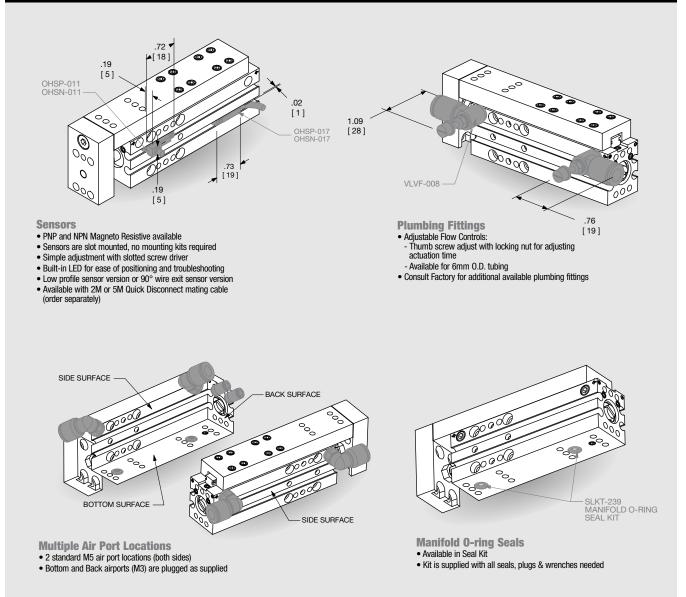
MINI BALL RAIL SLIDE DLM-07M-12 DIRECTCONNECT MODULAR SERIES



Flow Controls are recommended for nearly all applications

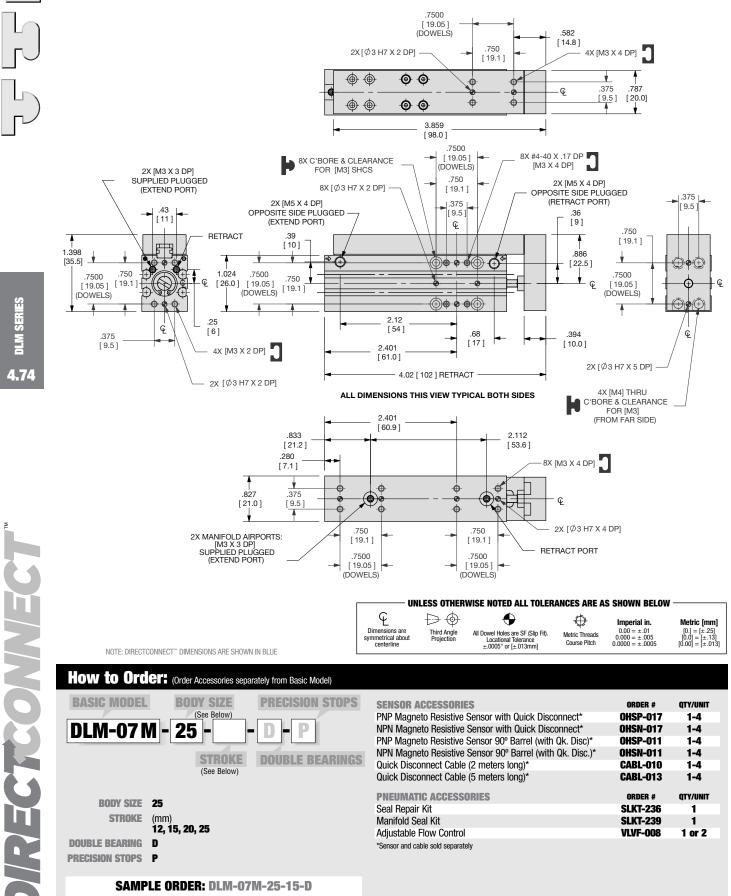
Loading Capacity DLM-07M-12	Static	Dynamic
Maximum Tensile T	110 lbs. [490 N]	67 lbs. [301 N]
Maximum Compressive C	110 lbs. [490 N]	67 lbs. [301 N]
Maximum Moment Mx	45 in1bs. [5.1 Nm]	27 inIbs. [3.1 Nm]
Maximum Moment My	28 in1bs. [3.2 Nm]	16 inIbs. [1.9 Nm]
Maximum Moment Mz	28 in1bs. [3.2 Nm]	16 inIbs. [1.9 Nm]
Distance to Bearing Centerline ${\rm L}$	2.10 in.	[53 mm]

Accessory Mounting Technical Data







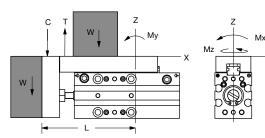


Ex: DLM-07M Mini Ball Rail Slide, -25 Body Size, 15mm Stroke, Double Ball Bearings



Specifications	DLM-07N	-25
Thrust Force F @ 100 psi, 7 bar	15 lbs.	66 N
Max. Stroke	1.00 in.	25 mm
Stroke Reduction (return)	0.19 in.	5 mm
Weight	0.35 lbs.	0.16 Kg
Maximum Payload W	1.0 lbs.	0.45 Kg
Maximum Payload (-P Option)	0.5 lbs.	0.23 Kg
Cylinder Bore Ø	0.437 in.	11 mm
Temperature Range	-30°~180° F	-35°~80° C
Actuation per 25mm of travel	0.07 sec.	
Linear accuracy per 25mm of travel	±0.0001 in.	±0.005 mm
Repeatability (-P Option)	±0.003 in.	±0.08 mm
Pressure Range	20-100 psi	1.4-7 bar
Valve required to actuate	4-way, 2-p	osition

MINI BALL RAIL SLIDE DLM-07M-25 DIRECTCONNECT MODULAR SERIES



Flow Controls are recommended for nearly all applications

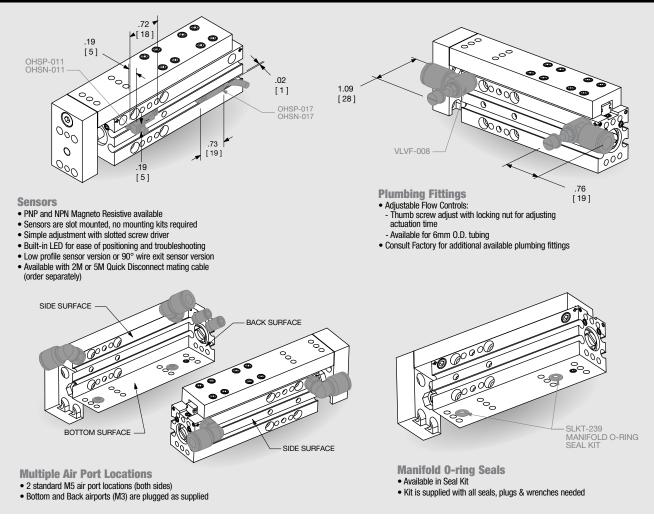
Loading Capacity DLM-07M-25	Static	Dynamic
Maximum Tensile T	110 lbs. [490 N]	67 lbs. [301 N]
Maximum Compressive C	110 lbs. [490 N]	67 lbs. [301 N]
Maximum Moment Mx	45 in1bs. [5.1 Nm]	27 inIbs. [3.1 Nm]
Maximum Moment My	28 in1bs. [3.2 Nm]	16 inIbs. [1.9 Nm]
Maximum Moment Mz	28 in1bs. [3.2 Nm]	16 inIbs. [1.9 Nm]
Distance to Bearing Centerline L DLM-07M-25-D	2.39 in. [61 mm]
Maximum Tensile T	220 lbs. [980 N]	135 lbs. [602 N]
Maximum Compressive C	220 lbs. [980 N]	135 lbs. [602 N]
Maximum Moment M _X	90 in1bs. [10.2 Nm]	54 in1bs. [6.2 Nm]
Maximum Moment My	56 in1bs. [6.4 Nm]	33 in1bs. [3.8 Nm]
Maximum Moment Mz	56 in1bs. [6.4 Nm]	33 in1bs. [3.8 Nm]

2.87 in. [73 mm]

DIRECTCONNI

S H H H

Accessory Mounting Technical Data

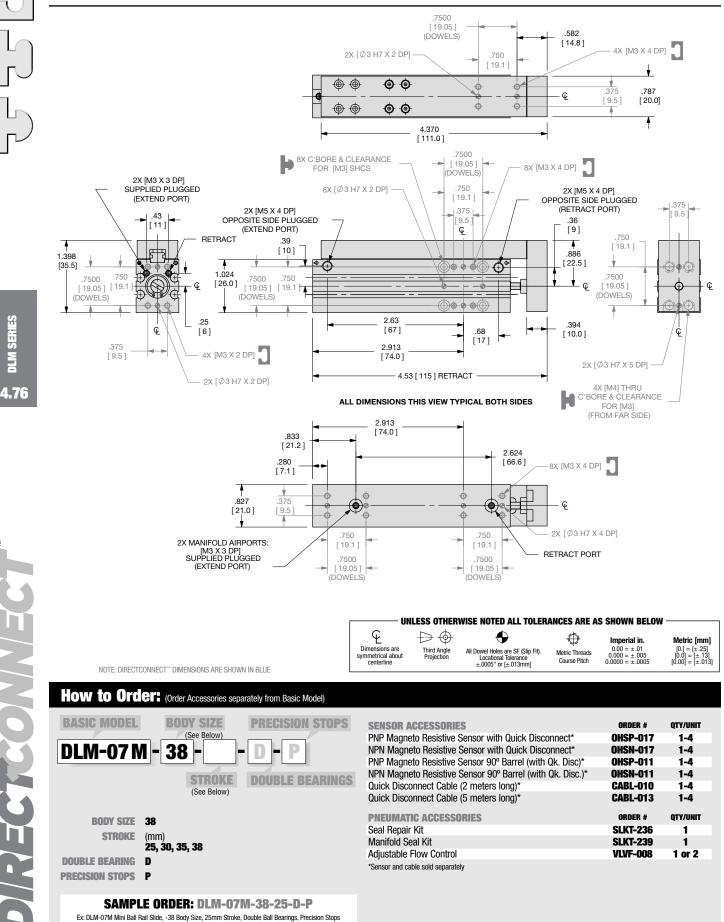


Distance to Bearing Centerline L

Please see back cover for DE-STA-CO Global Locations. www.destaco.com





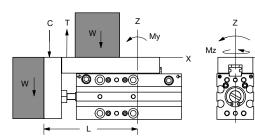


NRECTCONNE



Specifications	DLM-07N	1-38
Thrust Force F @ 100 psi, 7 bar	15 lbs.	66 N
Max. Stroke	1.50 in.	38 mm
Stroke Reduction (return)	0.19 in.	5 mm
Weight	0.43 lbs.	0.20 Kg
Maximum Payload W	1.0 lbs.	0.45 Kg
Maximum Payload (-P Option)	0.5 lbs.	0.23 Kg
Cylinder Bore Ø	0.437 in.	11 mm
Temperature Range	-30°~180° F	-35°~80° C
Actuation per 25mm of travel	0.07 sec.	
Linear accuracy per 25mm of travel	±0.0001 in.	±0.005 mm
Repeatability (-P Option)	±0.003 in.	±0.08 mm
Pressure Range	20-100 psi	1.4-7 bar
Valve required to actuate	4-way, 2-p	osition

MINI BALL RAIL SLIDE DLM-07M-38 DIRECTCONNECT MODULAR SERIES





Мx

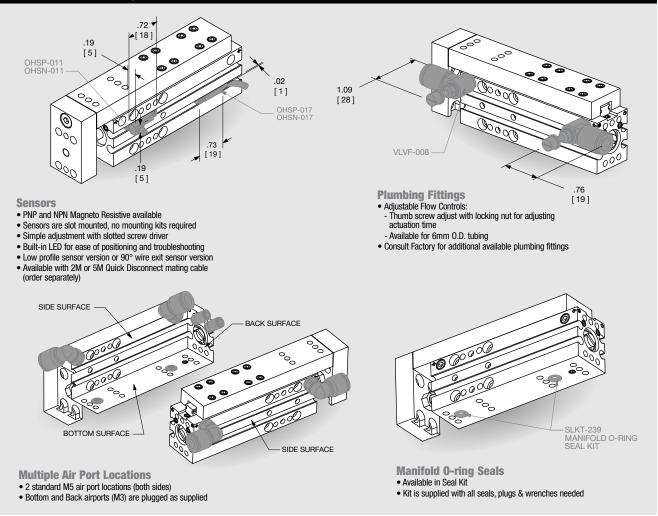
Flow Controls are recommended for nearly all applications

Loading Capacity DLM-07M-38	Static	Dynamic
Maximum Tensile T	110 lbs. [490 N]	67 lbs. [301 N]
Maximum Compressive C	110 lbs. [490 N]	67 lbs. [301 N]
Maximum Moment M _X	45 in1bs. [5.1 Nm]	27 in1bs. [3.1 Nm]
Maximum Moment My	28 in1bs. [3.2 Nm]	16 inIbs. [1.9 Nm]
Maximum Moment Mz	28 in1bs. [3.2 Nm]	16 inIbs. [1.9 Nm]
Distance to Bearing Centerline L	2.90 in. [7	74 mm]

DLM-07M-38-D

Maximum Tensile T	220 lbs. [980 N]	135 lbs. [602 N]
Maximum Compressive C	220 lbs. [980 N]	135 lbs. [602 N]
Maximum Moment M x	90 in1bs. [10.2 Nm]	54 in1bs. [6.2 Nm]
Maximum Moment My	56 in1bs. [6.4 Nm]	33 in1bs. [3.8 Nm]
Maximum Moment Mz	56 in1bs. [6.4 Nm]	33 in1bs. [3.8 Nm]
Distance to Bearing Centerline L	3.38 in. [86 mm]	

Accessory Mounting Technical Data



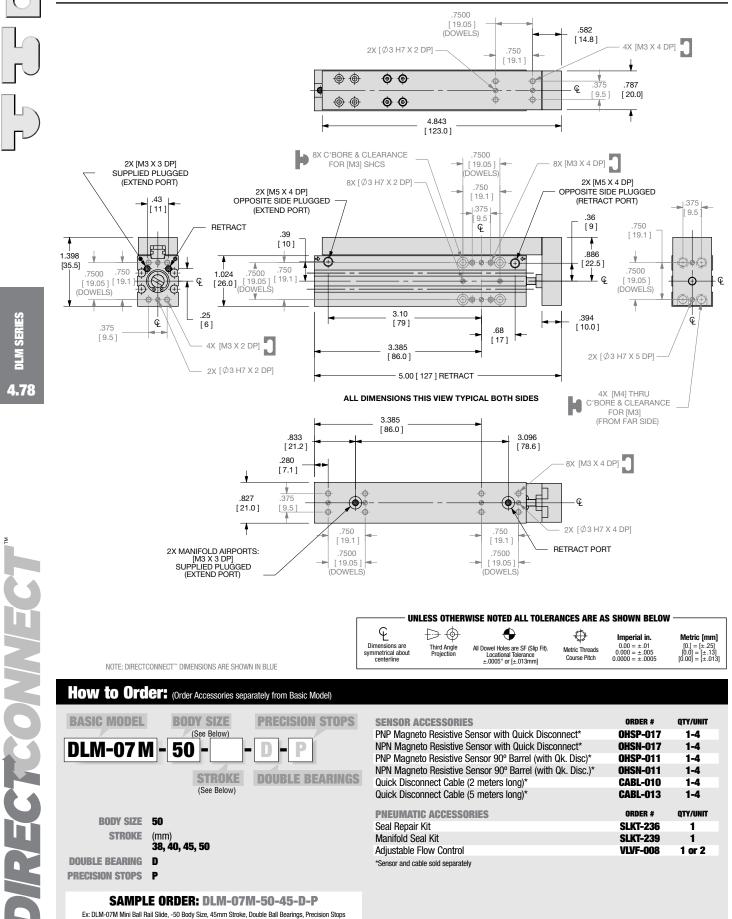
DLM SERIES

DIRECTCONNE

Please see back cover for DE-STA-CO Global Locations. www.destaco.com WWW.COMOSO.COM





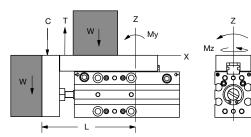


Please see back cover for DE-STA-CO Global Locations. www.destaco.com



Specifications	DLM-07M	-50
Thrust Force F @ 100 psi, 7 bar	15 lbs.	66 N
Max. Stroke	2.00 in.	50 mm
Stroke Reduction (return)	0.19 in.	5 mm
Weight	0.50 lbs.	0.23 Kg
Maximum Payload W	1.0 lbs.	0.45 Kg
Maximum Payload (-P Option)	0.5 lbs.	0.23 Kg
Cylinder Bore Ø	0.437 in.	11 mm
Temperature Range:	-30°~180° F	-35°~80° C
Actuation per 25mm of travel	0.07 sec.	
Linear accuracy per 25mm of travel	±0.0001 in.	±0.005 mm
Repeatability (-P Option)	±0.003 in.	±0.08 mm
Pressure Range	20-100 psi	1.4-7 bar
Valve required to actuate	4-way, 2-p	osition

MINI BALL RAIL SLIDE DLM-07M-50 DIRECTCONNECT MODULAR SERIES



Мx

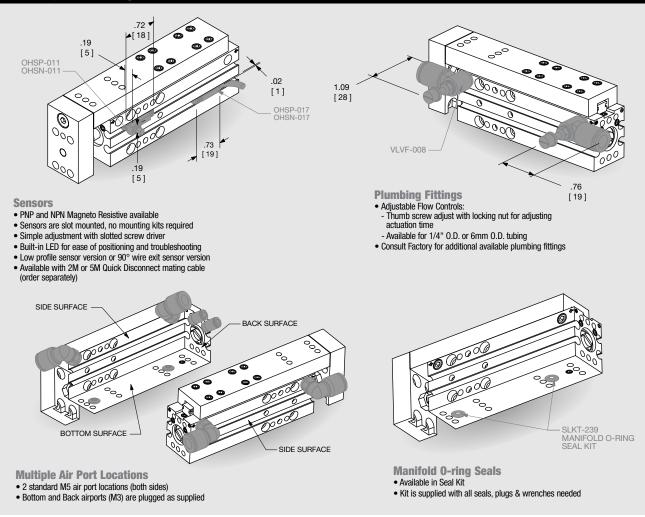
Flow Controls are recommended for nearly all applications

Loading Capacity DLM-07M-50	Static	Dynamic
Maximum Tensile T	110 lbs. [490 N]	67 lbs. [301 N]
Maximum Compressive C	110 lbs. [490 N]	67 lbs. [301 N]
Maximum Moment Mx	45 in1bs. [5.1 Nm]	27 in1bs. [3.1 Nm]
Maximum Moment My	28 in1bs. [3.2 Nm]	16 inIbs. [1.9 Nm]
Maximum Moment Mz	28 in1bs. [3.2 Nm]	16 inIbs. [1.9 Nm]
Distance to Bearing Centerline L	3.37 in. [86 mm]

DLM-07M-50-D

Maximum Tensile T	220 lbs. [980 N]	135 lbs. [602 N]
Maximum Compressive C	220 lbs. [980 N]	135 lbs. [602 N]
Maximum Moment M x	90 in1bs. [10.2 Nm]	54 in1bs. [6.2 Nm]
Maximum Moment My	56 in1bs. [6.4 Nm]	33 in1bs. [3.8 Nm]
Maximum Moment Mz	56 in1bs. [6.4 Nm]	33 in1bs. [3.8 Nm]
Distance to Bearing Centerline L	3.86 in. [98 mm]	

Accessory Mounting Technical Data



Please see back cover for DE-STA-CO Global Locations. www.destaco.com

DIRECTCONNECT

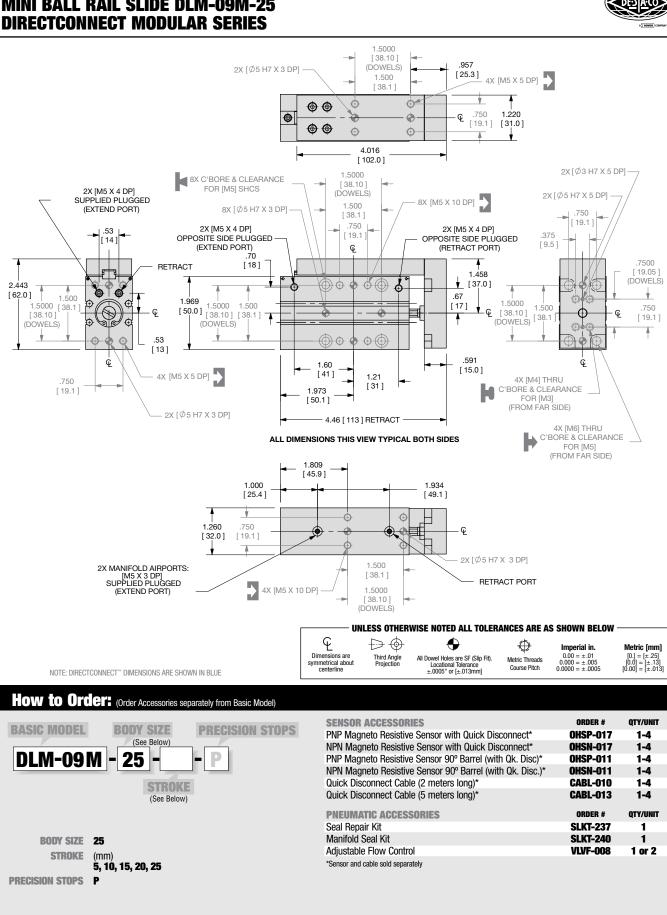


ŝ

DLM SER

4.80

NRECTCONNE

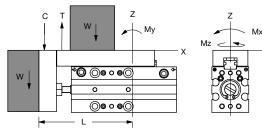


SAMPLE ORDER: DLM-09M-25-15-P Ex: DLM-09M Mini Ball Rail Slide, -25 Body Size, 15mm Stroke, Precision Stops



Specifications	DLM-09M	-25
Thrust Force F @ 100 psi, 7 bar	31 lbs.	138 N
Max. Stroke	1.00 in.	25 mm
Stroke Reduction (return)	0.19 in.	5 mm
Weight	1.08 lbs.	0.49 Kg
Maximum Payload W	2.0 lbs.	0.90 Kg
Maximum Payload (-P Option)	1.0 lbs.	0.45 Kg
Cylinder Bore Ø	0.630 in.	16 mm
Temperature Range:	-30°~180° F	-35°~80° C
Actuation per 25mm of travel	0.10 sec.	
Linear accuracy per 25mm of travel	±0.0001 in.	±0.005 mm
Repeatability (-P Option)	±0.003 in.	±0.08 mm
Pressure Range	20-100 psi	1.4-7 bar
Valve required to actuate	4-way, 2-p	osition

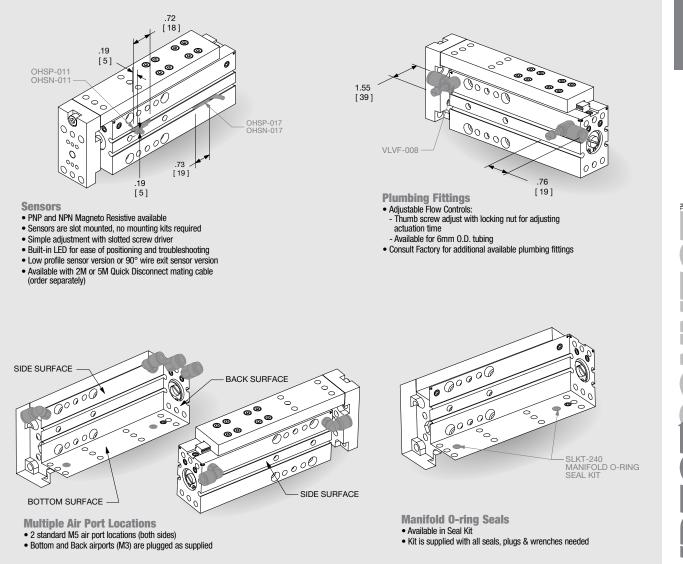
MINI BALL RAIL SLIDE DLM-09M-25 DIRECTCONNECT MODULAR SERIES



Flow Controls are recommended for nearly all applications

Loading Capacity DLM-09M-25	Static	Dynamic
Maximum Tensile T	165 lbs. [735 N]	92 lbs. [413 N]
Maximum Compressive C	165 lbs. [735 N]	92 lbs. [413 N]
Maximum Moment M x	84 in1bs. [9.6 Nm]	47 in1bs. [5.4 Nm]
Maximum Moment My	56 in1bs. [6.4 Nm]	31 in1bs. [3.6 Nm]
Maximum Moment Mz	56 in1bs. [6.4 Nm]	31 in1bs. [3.6 Nm]
Distance to Bearing Centerline L	3.40 in. [86 mm]

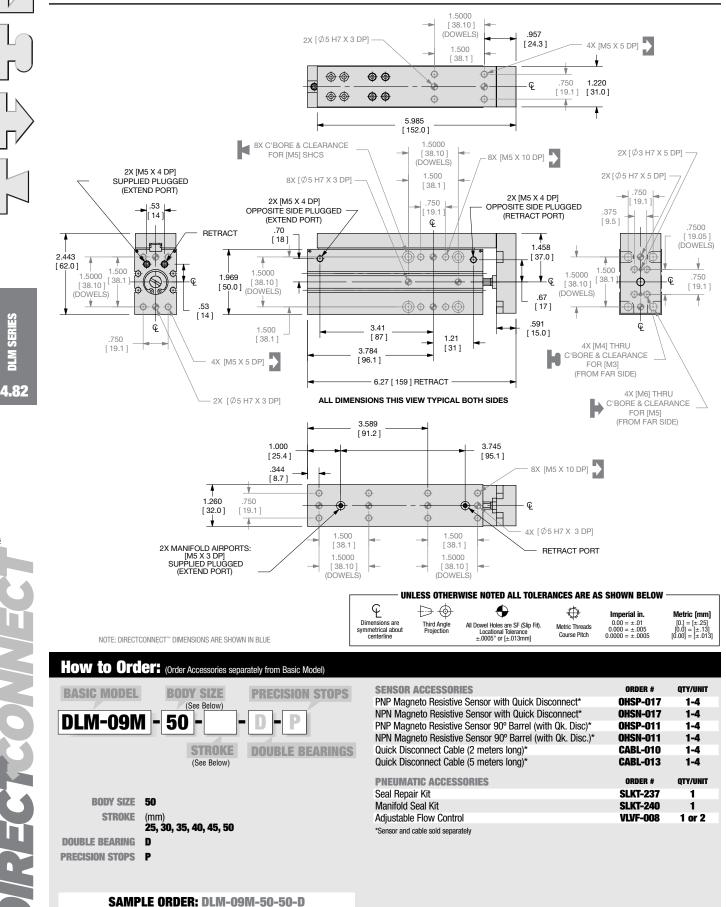
Accessory Mounting Technical Data



Please see back cover for DE-STA-CO Global Locations. www.destaco.com WWW.COMOSO.COM





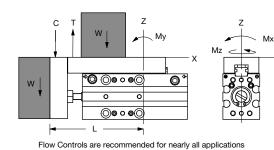


Ex: DLM-09M Mini Ball Rail Slide, -50 Body Size, 50mm Stroke, Double Ball Bearings



Specifications	DLM-09M	-50
Thrust Force F @ 100 psi, 7 bar	31 lbs.	138 N
Max. Stroke	2.00 in.	50 mm
Stroke Reduction (return)	0.19 in.	5 mm
Weight	1.41 lbs.	0.64 Kg
Maximum Payload W	2.0 lbs.	0.90 Kg
Maximum Payload (-P Option)	1.0 lbs.	0.45 Kg
Cylinder Bore Ø	0.630 in.	16 mm
Temperature Range	-30°~180° F	-35°~80° C
Actuation per 25mm of travel	0.10 :	sec.
Linear accuracy per 25mm of travel	±0.0001 in.	±0.005 mm
Repeatability (-P Option)	±0.003 in.	±0.08 mm
Pressure Range	20-100 psi	1.4-7 bar
Valve required to actuate	4-way, 2-p	osition

MINI BALL RAIL SLIDE DLM-09M-50 DIRECTCONNECT MODULAR SERIES



Static

165 lbs. [735 N]

165 lbs. [735 N]

84 in.-1bs. [9.6 Nm]

56 in.-1bs. [6.4 Nm]

56 in.-1bs. [6.4 Nm]

330 lbs. [1470 N]

330 lbs. [1470 N]

169 in.-Ibs. [19.2 Nm]

113 in.-Ibs. [12.8 Nm]

113 in.-Ibs. [12.8 Nm]

4.13 in. [105 mm]

4.75 in. [121 mm]

Loading Capacity

Maximum Compressive C

Maximum Moment Mx

Maximum Moment My

Maximum Moment Mz

DLM-09M-50-D Maximum Tensile T

Distance to Bearing Centerline L

Maximum Compressive C

Maximum Moment $\mathbf{M}_{\mathbf{X}}$

Maximum Moment My

Maximum Moment Mz

Distance to Bearing Centerline L

DLM-09M-50 Maximum Tensile T

Dynamic

92 lbs. [413 N]

92 lbs. [413 N]

47 in.-Ibs. [5.4 Nm]

31 in.-Ibs. [3.6 Nm]

31 in.-Ibs. [3.6 Nm]

185 lbs. [826 N]

185 lbs. [826 N]

95 in.-Ibs. [10.8 Nm]

63 in.-1bs. [7.2 Nm]

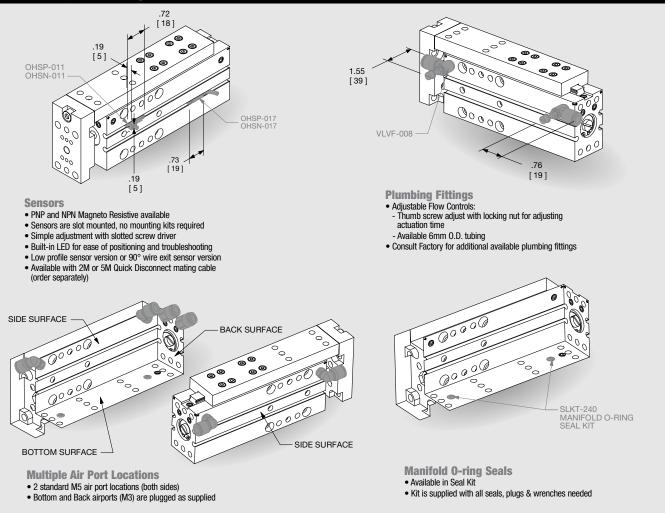
63 in.-1bs. [7.2 Nm]

DLM SERIES

4.83

DIRECTCONNE

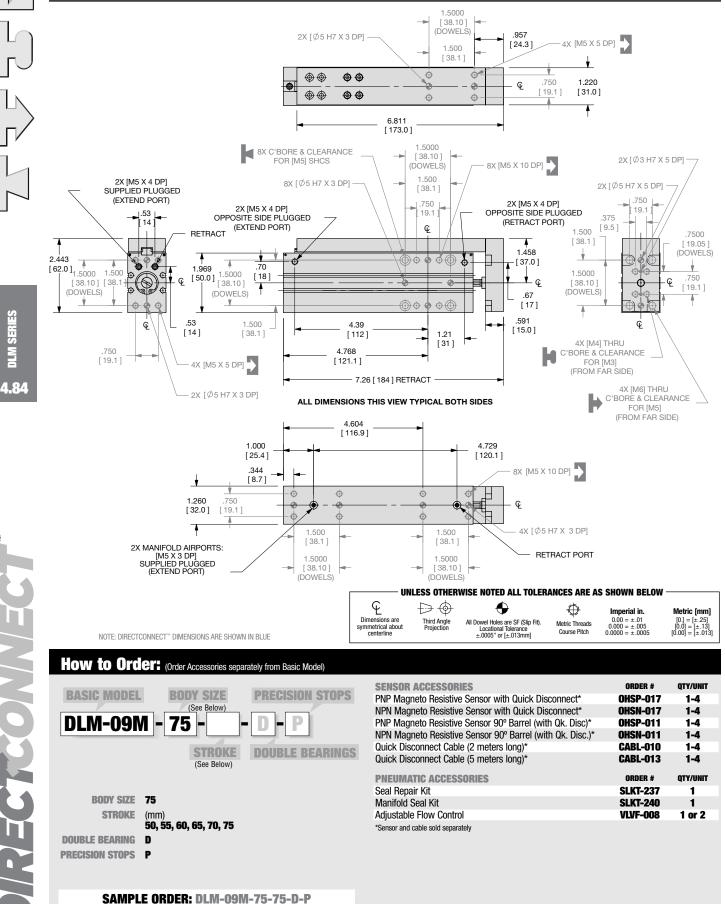
Accessory Mounting Technical Data



Please see back cover for DE-STA-CO Global Locations. www.destaco.com





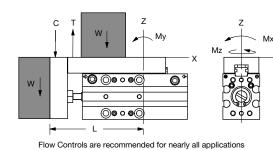


Ex: DLM-09M Mini Ball Rail Slide, -75 Body Size, 75mm Stroke, Double Ball Bearings, Precision Stops



Specifications	DLM-09M	-75
Thrust Force F @ 100 psi, 7 bar	31 lbs.	138 N
Max. Stroke	3.00 in.	150 mm
Stroke Reduction (return)	0.19 in.	5 mm
Weight	1.78 lbs.	0.81 Kg
Maximum Payload W	2.0 lbs.	0.90 Kg
Maximum Payload (-P Option)	1.0 lbs.	0.45 Kg
Cylinder Bore Ø	0.630 in.	16 mm
Temperature Range	-30°~180° F	-35°~80° C
Actuation per 25mm of travel	0.10 sec.	
Linear accuracy per 25mm of travel	±0.0001 in.	±0.005 mm
Repeatability (-P Option)	±0.003 in.	±0.08 mm
Pressure Range	20-100 psi	1.4-7 bar
Valve required to actuate	4-way, 2-p	osition

MINI BALL RAIL SLIDE DLM-09M-75 DIRECTCONNECT MODULAR SERIES



Static

165 lbs. [735 N]

165 lbs. [735 N]

84 in.-1bs. [9.6 Nm]

56 in.-1bs. [6.4 Nm]

56 in.-1bs. [6.4 Nm]

330 lbs. [1470 N]

330 lbs. [1470 N]

169 in.-Ibs. [19.2 Nm]

113 in.-Ibs. [12.8 Nm]

113 in.-Ibs. [12.8 Nm]

4.95 in. [126 mm]

5.58 in. [142 mm]

Loading Capacity

Maximum Compressive C

Maximum Moment $\mathbf{M}_{\mathbf{X}}$

Maximum Moment My

Maximum Moment Mz

Maximum Compressive C

Maximum Moment Mx

Maximum Moment My

Maximum Moment Mz

Distance to Bearing Centerline L

DLM-09M-75-D Maximum Tensile T

Distance to Bearing Centerline L

DLM-09M-75 Maximum Tensile T

Dvnamic

92 lbs. [413 N]

92 lbs. [413 N]

47 in.-1bs. [5.4 Nm]

31 in.-Ibs. [3.6 Nm] 31 in.-Ibs. [3.6 Nm]

185 lbs. [826 N]

185 lbs. [826 N] 95 in.-Ibs. [10.8 Nm]

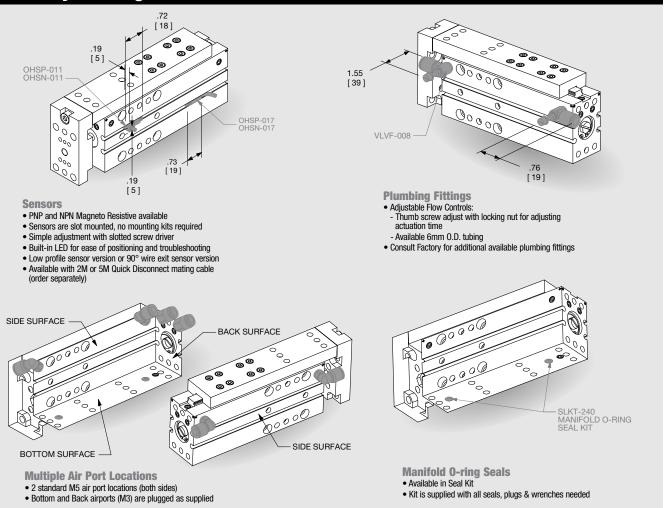
63 in.-Ibs. [7.2 Nm]

63 in.-Ibs. [7.2 Nm]

Ŷ SER 4.85

DIRECTCONNE

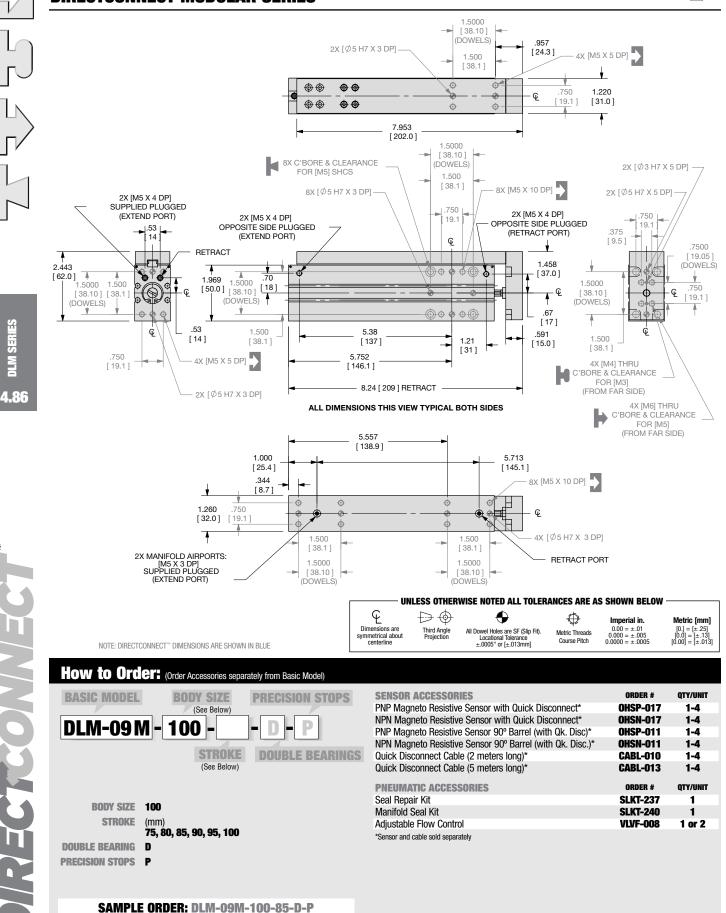
Accessory Mounting Technical Data



Please see back cover for DE-STA-CO Global Locations. www.destaco.com







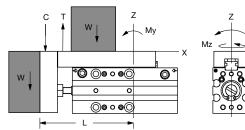
Ex: DLM-09M Mini Ball Rail Slide, -100 Body Size, 85mm Stroke, Double Ball Bearings, Precision Stops



Specifications	DLM-09M	-100
Thrust Force F @ 100 psi, 7 bar	31 lbs.	138 N
Max. Stroke	4.00 in.	200 mm
Stroke Reduction (return)	0.19 in.	5 mm
Weight	2.13 lbs.	0.97 Kg
Maximum Payload W	2.0 lbs.	0.90 Kg
Maximum Payload (-P Option)	1.0 lbs.	0.45 Kg
Cylinder Bore Ø	0.630 in.	16 mm
Temperature Range:	-30°~180° F	-35°~80° C
Actuation per 25mm of travel	0.10 :	Sec.
Linear accuracy per 25mm of travel	±0.0001 in.	±0.005 mm
Repeatability (-P Option)	±0.003 in.	±0.08 mm
Pressure Range	20-100 psi	1.4-7 bar
Valve required to actuate	4-way, 2-p	osition

MINI BALL RAIL SLIDE DLM-09M-100 DIRECTCONNECT MODULAR SERIES

Мx



Flow Controls are recommended for nearly all applications

Loading Capacity DLM-09M-100	Static	Dynamic
Maximum Tensile T	165 lbs. [735 N]	92 lbs. [413 N]
Maximum Compressive C	165 lbs. [735 N]	92 lbs. [413 N]
Maximum Moment M _X	84 in1bs. [9.6 Nm]	47 in1bs. [5.4 Nm]
Maximum Moment My	56 in1bs. [6.4 Nm]	31 in1bs. [3.6 Nm]
Maximum Moment Mz	56 in1bs. [6.4 Nm]	31 in1bs. [3.6 Nm]
Distance to Bearing Centerline L	6.10 in. [1	55 mm]

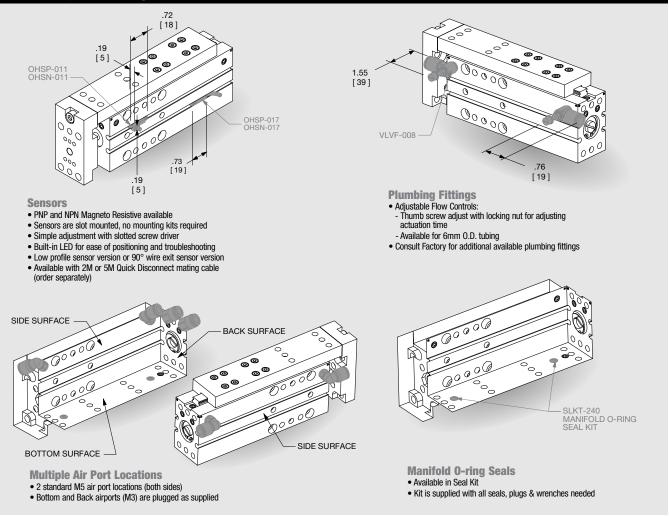
DLM-09M-100-D

Maximum Tensile T	330 lbs. [1470 N]	185 lbs. [826 N]
Maximum Compressive C	330 lbs. [1470 N]	185 lbs. [826 N]
Maximum Moment M x	169 inIbs. [19.2 Nm]	95 in1bs. [10.8 Nm]
Maximum Moment My	113 inIbs. [12.8 Nm]	63 inIbs. [7.2 Nm]
Maximum Moment Mz	113 inIbs. [12.8 Nm]	63 inIbs. [7.2 Nm]
Distance to Bearing Centerline L	6.72 in. [171 mm]	
Distance to Bearing Centerline L	6.72 in. [1]	71 mm]

н 77 4.87

DIRECTCONNE

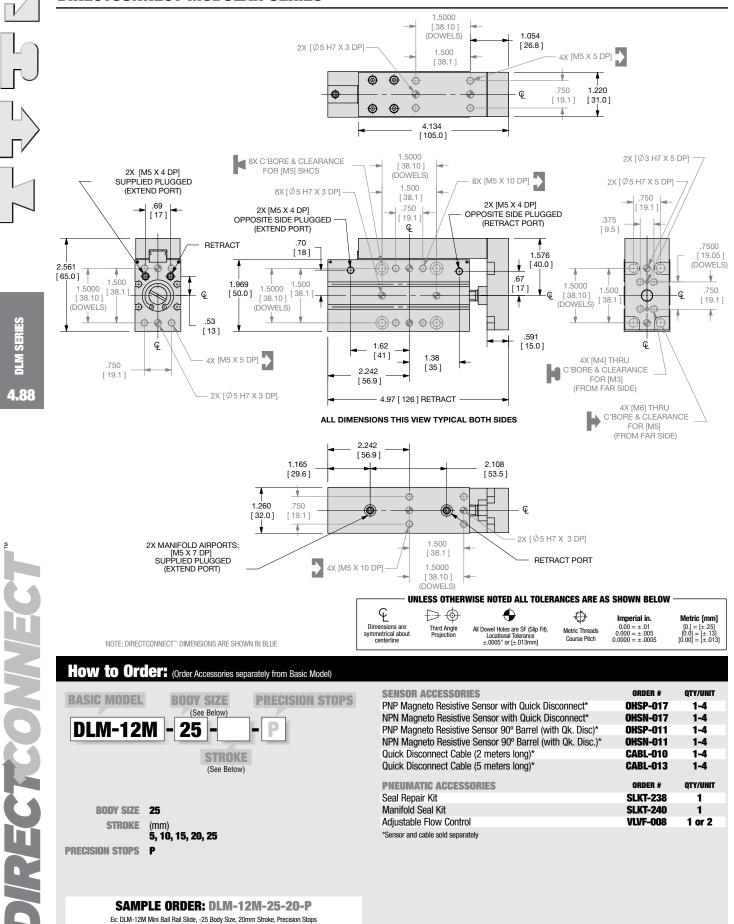
Accessory Mounting Technical Data



Please see back cover for DE-STA-CO Global Locations. www.destaco.com

MINI BALL RAIL SLIDE DLM-012M-25 DIRECTCONNECT MODULAR SERIES

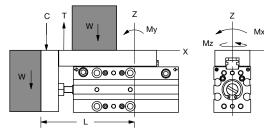






Specifications	DLM-12M	-25
Thrust Force F @ 100 psi, 7 bar	51 lbs.	230 N
Max. Stroke	1.00 in.	25 mm
Stroke Reduction (return)	0.19 in.	5 mm
Weight	1.18 lbs.	0.54 Kg
Maximum Payload W	4.0 lbs.	1.81 Kg
Maximum Payload (-P Option)	2.0 lbs.	0.90 Kg
Cylinder Bore Ø	0.813 in.	22 mm
Temperature Range:	-30°~180° F	-35°~80° C
Actuation per 25mm of travel	0.14 sec.	
Linear accuracy per 25mm of travel	±0.0001 in.	±0.005 mm
Repeatability (-P Option)	±0.003 in.	±0.08 mm
Pressure Range	20-100 psi	1.4-7 bar
Valve required to actuate	4-way, 2-p	osition

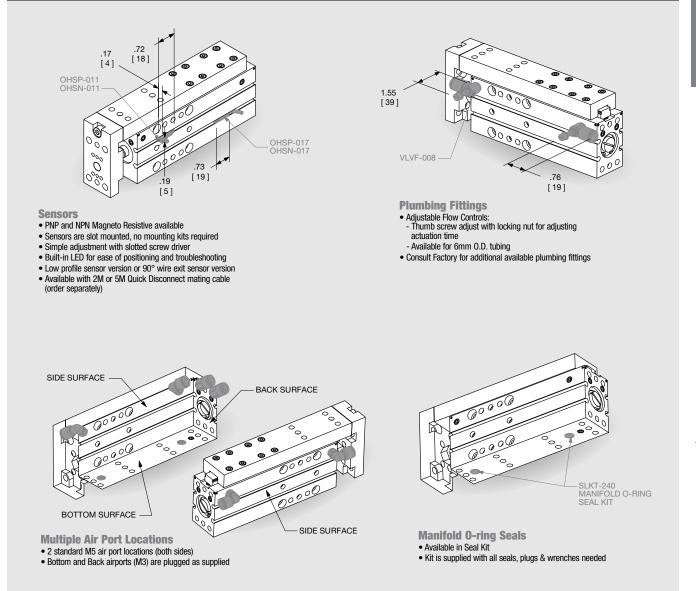
MINI BALL RAIL SLIDE DLM-12M-25 DIRECTCONNECT MODULAR SERIES



Flow Controls are recommended for nearly all applications

Loading Capacity DLM-12M-25	Static	Dynamic
Maximum Tensile T	273 lbs. [1214 N]	181 lbs. [808 N]
Maximum Compressive C	273 lbs. [1214 N]	181 lbs. [808 N]
Maximum Moment Mx	182 in1bs. [20.6 Nm]	121 inIbs. [13.7 Nm]
Maximum Moment My	104 inIbs. [11.8 Nm]	69 in1bs. [7.9 Nm]
Maximum Moment Mz	104 inIbs. [11.8 Nm]	69 in1bs. [7.9 Nm]
Distance to Bearing Centerline L	3.45 in. [88 mm]

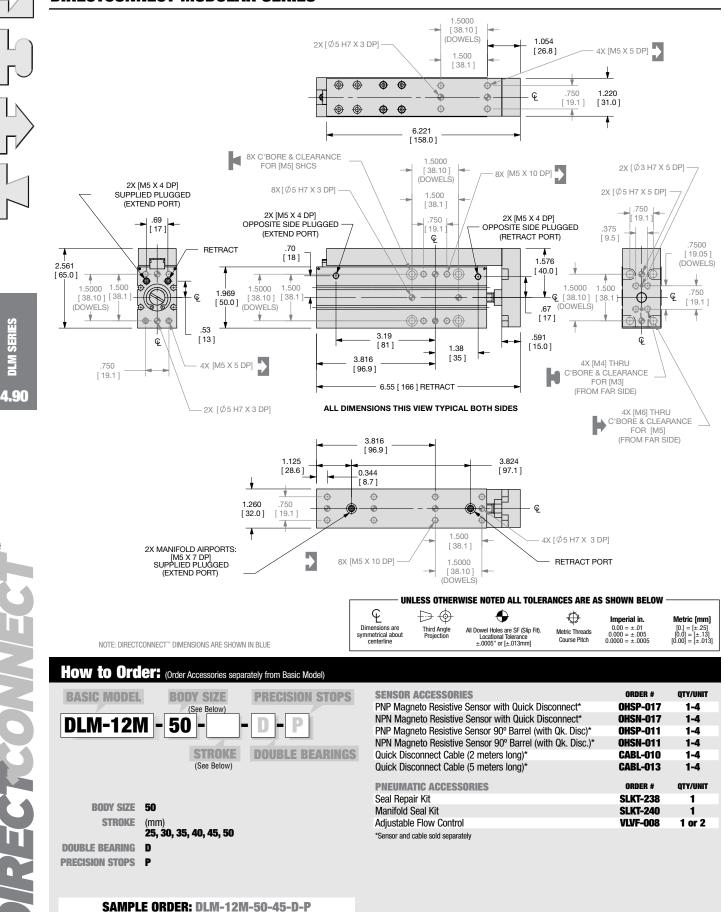
Accessory Mounting Technical Data



Please see back cover for DE-STA-CO Global Locations. www.destaco.com WWW.COMOSO.COM





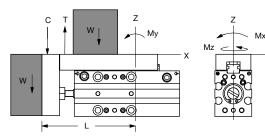


Ex: DLM-12M Mini Ball Rail Slide, -50 Body Size, 45mm Stroke, Double Ball Bearings, Precision Stops



Specifications	DLM-12N	1-50
Thrust Force F @ 100 psi, 7 bar	51 lbs.	230 N
Max. Stroke	2.00 in.	50 mm
Stroke Reduction (return)	0.19 in.	5 mm
Weight	1.43 lbs.	0.65 Kg
Maximum Payload W	4.0 lbs.	1.81 Kg
Maximum Payload (-P Option)	2.0 lbs.	0.90 Kg
Cylinder Bore Ø	0.813 in.	22 mm
Temperature Range:	-30°~180° F	-35°~80° C
Actuation per 25mm of travel	0.14 sec.	
Linear accuracy per 25mm of travel	±0.0001 in.	±0.005 mm
Repeatability (-P Option)	±0.003 in.	±0.08 mm
Pressure Range	20-100 psi	1.4-7 bar
Valve required to actuate	4-way, 2-p	osition

MINI BALL RAIL SLIDE DLM-12M-50 DIRECTCONNECT MODULAR SERIES



Flow Controls are recommended for nearly all applications

Loading Capacity DLM-12M-50	Static	Dynamic
Maximum Tensile T	273 lbs. [1214 N]	181 lbs. [808 N]
Maximum Compressive C	273 lbs. [1214 N]	181 lbs. [808 N]
Maximum Moment Mx	182 in1bs. [20.6 Nm]	121 inIbs. [13.7 Nm]
Maximum Moment My	104 inIbs. [11.8 Nm]	69 in1bs. [7.9 Nm]
Maximum Moment Mz	104 inIbs. [11.8 Nm]	69 in1bs. [7.9 Nm]
Distance to Bearing Centerline L	4.10 in. [1	04 mm]
DI M-12M-50-D		

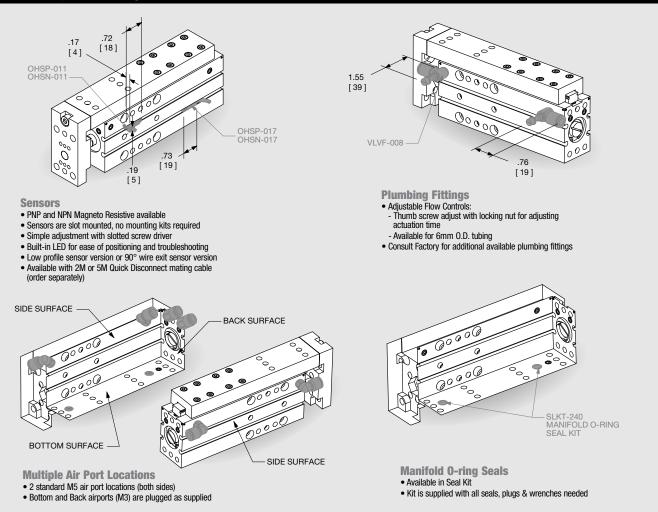
DLM-12M-50-D

Maximum Tensile T	546 lbs. [2429 N]	363 lbs. [1617 N]
Maximum Compressive C	546 lbs. [2429 N]	363 lbs. [1617 N]
Maximum Moment M _X	364 in1bs. [41.2 Nm]	95 in1bs. [27.4 Nm]
Maximum Moment My	208 in1bs. [23.6 Nm]	139 inIbs. [15.8 Nm]
Maximum Moment Mz	208 in1bs. [23.6 Nm]	139 inIbs. [15.8 Nm]
Distance to Bearing Centerline L	4.82 in. [122 mm]	

URM SER 4.91

4

Accessory Mounting Technical Data

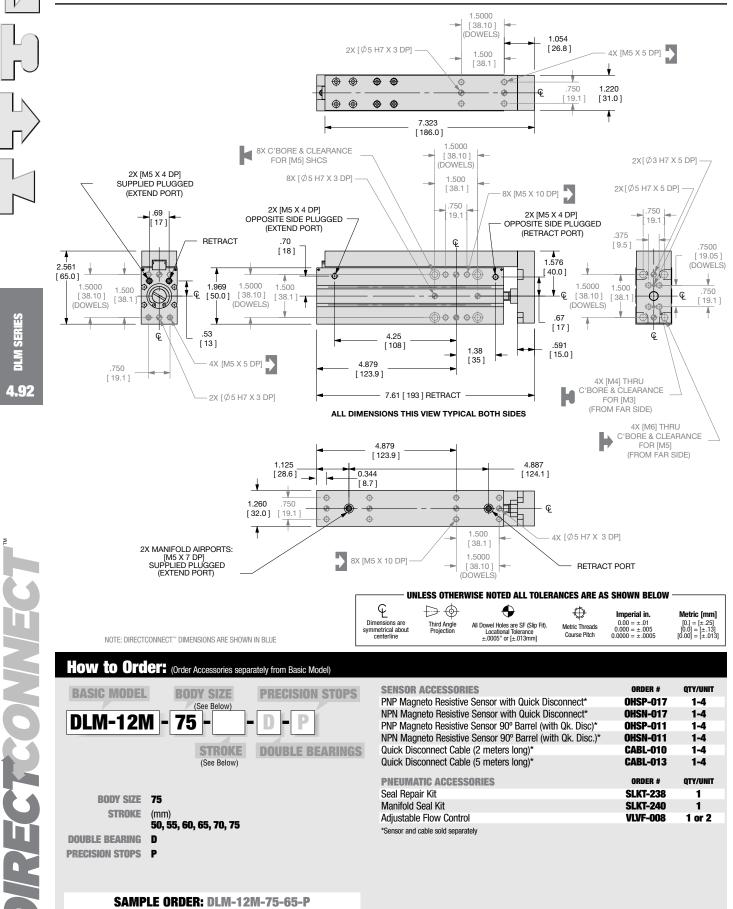


Please see back cover for DE-STA-CO Global Locations. www.destaco.com

NRECTCONNECT





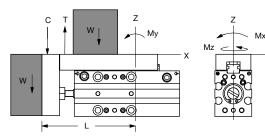


Ex: DLM-12M Mini Ball Rail Slide, -75 Body Size, 65mm Stroke, Precision Stops



Specifications	DLM-12M	-75
Thrust Force F @ 100 psi, 7 bar	51 lbs.	230 N
Max. Stroke	3.00 in.	150 mm
Stroke Reduction (return)	0.19 in.	5 mm
Weight	1.80 lbs.	0.82 Kg
Maximum Payload W	4.0 lbs.	1.81 Kg
Maximum Payload (-P Option)	2.0 lbs.	0.90 Kg
Cylinder Bore Ø	0.813 in.	22 mm
Temperature Range	-30°~180° F	-35°~80° C
Actuation per 25mm of travel	0.14 sec.	
Linear accuracy per 25mm of travel	±0.0001 in.	±0.005 mm
Repeatability (-P Option)	±0.003 in.	±0.08 mm
Pressure Range	20-100 psi	1.4-7 bar
Valve required to actuate	4-way, 2-p	osition

MINI BALL RAIL SLIDE DLM-12M-75 DIRECTCONNECT MODULAR SERIES



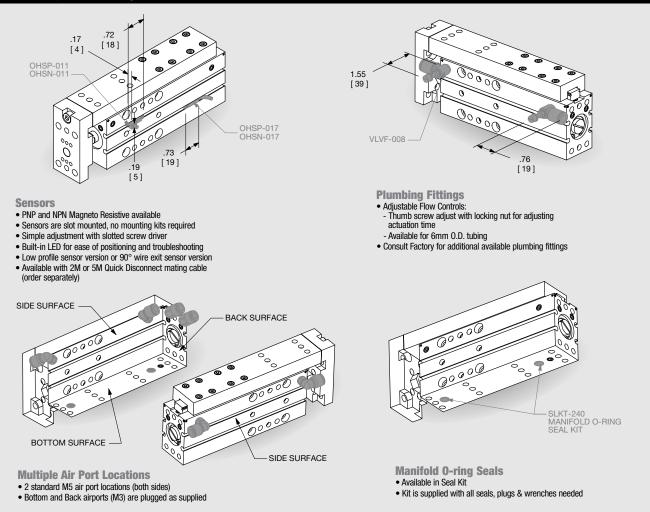
Flow Controls are recommended for nearly all applications

Loading Capacity DLM-12M-75	Static	Dynamic	
Maximum Tensile T	273 lbs. [1214 N]	181 lbs. [808 N]	
Maximum Compressive C	273 lbs. [1214 N]	181 lbs. [808 N]	
Maximum Moment Mx	182 in1bs. [20.6 Nm]	121 inIbs. [13.7 Nm]	
Maximum Moment My	104 inIbs. [11.8 Nm]	69 in1bs. [7.9 Nm]	
Maximum Moment Mz	104 inIbs. [11.8 Nm]	69 in1bs. [7.9 Nm]	
Distance to Bearing Centerline L	5.21 in. [132 mm]		
DLM-12M-75-D			

Maximum Tensile T 546 lbs. [2429 N] 363 lbs. [1617 N] Maximum Compressive C 546 lbs. [2429 N] 363 lbs. [1617 N] Maximum Moment $\mathbf{M}_{\mathbf{X}}$ 364 in.-Ibs. [41.2 Nm] 242 in.-1bs. [27.4 Nm] Maximum Moment My 208 in.-Ibs. [23.6 Nm] 139 in.-Ibs. [15.8 Nm] 139 in.-Ibs. [15.8 Nm] Maximum Moment Mz 208 in.-1bs. [23.6 Nm] Distance to Bearing Centerline L 5.92 in. [150 mm]

4.93

Accessory Mounting Technical Data

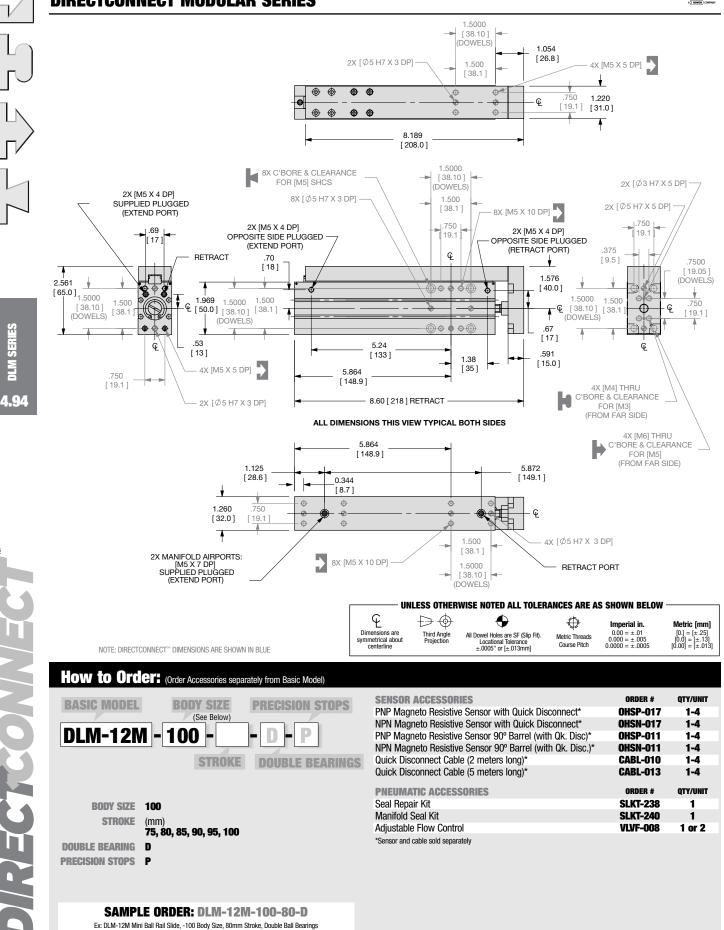


DIRECTCONNECT

Please see back cover for DE-STA-CO Global Locations. www.destaco.com



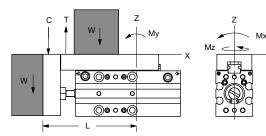






Specifications	DLM-12M-100		
Thrust Force F @ 100 psi, 7 bar	51 lbs.	230 N	
Max. Stroke	4.00 in.	200 mm	
Stroke Reduction (return)	0.19 in.	5 mm	
Weight	2.25 lbs.	1.02 Kg	
Maximum Payload W	4.0 lbs.	1.81 Kg	
Maximum Payload (-P Option)	2.0 lbs.	0.90 Kg	
Cylinder Bore Ø	0.813 in.	22 mm	
Temperature Range:	-30°~180° F	-35°~80° C	
Actuation per 25mm of travel	0.14 :	sec.	
Linear accuracy per 25mm of travel	±0.0001 in.	±0.005 mm	
Repeatability (-P Option)	±0.003 in.	±0.08 mm	
Pressure Range	20-100 psi	1.4-7 bar	
Valve required to actuate	4-way, 2-p	osition	

MINI BALL RAIL SLIDE DLM-12M-100 DIRECTCONNECT MODULAR SERIES



Flow Controls are recommended for nearly all applications

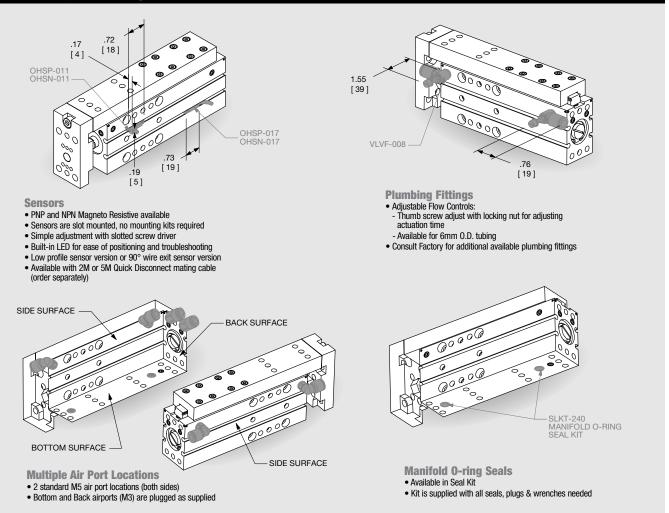
Loading Capacity DLM-12M-100	Static	Dynamic	
Maximum Tensile T	273 lbs. [1214 N]	181 lbs. [808 N]	
Maximum Compressive C	273 lbs. [1214 N]	181 lbs. [808 N]	
Maximum Moment Mx	182 inIbs. [20.6 Nm]	121 inIbs. [13.7 Nm]	
Maximum Moment My	104 inIbs. [11.8 Nm]	69 in1bs. [7.9 Nm]	
Maximum Moment Mz	104 inIbs. [11.8 Nm]	69 in1bs. [7.9 Nm]	
Distance to Bearing Centerline L	6.07 in. [154 mm]		

DLM-12M-100-D

Maximum Tensile T	546 lbs. [2429 N]	363 lbs. [1617 N]	
Maximum Compressive C	546 lbs. [2429 N]	363 lbs. [1617 N]	
Maximum Moment M _X	364 in1bs. [41.2 Nm]	242 in1bs. [27.4 Nm]	
Maximum Moment My	208 in1bs. [23.6 Nm]	139 in1bs. [15.8 Nm]	
Maximum Moment Mz	208 in1bs. [23.6 Nm]	139 inIbs. [15.8 Nm]	
Distance to Bearing Centerline L	6.79 in. [172 mm]		

11 77 4.95

Accessory Mounting Technical Data



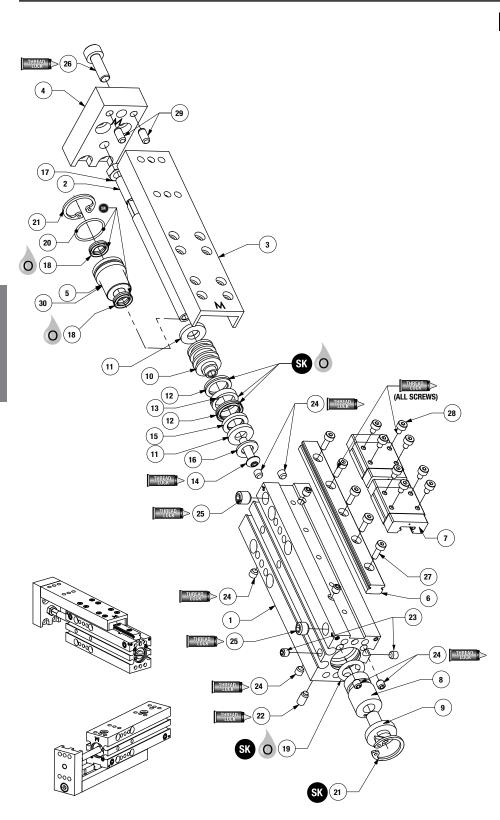
Please see back cover for DE-STA-CO Global Locations. www.destaco.com

www.comoso.com

DIRECTCONNE

DLM SERIES EXPLODED VIEW





lter	n Qty	Name	
01	1	Body	
02	1	Piston Shaft	
03	1	Tool Plate Top	
04	1	Tool Plate Face	
05	1	Shaft End Cap	
06	1	Guide Rail Bearing	
07	1 or 2	Bearing Block	
08	1	Stop	
09	1	Adjustment Stud	
10	1	Piston	
11	2	Shock Pad	
12	2	Piston U-Cup	
13	1	Teflon Ring	
14	1	Piston Screw	
15	1	Magnet	
16	1	Piston Washer	
17	1	Jam Nut	
18	1	End Cap U-Cup	
19	2	Stop O-Ring	
20		Shaft End Cap O-Ring	
21	<u>2</u> 1	Cap Retaining Ring	
22		Stop Set Screw	
23	2	Adjustment Stud	
		Set Screw	
24	8	Plug Set Screw	
25	2	Port Plug Set Screw	
26	1	Tool Plate Screw	
27	3-9	Rail Screw	
28	4 or 8	Bearing Screw	
29	2	Face Plate Dowel	
30	1	Piston Spacer	

NOTE: Contact the Robohand Sales Department for a complete spare parts list with order numbers and prices.

Assembly Procedure

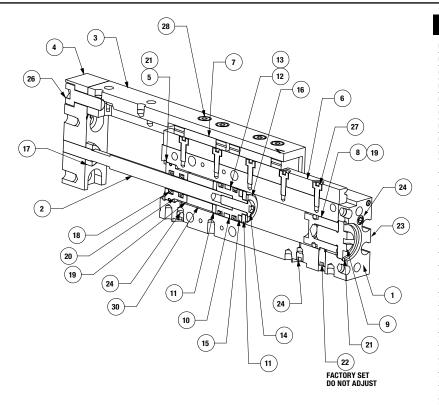
1) Install set screw plugs in appropriate ports in body using thread sealer

- 2) Attach Rail to Body
- 3) Attach Tool Plate Face to Tool Plate Top
- 4) Glue Magnet to Piston
- 5) Lube and install seals in Piston, Stop and End Cap
- 6) Install Stop Pad (retract) and Washer in Piston
- 7) Attach Nut to Shaft
- 8) Attach Piston to Shaft with End Cap, Spacer and Stop Pad (extend)
- 9) Install Stop from front of Body 10) Install Dog Point Set Screw
- 11) Install Adjustment Studs
- 12) Install Piston Assembly
- 13) Install Bearing Block
- 14) Install Tool Plate Assembly



Please see back cover for DE-STA-CO Global Locations. www.destaco.com





NOTE: Contact the Robohand Sales Department for a complete spare parts list with order numbers and prices.

DLM SERIES ASSEMBLED VIEW

Iten	n Qty	Name
01	1	Body
02	1	Piston Shaft
03	1	Tool Plate Top
04	1	Tool Plate Face
05	1	Shaft End Cap
06	1	Guide Rail Bearing
07	1 or 2	Bearing Block
80	1	Stop
09	1	Adjustment Stud
10	1	Piston
11	2	Shock Pad
12	2	Piston U-Cup
13	1	Teflon Ring
14	1	Piston Screw
15	1	Magnet
16	1	Piston Washer
17	1	Jam Nut
18	1	End Cap U-Cup
19	2	Stop O-Ring
20	1	Shaft End Cap O-Ring
21	2	Cap Retaining Ring
22	1	Stop Set Screw
23	2	Adjustment Stud Set Screw
24	8	Plug Set Screw
25	2	Port Plug Set Screw
26	1	Tool Plate Screw
27	3-9	Rail Screw
28	4 or 8	Bearing Screw
29	2	Face Plate Dowel
30	1	Piston Spacer

Accessory Installation & Adjustment Instructions

				1) Inst 2) Onc	Qty Name 1 Body 1-4 Sensor mbly Procedure all sensor in profile slove adjusted for end strove strowedure	ke, lock in
	al [Metric] Flats on Shaft 1/8 [3] 7/32 [6] 5/16 [8]		FULL STROKE NO ADJUSTMENTS	1) Too by I (2) Cau Cau Con The of t fron Reti loca 2) Reti by I and and	e and Position Adjustr I Plate position can be oosening Jam Nut (17) from Tool Plate Face (4) ition. Do not exceed 5 inpletely unthread fror rer is no limit and it is he installer/adjuster in factory settings. Ighten Jam Nut upon at ition. ract stroke can be adju oosening Adjustment S then turning Adjustme minimum limits are in ustment and cannot be Screw upon attaining of	adjusted up to 5mm and unthreading Shaft mm. Shaft may n Tool Plate Face. the responsibility not to exceed 5mm taining desired sted up to 5mm tud Set Screws (23) nt Stud (9). Maximum tegral to this exceeded. Retighten
SK Seal Kit Items	THREAD LOCK Thread Locker	KBYTOX Krytox™ Lubricant	Lightweight Machine Oil	G Teflon [™] Based Grease	Super Bonder	Third Angle Projection

Please see back cover for DE-STA-CO Global Locations. www.destaco.com



Inductive Sensing, Composite Bearings, Opposing Tool Plates, Dual Support, Spring Retract/Extend and more...

Drawings are for concept only. Contact Robohand Tech Support with project requirements.

