

Linear Slides

01/30/2025



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This catalog is a custom document and the products included is based on your unique selection from portions of complete catalogs that already exist. Please refer to our full catalogs for more information on products not included in this customized document.

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Linear Slides

GR-LIN-1

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LINEAR SLIDES

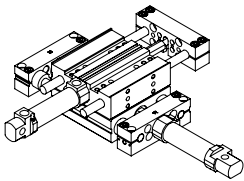
Linear Slides | Product Overview | DIRECTCONNECT™ Mounting

Model	Stroke mm [in]	Thrust Force N [lbs]	Operating Environment	Special Features	Page GR-LIN-#
DLB	6-500 [0.25-26]	89-560 [20-126]	IP54	High Reliability with smooth operation base slide. Internal or external air cylinder options. DIRECTCONNECT	3
DLT	6-700 [0.25-28]	89-560 [20-126]	IP54	High Reliability with smooth operation Thrust slide. Internal or external air cylinder options. DIRECTCONNECT	19
DLM	5-100 [0.2-4]	67-230 [15-52]	IP54	Precise positioning with stroke adjustments. High load and moment capacity. DIRECTCONNECT	41
MPS	13-51 [0.5-2]	67-196 [15-44]	IP54	Compact slide with zero side play. Dual-V bearing design. Adjustable stops.	47

DIRECTCONNECT Modular Direct Mounting System without Adapter Plates

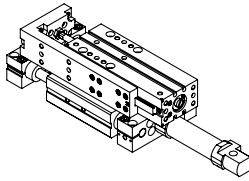
Products can be mounted in multiple positions. Refer to datasheet for complete info.

Slide to Slide



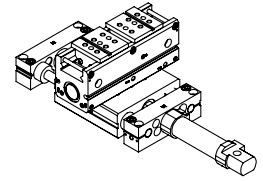
DLB Base Slide to
DLT Thruster Slide

Slide to Slide



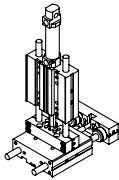
DLB Base Slide to
DLM Thruster Slide

Slide to Gripper



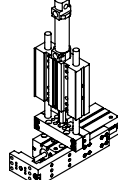
DLB Base Slide to
DPG Parallel Gripper

Slide to Slide



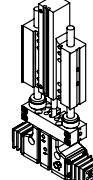
DLT Thruster Slide to
DLT Thruster Slide

Slide to Slide



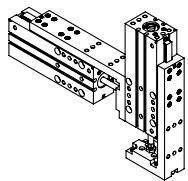
DLT Thruster Slide to
DLM Thruster Slide

Slide to Gripper



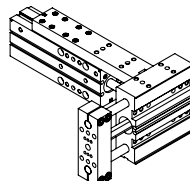
DLT Thruster Slide to
DPDL Parallel Gripper

Slide to Slide



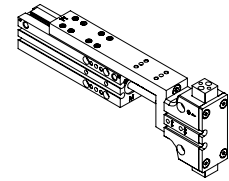
DLM Thruster Slide to
DLM Thruster Slide

Slide to Slide



DLM Thruster Slide to
DLT Thruster Slide

Slide to Gripper



DLM Thruster Slide to
DPDL Parallel Gripper

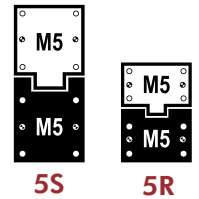
LINEAR SLIDES

Linear Slides | DIRECTCONNECT™ Mounting Compatibility Chart

DESTACO's DIRECTCONNECT™ technology, allows all components of the system—grippers and slides—to be mounted together directly. Look for matching icons on product datasheets for mounting compatibility.

Note: The numbers in the cell represent the metric screw size and basic mounting pattern.

S=Square, R=Rectangle. ie; 5S = M5 Screw with square mounting pattern.



Catalog Models		Base Slides			Thruster Slides				
		DLB-06&08	DLB-10,12,16	DLB-20&25	DLT-06&08	DLT-10,12,16	DLT-20&25	DLM-07	DLM-09&12
Base Slides	DLB-06,08				3R,3S			3R,3S	
	DLB-10,12,16				3S	5R,5S		3S	5R,5S
	DLB-20,25					5S	10R,10S		5S
Thruster Slides	DLT-06,08	3R,3S	3S		3R	3R		3R	3R
	DLT-10,12,16		5R,5S	5S		5R	5R		5R
	DLT-20,25			10R,10S			10R		
	DLM-07	3R,3S	3S		3R	3R		3R	3R
	DLM-9,12		5R,5S	5S		5R	5R		5R
Grippers	DGC		5R			5R	5R		5R
	DPG		5R			5R	5R		5R
	DCT-12, 16,25	3R			3R	3R		3R	3R
	DCT-25		5R			5R	5R		5R
	DPDL-047,056	3R			3R	3R		3R	3R
	DPDL-088,125		5R			5R	5R		5R
	DPDL-175,250			10R			10R		
	DPDS-047,056	3R			3R	3R		3R	3R
	DPDS-088,125		5R			5R	5R		5R
	DPDS-175,250			10R			10R		
	DPL-25xx		5R			5R	5R		5R
	DPL-32xx,40xx			10R			10R		
	DPP-10,14	3R			3R	3R		3R	3R
	DPP-20		5R			5R	5R		5R
	DPP-28		5R	10R		5R	10R		5R
	DPW-250	3R			3R	3R		3R	3R
	DPW-375,500		5R			5R	5R		5R
	G100-08,011	3R			3R	3R		3R	3R
	G100-18,25		5R			5R	5R		5R
	DPE-200		5R			5R	5R		5R
DPE-400			10R			10R			

DLB SERIES - INTERNAL AIR CYLINDER

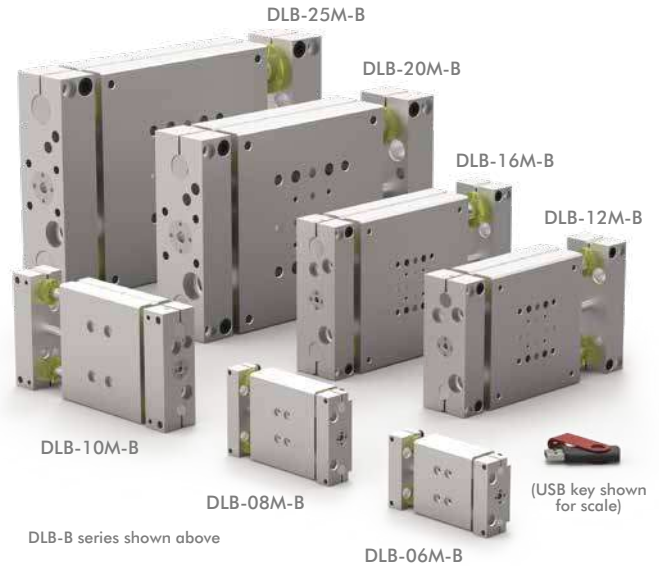
Internal Air Cylinder Linear Base Slides | Features and Benefits | How To Order

Features:

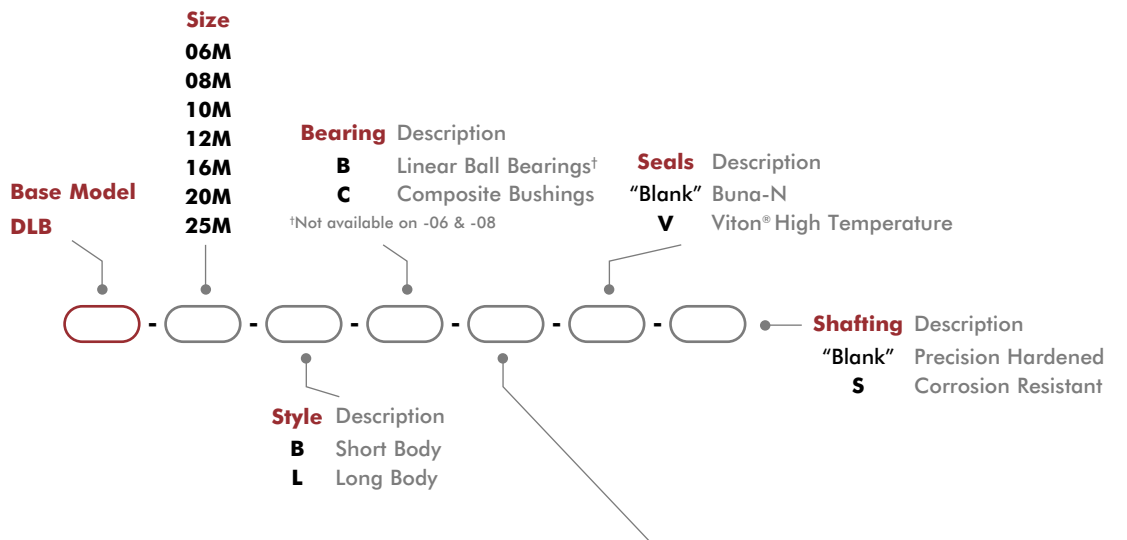
- Bearing system for smooth operation
- Rugged design produces very reliable long life operation
- Internal air cylinder for space-limited applications
- Telescopic airlines, shocks and hard stops available
- Viton® seals for high temp applications
- Corrosion resistant shafting for corrosive environments
- Inductive sensing for position detection
- Custom stroke lengths available.

Applications:

- Machining and automation applications
- Harsh environment pick-and-place applications
- OEM machines



How To Order



-B Style	Stroke* Metric (mm)	-L Style	Stroke* Metric (mm)
DLB-06M-B	6, 12, 25, 30	DLB-06M-L	12, 25, 40, 50, 65, 75
DLB-08M-B	6, 12, 25, 40, 44	DLB-08M-L	12, 25, 40, 50, 65, 75, 85
DLB-10M-B	25, 50	DLB-10M-L	25, 50, 80, 100
DLB-12M-B	25, 50	DLB-12M-L	25, 50, 80, 100, 125
DLB-16M-B	25, 50, 80	DLB-16M-L	25, 50, 80, 100, 125, 150
DLB-20M-B	25, 50, 80, 100	DLB-20M-L	25, 50, 80, 100, 125, 160
DLB-25M-B	25, 50, 80, 100, 125	DLB-25M-L	25, 50, 80, 100, 125, 160, 175

*Custom strokes available. Consult factory.

*Custom strokes available. Consult factory.

DLB SERIES - INTERNAL AIR CYLINDER

Internal Air Cylinder Linear Base Slides | Accessories and Technical Specifications

Shock/Stop Accessories	Model Numbers	Style	Part Number	Qty/Unit
Shock Absorber	06, 08	ALL	SHOK-030	1-2
	10		SHOK-028	
	12, 16,		SHOK-010	
	20, -25		SHOK-029	
Adjustable Hard Stop	06, 08	ALL	DLT-0623	1-2
	10, 12, 16, 20, 25		DLT-1023	
Sensor Accessories	Model Numbers	Style	Part Number	Qty/Unit
PNP Inductive Sensor with Quick Disconnect*	All Models	ALL	OISP-011	1-2
NPN Inductive Sensor with Quick Disconnect*			OISN-011	
Quick Disconnect 2 Meter Cable Length*			CABL-010	
Quick Disconnect 5 Meter Cable Length*			CABL-013	
Pneumatic Accessories	Model Numbers	Style	Part Number	Qty/Unit
G1/8 Telescopic Airlines (up to 50mm)	10, 12, 16	B	OTAL-043	1-4
G1/8 Telescopic Airlines (up to 80mm)	10, 12, 16		OTAL-044	
G1/8 Telescopic Airlines (up to 100mm)	10, 12, 16	L	OTAL-051	
G1/8 Telescopic Airlines (up to 125mm)	10, 12, 16		OTAL-052	
G1/8 Telescopic Airlines (up to 160mm)	10, 12, 16, 20, 25	L	OTAL-045	1-2
G1/8 Telescopic Airlines (up to 300mm)	20, 25		OTAL-046	
M5 Adjustable Flow Control	06, 08, 10, 12, 16	ALL	VLVF-008	
G 1/8 Adjustable Flow Control	20, 25		VLVF-005	
Cylinder Seal Kit (Buna-N)	06, 08		SLKT-109	1
	10		SLKT-101	
	12, 16	SLKT-103		
	20, 25	SLKT-105		
Cylinder Seal Kit (Viton®)	06, 08	SLKT-109V	1	
	10	SLKT-101V		
	12, 16	SLKT-103V		
	20, 25	SLKT-105V		

*Sensor and cable sold separately.

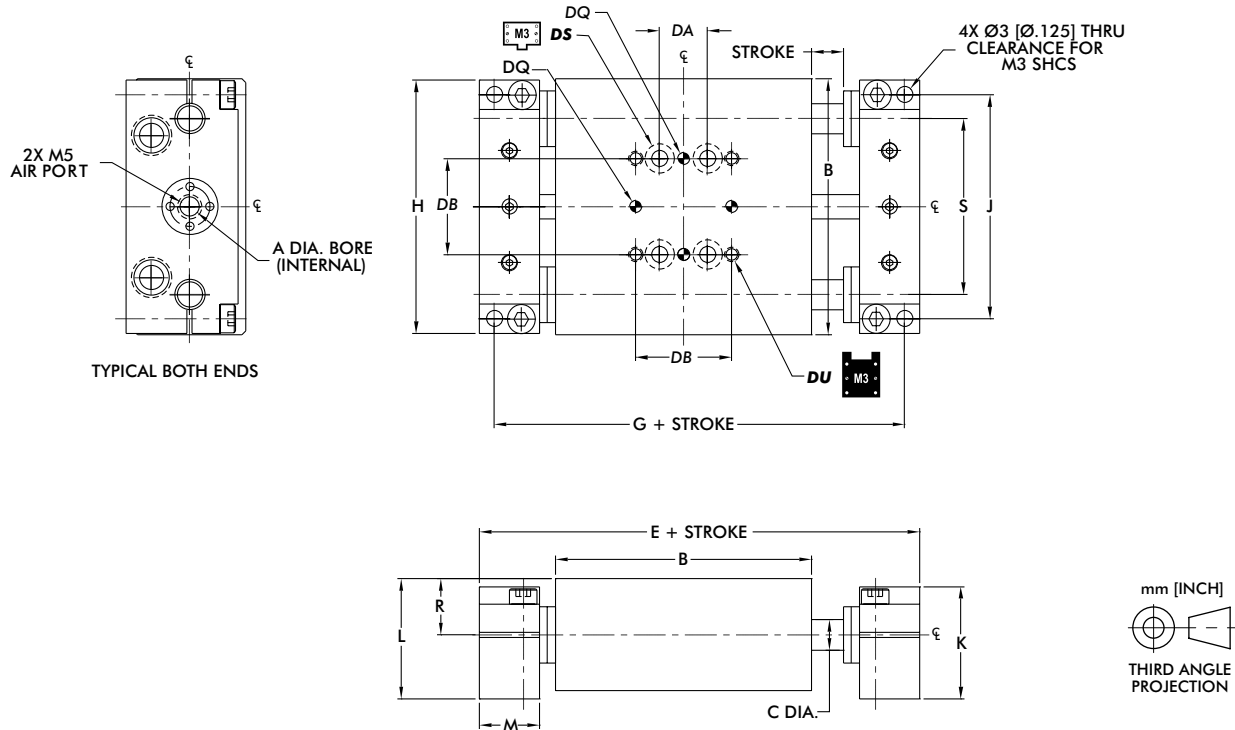
See page GR-LIN-35 for Accessory Mounting Technical Data.

Specifications

Specifications	Units	06	08	10	12
Max. Air Pressure	bar [psi]	7 [100]			
Thrust Force @ 5.5 bar [80psi]	N [lbs]	89 [20]		129 [29]	254 [57]
Weight (basic unit) -B	kg [lb]	0.20 [0.44]	0.36 [0.79]	0.93 [2.08]	1.7 [3.83]
Weight (basic unit) -L	kg [lb]	0.32 [0.71]	0.56 [1.24]	1.50 [3.34]	2.30 [5.13]
Additional Weight per Stroke -B	g/mm [lbs/in]	0.53 [0.03]	0.88 [0.05]	1.4 [0.08]	2.1 [0.12]
Cylinder Bore Ø	mm [in]	14.29 [0.563]		19 [0.75]	25 [1.00]
Shaft Ø	mm [in]	6 [0.236]	8 [0.315]	9.5 [0.375]	12 [0.472]

Specifications	Units	16	20	25
Max. Air Pressure	bar [psi]	7 [100]		
Thrust Force @ 5.5 bar [80psi]	N [lbs]	254 [57]	560 [126]	560 [126]
Weight (basic unit) -B	kg [lb]	2.4 [5.19]	5.9 [13.0]	8.2 [18.2]
Weight (basic unit) -L	kg [lb]	3.30 [7.30]	7.1 [15.6]	9.7 [21.4]
Additional Weight per Stroke -B	g/mm [lbs/in]	3.3 [0.19]	5.54 [0.32]	8.4 [0.47]
Cylinder Bore Ø	mm [in]	25 [1.00]	38 [1.5]	38 [1.5]
Shaft Ø	mm [in]	16 [0.630]	20 [0.787]	25 [0.984]

Internal Air Cylinder Linear Base Slides | Dimensions and Technical Specifications



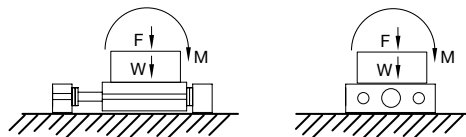
DIRECTCONNECT™ Mounting Pattern Dimensions (all sizes)				
DA	DB	DQ	DS	DU
9.5 [0.375]	19.1 [0.750]	3H7 x 2 DP	CLR & C'BORE FOR M3	M3 x 6 DP

Model	Bore Ø	Body Size	Shaft Ø	Basic Unit Dimensions								
	A	B	C	E	G	H	J	K	L	M	R	S
DLB-06M	14 [0.563]	50.8 [2.000]	6.0 [0.236]	81.0 [3.19]	75.1 [2.956]	50.3 [1.980]	44.4 [1.750]	22.2 [0.875]	23.7 [0.936]	11.9 [0.470]	11.13 [0.438]	34.93 [1.375]
DLB-08M		63.5 [2.500]	8.0 [0.315]	93.7 [3.69]	87.8 [3.456]	62.7 [2.470]	57.1 [2.250]					44.45 [1.750]

Dimensions in mm [in]

Loading Information

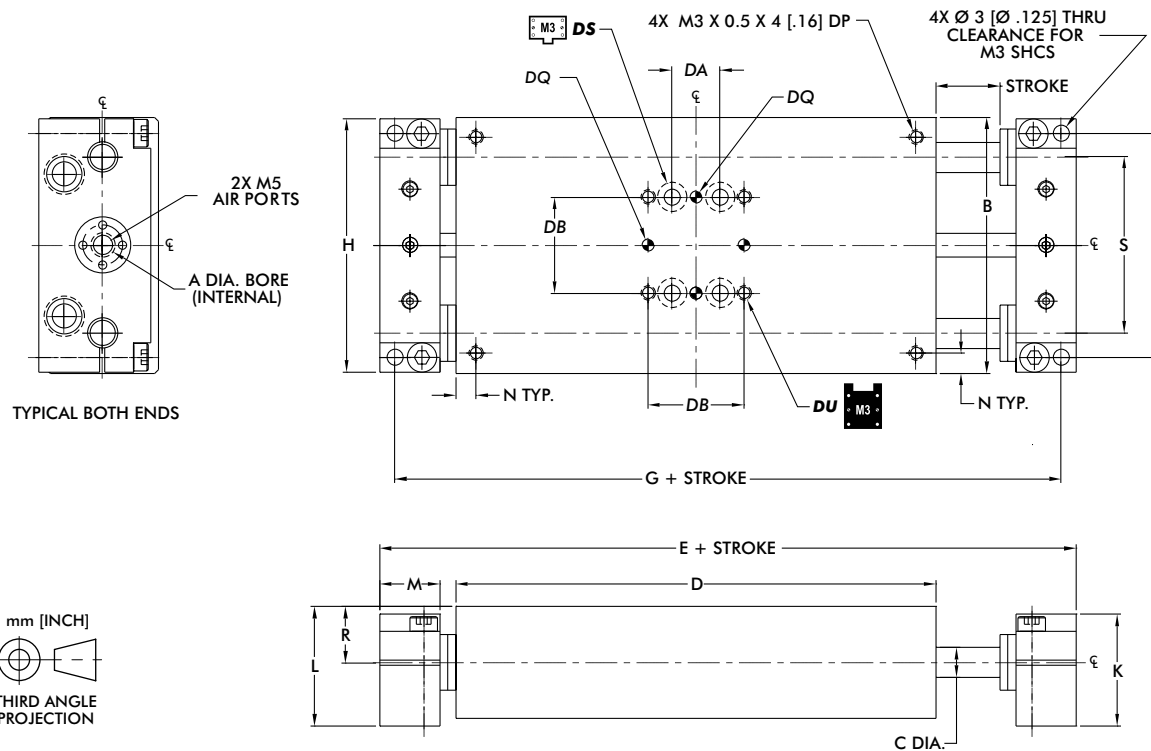
- F**=Externally applied force
- W**=Weight of payload
- F+W**=Total force
- M**=Maximum moment



	06	08
Maximum Payload (W) horizontal motion using Shock Absorbers	1.4 kg [3 lbs]	2.3 kg [5 lbs]
Maximum Payload (W) vertical motion using Shock Absorbers	0.7 kg [1.5 lbs]	1.1 kg [2.5 lbs]
Maximum Payload (W) horizontal motion using Urethane Bumpers	0.5 kg [1 lbs]	0.5 kg [1 lbs]
Maximum Total Applied Load + Payload (F+W)	45 N [10 lbs]	53.4 N [12 lbs]
Total Maximum Moment about any Axis (M)	1.7 Nm [15 in-lbs]	3.4 Nm [30 in-lbs]

Shock Absorbers and Flow Controls are recommended for all applications

Internal Air Cylinder Linear Base Slides | Dimensions and Technical Specifications



mm [INCH]
THIRD ANGLE PROJECTION

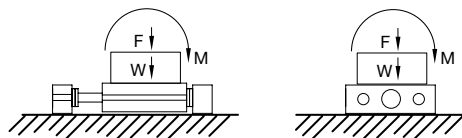
DIRECTCONNECT™ Mounting Pattern Dimensions (all sizes)				
DA	DB	DQ	DS	DU
9.5 [0.375]	19.1 [0.750]	3H7 x 2 DP	CLR & C'BORE FOR M3	M3 x 6 DP

Model	Bore Ø	Body Size	Shaft Ø	Basic Unit Dimensions										
				A	B	C	D	E	G	H	J	K	L	M
DLB-06M	14 [0.563]	50.8 [2.00]	6.0 [0.236]	95.2 [3.75]	125.5 [4.94]	119.6 [4.71]	50.3 [1.980]	44.4 [1.750]	22.2 [0.875]	23.7 [0.936]	11.9 [0.470]	3.96 [0.156]	11.13 [0.438]	34.93 [1.375]
DLB-08M		63.5 [2.50]	8.0 [0.315]	107.9 [4.25]	138.2 [5.44]	132.2 [5.206]	62.7 [2.470]	57.1 [2.250]						44.45 [1.750]

Dimensions in mm [in]

Loading Information

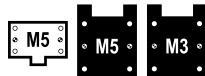
F=Externally applied force
W=Weight of payload
F+W=Total force
M=Maximum moment



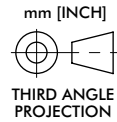
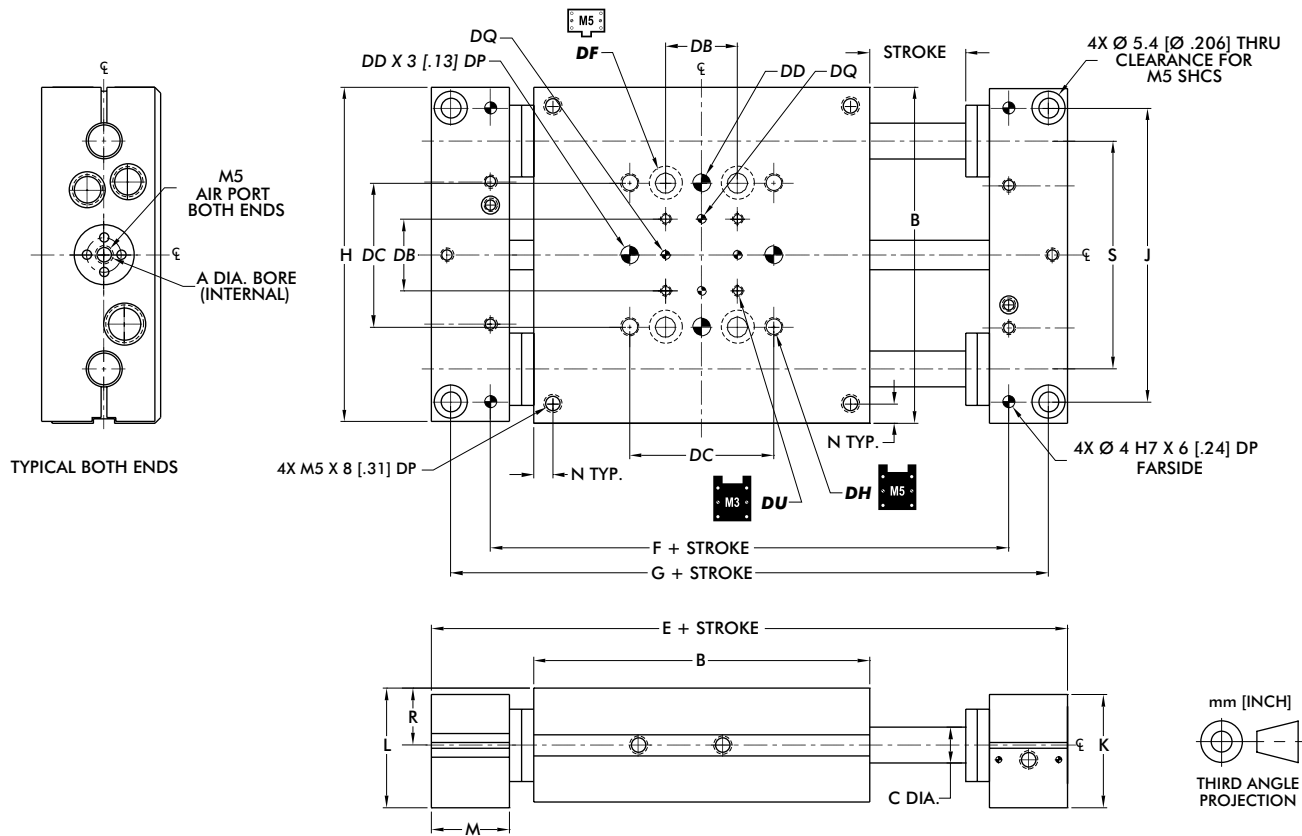
	06	08
Maximum Payload (W) horizontal motion using Shock Absorbers	1.4 kg [3 lbs]	2.3 kg [5 lbs]
Maximum Payload (W) vertical motion using Shock Absorbers	0.7 kg [1.5 lbs]	1.1 kg [2.5 lbs]
Maximum Payload (W) horizontal motion using Urethane Bumpers	0.5 kg [1 lbs]	0.5 kg [1 lbs]
Maximum Total Applied Load + Payload (F+W)	45 N [10 lbs]	53.4 N [12 lbs]
Total Maximum Moment about any Axis (M)	1.7 Nm [15 in-lbs]	3.4 Nm [30 in-lbs]

Shock Absorbers and Flow Controls are recommended for all applications

DLB-10/12/16M-B



Internal Air Cylinder Linear Base Slides | Dimensions and Technical Specifications



DIRECTCONNECT™ Mounting Pattern Dimensions (all sizes)

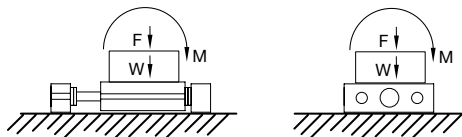
DB	DC	DD	DF	DH	DQ	DU
19.1 [0.750]	38.1 [1.500]	5mm H7 x 6 DP	CLEARANCE FOR M5	M5 x 8.5DP	3H7 x 2 DP	M3 x 6 DP

Model	Bore Ø Body Size Shaft Ø			Basic Unit Dimensions										
	A	B	C	E	F	G	H	J	K	L	M	N	R	S
DLB-10M	19 [0.75]	88.9 [3.50]	9.5 [0.375]	143.0 [5.63]	111.70 [4.3975]	132.8 [5.228]	88.5 [3.485]	77.72 [3.0600]	29.9 [1.178]	31.6 [1.245]		N/A	15.09 [0.594]	60.33 [2.375]
DLB-12M	25 [1.00]	101.6 [4.00]	12 [0.472]	155.7 [6.13]	124.40 [4.8975]	145.5 [5.728]	101.2 [3.985]	88.90 [3.5000]	41.0 [1.615]	42.1 [1.657]	20.7 [0.813]	9.5 [0.375]	20.65 [0.813]	69.85 [2.750]
DLB-16M		120.7 [4.75]	16 [0.630]	174.8 [6.88]	143.45 [5.6475]	164.5 [6.478]	120.3 [4.735]	107.95 [4.2500]						

Dimensions in mm [in]

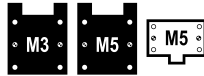
Loading Information

- F**=Externally applied force
- W**=Weight of payload
- F+W**=Total force
- M**=Maximum moment

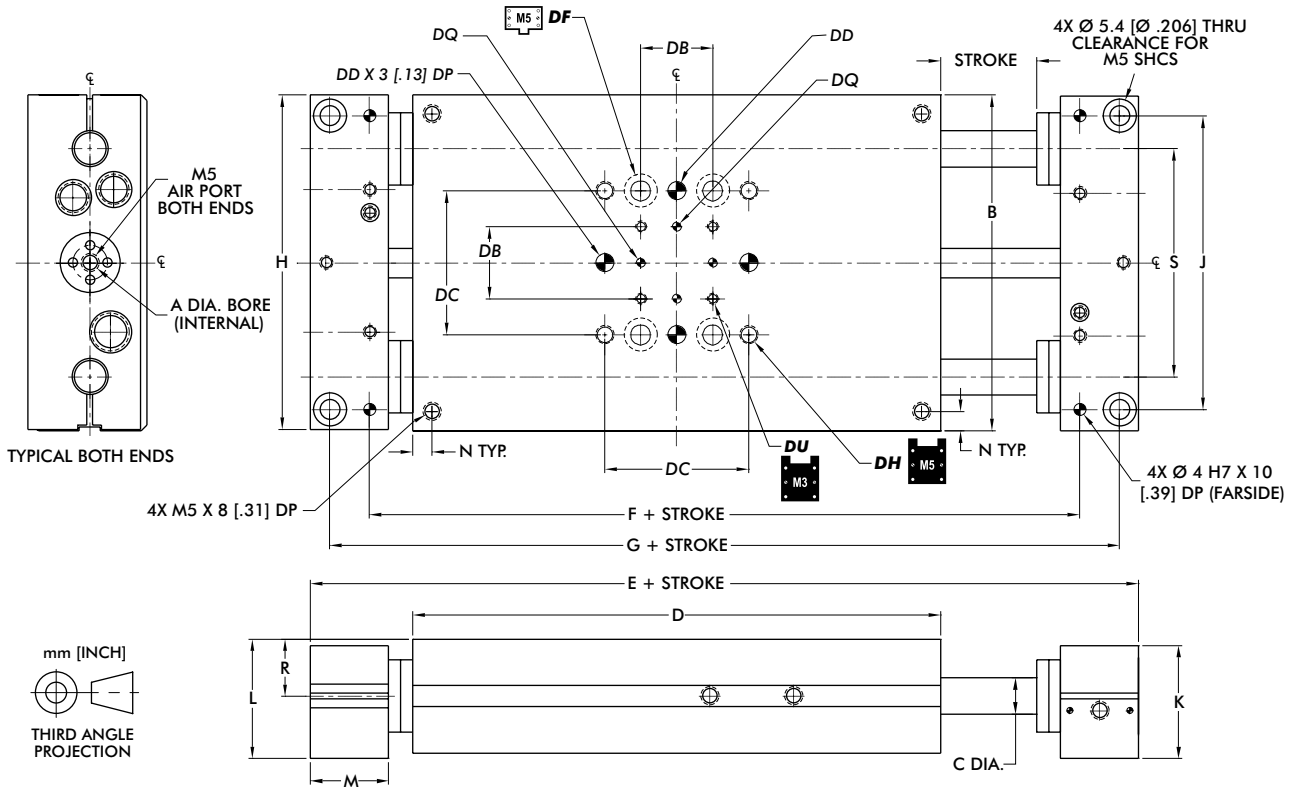


	10	12	16
Maximum Payload (W) horizontal motion using Shock Absorbers	6.8 kg [15 lbs]	13.6 kg [30 lbs]	20.4 kg [45 lbs]
Maximum Payload (W) vertical motion using Shock Absorbers	3.1 kg [7 lbs]	6.8 kg [15 lbs]	9.9 kg [22 lbs]
Maximum Payload (W) horizontal motion using Urethane Bumpers	2.2 kg [5 lbs]	4.5 kg [10 lbs]	6.8 kg [15 lbs]
Maximum Total Applied Load + Payload (F+W)	111 N [25 lbs]	178 N [40 lbs]	311 N [70 lbs]
Total Maximum Moment about any Axis (M)	8.4 Nm [75 in-lbs]	16.9 Nm [150 in-lbs]	33.9 Nm [300 in-lbs]

Shock Absorbers and Flow Controls are recommended for all applications



Internal Air Cylinder Linear Base Slides | Dimensions and Technical Specifications



DIRECTCONNECT™ Mounting Pattern Dimensions (all sizes)

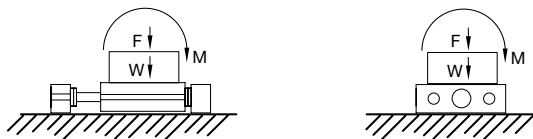
DB	DC	DD	DF	DH	DQ	DU
19.1 [0.750]	38.1 [1.500]	5mm H7 x 6 DP	CLEARANCE FOR M5	M5 x 8.5DP	3H7 x 2 DP	M3 x 6 DP

Model	Bore Ø			Basic Unit Dimensions											
	A	B	C	D	E	F	G	H	J	K	L	M	N	R	S
DLB-10M	19 [0.75]	88.9 [3.50]	9.5 [0.375]	139.7 [5.50]	193.8 [7.63]	162.50 [6.3975]	183.6 [7.228]	88.5 [3.485]	77.72 [3.0600]	29.9 [1.178]	31.6 [1.245]		N/A	15.09 [0.594]	60.33 [2.375]
DLB-12M	25 [1.00]	101.6 [4.00]	12 [0.472]	165.1 [6.50]	219.2 [8.63]	187.90 [7.3975]	209.0 [8.228]	101.2 [3.985]	88.90 [3.5000]	41.0 [1.615]	42.1 [1.657]	20.7 [0.813]	9.5 [0.375]	20.65 [0.813]	69.85 [2.750]
DLB-16M		120.7 [4.75]	16 [0.630]	190.5 [7.50]	244.6 [9.63]	213.30 [8.3975]	234.4 [9.228]	120.3 [4.735]	107.95 [4.2500]						82.55 [3.250]

Dimensions in mm [in]

Loading Information

- F**=Externally applied force
- W**=Weight of payload
- F+W**=Total force
- M**=Maximum moment



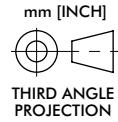
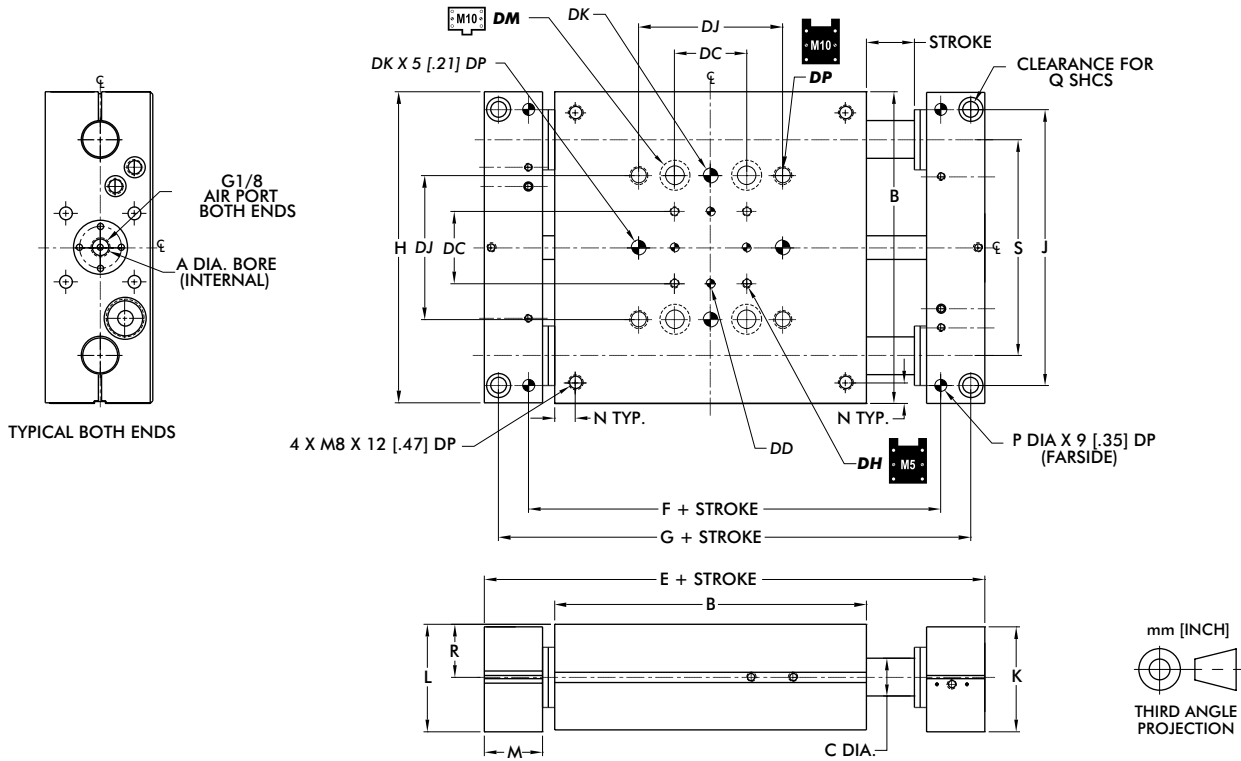
	10	12	16
Maximum Payload (W) horizontal motion using Shock Absorbers	6.8 kg [15 lbs]	13.6 kg [30 lbs]	20.4 kg [45 lbs]
Maximum Payload (W) vertical motion using Shock Absorbers	3.1 kg [7 lbs]	6.8 kg [15 lbs]	9.9 kg [22 lbs]
Maximum Payload (W) horizontal motion using Urethane Bumpers	2.2 kg [5 lbs]	4.5 kg [10 lbs]	6.8 kg [15 lbs]
Maximum Total Applied Load + Payload (F+W)	111 N [25 lbs]	178 N [40 lbs]	311 N [70 lbs]
Total Maximum Moment about any Axis (M)	8.4 Nm [75 in-lbs]	16.9 Nm [150 in-lbs]	33.9 Nm [300 in-lbs]

Shock Absorbers and Flow Controls are recommended for all applications

DLB-20/25M-B



Internal Air Cylinder Linear Base Slides | Dimensions and Technical Specifications



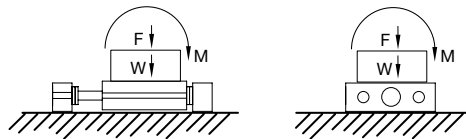
DIRECTCONNECT™ Mounting Pattern Dimensions (all sizes)						
DC	DD	DH	DJ	DK	DM	DP
38.1 [1.500]	5 mm H7 x 6 DP	M5 x 8.5 DP	76.2 [3.000]	8 mm H7 x 9.4 DP	CLR & C'BORE FOR M10	M10 x 12 DP

Model	Bore Ø	Body Size	Shaft Ø	Basic Unit Dimensions												
				A	B	C	E	F	G	H	J	K	L	M	N	P
DLB-20M	38 [1.50]	165.1 [6.50]	20 [0.787]	239.3 [9.42]	192.66 [7.5850]	224.4 [8.836]	164.6 [6.480]	146.05 [5.7500]	55.4 [2.180]	56.8 [2.236]	[1.210] 30.7	11.1 [0.438]	6.00 [0.2505]	M8	27.94 [1.100]	114.30 [4.500]
DLB-25M		190.5 [7.50]	25 [0.984]	275.3 [10.84]	221.79 [8.7320]	256.7 [10.108]	190.0 [7.480]	171.45 [6.7500]			[1.420] 36.1		8.00 [0.3130]			M10

Dimensions in mm [in]

Loading Information

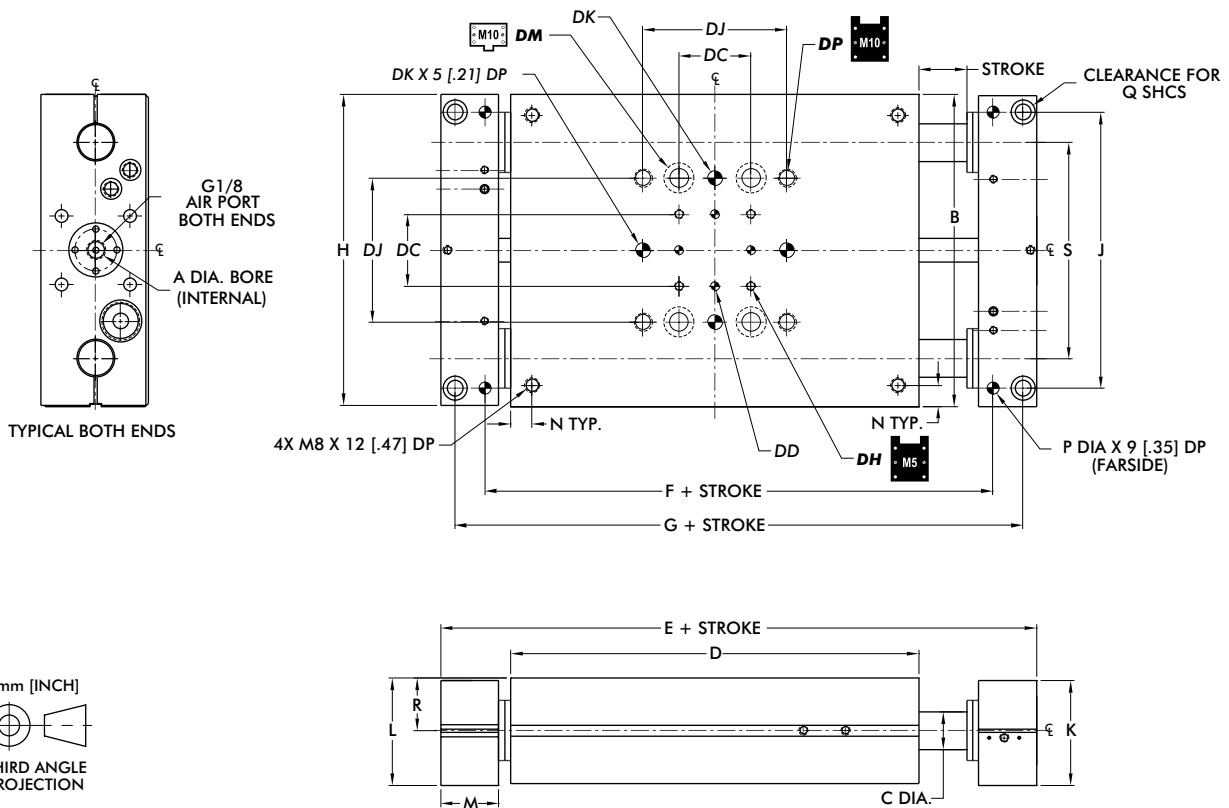
- F=Externally applied force
- W=Weight of payload
- F+W=Total force
- M=Maximum moment



	20	25
Maximum Payload (W) horizontal motion using Shock Absorbers	27.2 kg [60 lbs]	45.3 kg [100 lbs]
Maximum Payload (W) vertical motion using Shock Absorbers	13.6 kg [30 lbs]	22.0 kg [50 lbs]
Maximum Payload (W) horizontal motion using Urethane Bumpers	9.1 kg [20 lbs]	11.3 kg [25 lbs]
Maximum Total Applied Load + Payload (F+W)	444 N [100 lbs]	667 N [150 lbs]
Total Maximum Moment about any Axis (M)	67.7 Nm [600 in-lbs]	135.5 Nm [1200 in-lbs]

Shock Absorbers and Flow Controls are recommended for all applications

Internal Air Cylinder Linear Base Slides | Dimensions and Technical Specifications



DIRECTCONNECT™ Mounting Pattern Dimensions (all sizes)

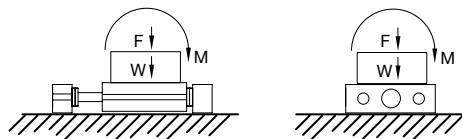
DC	DD	DH	DJ	DK	DM	DP
38.1 [1.500]	5 mm H7 x 6 DP	M5 x 8.5 DP	76.2 [3.000]	8 mm H7 x 9.4 DP	CLR & C'BORE FOR M10	M10 x 12 DP

Model	Bore Ø	Body Size	Shaft Ø	Basic Unit Dimensions													
				A	B	C	D	E	F	G	H	J	K	L	M	N	P
DLB-20M	38 [1.5]	165.1 [6.50]	20 [0.787]	215.9 [8.50]	290.1 [11.42]	243.46 [9.5850]	275.2 [10.836]	164.6 [6.480]	146.05 [5.7500]	55.4 [2.180]	56.8 [2.236]	30.7 [1.210]	11.1 [0.438]	6.00 [0.2505]	M8	27.94 [1.100]	114.30 [4.500]
DLB-25M		190.5 [7.50]	25 [0.984]	241.3 [9.50]	326.1 [12.84]	272.59 [10.7320]	307.5 [12.108]	190.0 [7.480]	171.45 [6.7500]	55.4 [2.180]		36.1 [1.420]		8.00 [0.3130]			M10

Dimensions in mm [in]

Loading Information

- F**=Externally applied force
- W**=Weight of payload
- F+W**=Total force
- M**=Maximum moment



	20	25
Maximum Payload (W) horizontal motion using Shock Absorbers	27.2 kg [60 lbs]	45.3 kg [100 lbs]
Maximum Payload (W) vertical motion using Shock Absorbers	13.6 kg [30 lbs]	22.0 kg [50 lbs]
Maximum Payload (W) horizontal motion using Urethane Bumpers	9.1 kg [20 lbs]	11.3 kg [25 lbs]
Maximum Total Applied Load + Payload (F+W)	444 N [100 lbs]	667 N [150 lbs]
Total Maximum Moment about any Axis (M)	67.7 Nm [600 in-lbs]	[1200 in-lbs]

Shock Absorbers and Flow Controls are recommended for all applications

DLB SERIES - EXTERNAL AIR CYLINDER

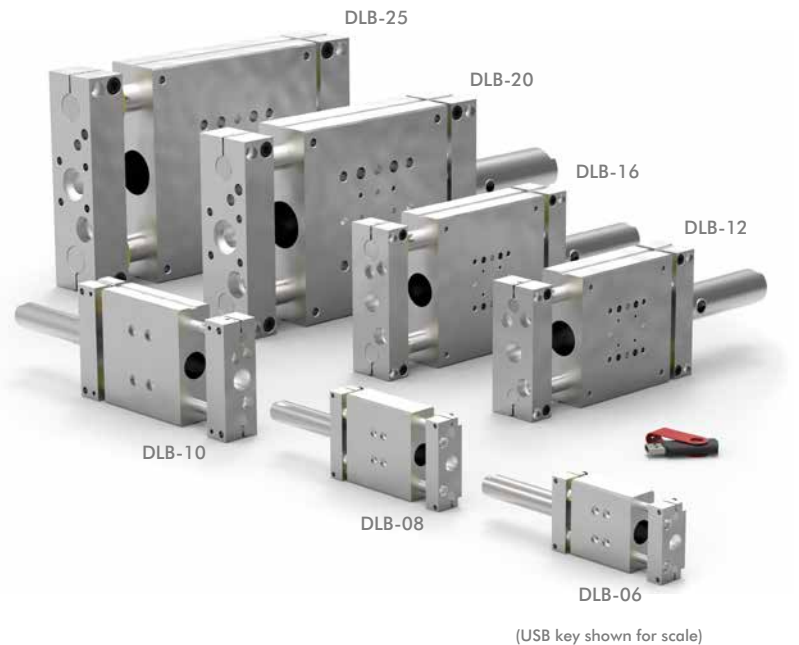
External Air Cylinder Linear Base Slides | Features and Benefits | How To Order

Features:

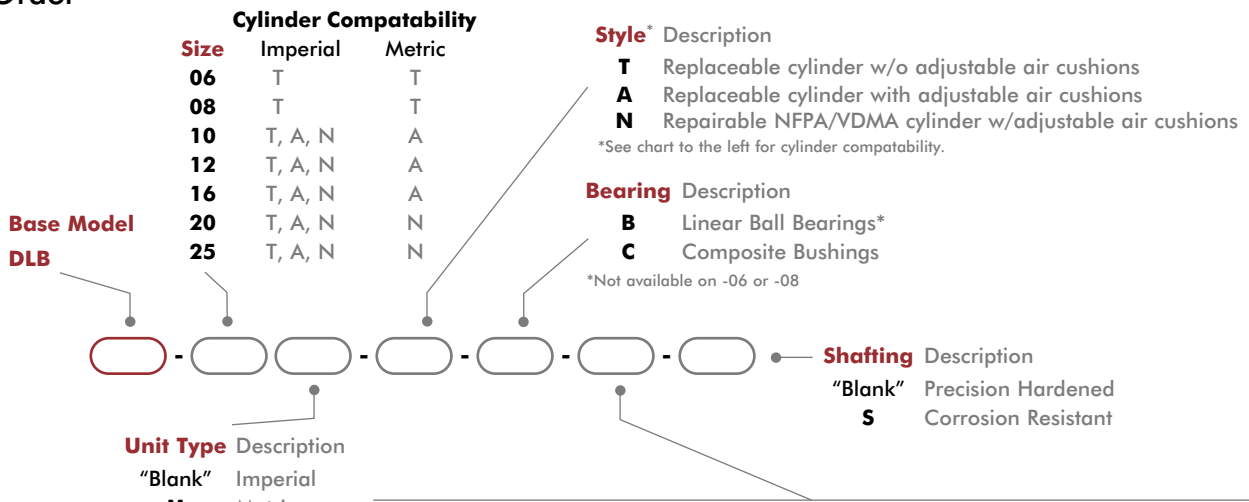
- Bearing system for smooth operation
- Rugged design produces very reliable long life operation
- Replaceable air cylinder with adjustable cushions
- Urethane bumpers, hardened pads, oil wick
- Optional telescopic airlines transfers air to tooling
- DIRECTCONNECT™ mounting pattern
- Corrosion resistant shafting for corrosive environments
- Position sensing using inductive or magneto resistive sensors

Applications:

- Machining and automation applications
- Harsh environment pick-and-place applications
- OEM Part Transfers applications
- X Y Cartesian Table Applications



How To Order



Size	Style	Stroke* Imperial (in)
DLT-06	T	.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6
DLT-08	T	.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6, 7, 8
DLT-10	T, A, N	1-12 @ 1" increments
DLT-12	T, A, N	1-16 @ 1" increments
DLT-16	T, A, N	1-20 @ 1" increments
DLT-20	T, A, N	1-24 @ 1" increments
DLT-25	T, A, N	1-26 @ 1" increments

Size	Style	Stroke* Metric (mm)
DLT-06M	T	10, 25, 40, 50, 75, 100, 125, 160
DLT-08M	T	10, 25, 40, 50, 75, 100, 125, 160, 175, 200
DLT-10M	A	25, 50, 80, 100, 125, 160, 200, 250, 300
DLT-12M	A	25, 50, 80, 100, 125, 160, 200, 250, 300, 320, 360, 400
DLT-16M	A	25, 50, 80, 100, 125, 160, 200, 250, 300, 320, 360, 400, 500
DLT-20M	N	25, 50, 80, 100, 125, 160, 200, 250, 300, 320, 360, 400, 500
DLT-25M	N	25, 50, 80, 100, 125, 160, 200, 250, 300, 320, 360, 400, 500

*Custom strokes available. Consult factory.

DLB SERIES - EXTERNAL AIR CYLINDER

External Air Cylinder Linear Base Slides | Accessories

Shock/Stop Accessories	Model Sizes	Style	Part Number	Qty/Unit
Shock Absorber	06, 08	All	SHOK-030	1-2
	10		SHOK-028	
	12, 16,		SHOK-010	
	20, 25		SHOK-029	
Adjustable Hard Stop	06, 08		DLT-0623	
	10, 12, 16, 20, 25		DLT-1023	

Sensor Accessories	Model Sizes	Style	Part Number	Qty/Unit
PNP Inductive Sensor with Quick Disconnect*	All Models	All	OISP-011	1-2
NPN Inductive Sensor with Quick Disconnect*			OISN-011	
PNP Magneto Resistive Sensor w/Qk Disconnect*	06, 08, 10, 12, 16	T, A, N	OHSP-005	
NPN Magneto Resistive Sensor w/Quick Disconnect*			OHSN-005	
PNP Magneto Resistive Sensor w/Qk Disconnect*	20, 25	N	OHSP-020	
NPN Magneto Resistive Sensor w/Qk Disconnect*			OHSN-020	
Quick Disconnect 2 Meter Cable Length*	All Models	All	CABL-010	
Quick Disconnect 5 Meter Cable Length*			CABL-013	
Cable Extension Cord 1M Length*	All Models	All	CABL-015	
Cable Extension Cord 2M Length*			CABL-016	

Pneumatic Accessories	Model Sizes	Style	Part Number	Qty/Unit
1/8 NPT Telescopic Airlines (up to 6")	10, 12, 16	All	OTAL-039	1-4
1/8 NPT Telescopic Airlines (up to 12")	10, 12, 16		OTAL-040	
1/8 NPT Telescopic Airlines (up to 18")	10, 12, 16, 20, 25		OTAL-041	
1/8 NPT Telescopic Airlines (up to 24")	20, 25		OTAL-042	
#10-32 NPT Adjustable Flow Control	06, 08		VLVF-007	1-2
1/8 NPT Adjustable Flow Control	10, 12, 16, 20, 25		VLVF-004	
G1/8 Telescopic Airlines (up to 160mm)	10, 12, 16		OTAL-045	1-4
G1/8 Telescopic Airlines (up to 300mm)	10, 12, 16		OTAL-046	
G1/8 Telescopic Airlines (up to 450mm)	10, 12, 16, 20, 25		OTAL-047	
G1/8 Telescopic Airlines (up to 600mm)	20, 25		OTAL-048	
G1/8 Adjustable Flow Control	10, 12, 16, 20, 25		VLVF-005	1-2
G1/8 Male to 1/8 NPT Adapter	20, 25		PLFT-025	

*Sensor and cable sold separately.

See page GR-LIN-35 for Accessory Mounting Technical Data.

DLB SERIES - EXTERNAL AIR CYLINDER

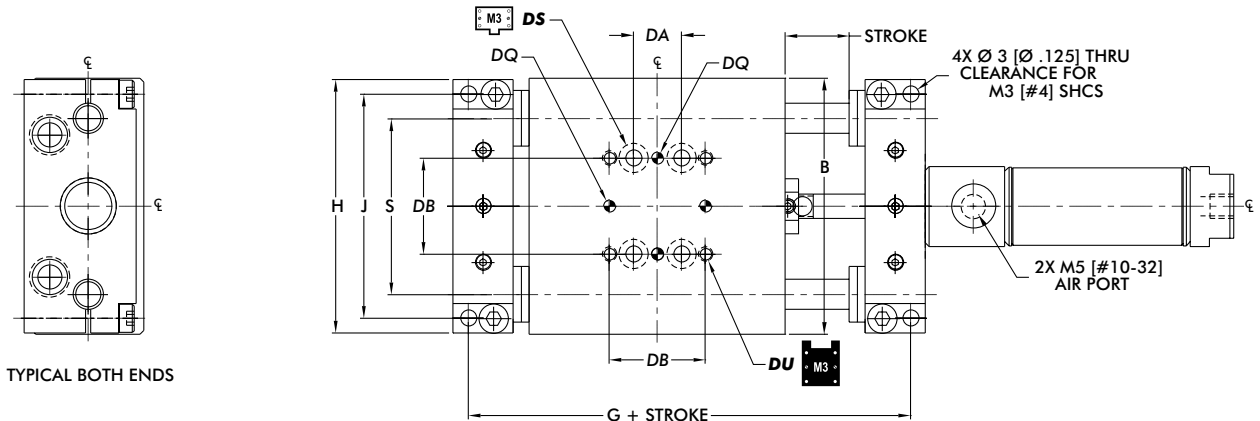
External Air Cylinder Linear Base Slides | Technical Specifications

Specifications	Units	06	08	10	12
Max. Air Pressure	bar [psi]	7 [100]			
Thrust Force @ 5.5 bar [80psi]	N [lbs]	89 [20]		145 [31]	289 [65]
Weight (basic unit)	kg [lb]	0.15 [0.34]	0.31 [0.69]	0.90 [1.98]	1.66 [3.73]
Additional Weight per Stroke	g/mm [lbs/in]	0.88 [0.05]	1.23 [0.07]	1.4 [0.09]	2.9 [0.16]
Cylinder Bore Ø	mm [in]	16 [0.563]		20 [0.75]	25 [1.00]
Shaft Ø	mm [in]	6 [0.236]	8 [0.315]	9.5 [0.375]	12 [0.472]
Maximum Moment Load	N-m [in-lbs]	1.7 [15]	3.4 [30]	8.4 [75]	16.9 [150]

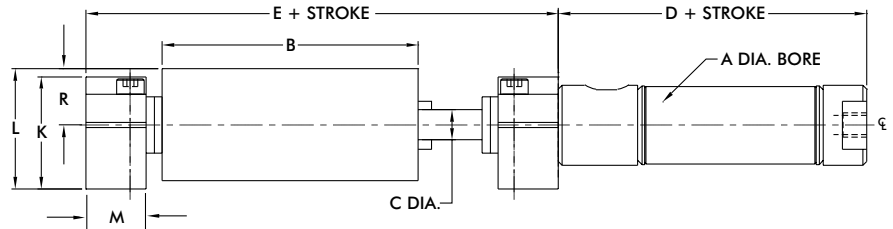
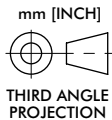
Specifications	Units	16	20	25
Max. Air Pressure	bar [psi]	7 [100]		
Thrust Force @ 5.5 bar [80psi]	N [lbs]	289 [65]	578 [130]	578 [130]
Weight (basic unit)	kg [lb]	2.3 [5.03]	5.9 [12.9]	8.3 [18.0]
Additional Weight per Stroke	g/mm [lbs/in]	4.2 [0.23]	9.5 [0.53]	12.1 [0.68]
Cylinder Bore Ø	mm [in]	25 [1.00]	32 [1.25]	32 [1.25]
Shaft Ø	mm [in]	16 [0.630]	20 [0.787]	25 [0.984]
Maximum Moment Load	N-m [in-lbs]	33.9 [300]	67.8 [600]	135 [1200]



External Air Cylinder Linear Base Slides | Dimensions and Technical Specifications



TYPICAL BOTH ENDS

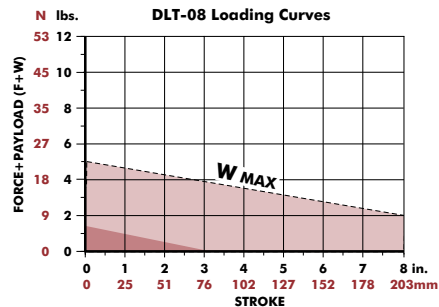
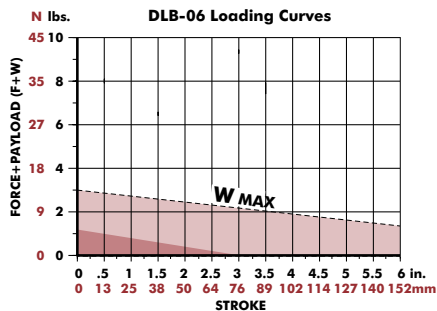


DIRECTCONNECT™ Mounting Pattern Dimensions (all sizes)				
DA	DB	DQ	DS	DU
9.5 [0.375]	19.1 [0.750]	3H7 x 2 DP [0.0940 x 0.078 DP]	CLR & C'BORE FOR M3 [CLR & C'BORE FOR #4]	M3 x 6 DP [#4-40 x .25 DP]

Model	Bore Ø			Body Size			Shaft Ø			Basic Unit Dimensions						
	A	B	C	D	E	G	H	J	K	L	M	R	S			
DLB-06	16 [0.563]	50.8 [2.00]	6.0 [0.236]	48.4 [1.91]	81.0 [3.19]	75.1 [2.956]	50.3 [1.980]	44.4 [1.750]	22.2 [0.875]	23.7 [0.936]	11.9 [0.470]	11.13 [0.438]	34.93 [1.375]			
DLB-08		63.5 [2.50]	8.0 [0.315]		93.7 [3.69]	87.8 [3.456]	62.7 [2.470]	57.1 [2.250]					44.45 [1.750]			

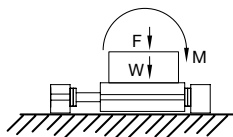
Dimensions in mm [in]

Loading Information



Shock Absorbers and Flow Controls are recommended for all applications

F=Externally applied force
W=Weight of payload
F+W=Total force

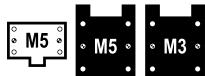


(W) in this range use **Single Shock** in both directions

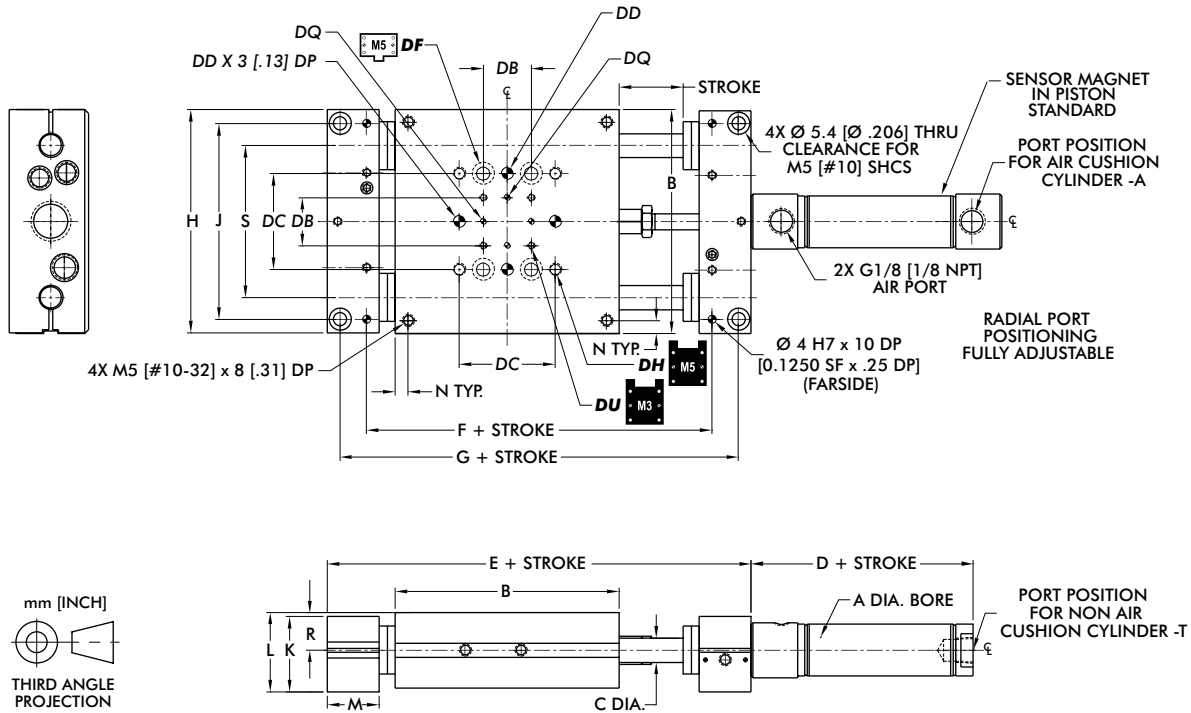
(W) in this range use **Bumpers or Cushioned Cylinder**

Shaded shock absorption ranges of horizontal payload (W) @ 80psi, flow controls fully open. For vertical applications do not exceed 1/2 of the recommended payload due to the additional acceleration effect of gravity.

DLB-10/12/16-T, A



External Air Cylinder Linear Base Slides | Dimensions and Technical Specifications



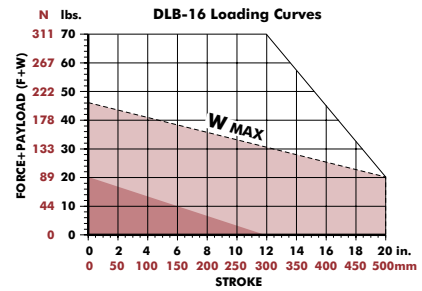
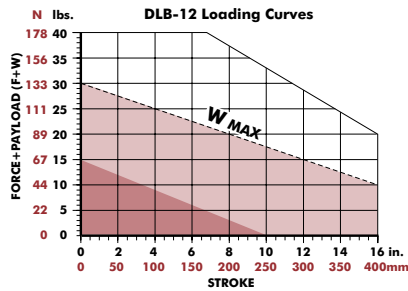
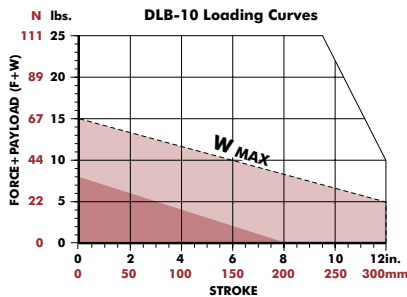
DIRECTCONNECT™ Mounting Pattern Dimensions (all sizes)

DB	DC	DD	DF	DH	DQ	DU
19.1 [0.750]	38.1 [1.500]	5mm H7 x 6 DP [0.1880 x 0.25 DP]	CLR & C'BORE FOR M5 [CLR & C'BORE FOR #10]	M5 x 8.5 DP [#10-32 x 0.34 DP]	3H7 x 2 DP [0.0940 x 0.078 DP]	M3 x 6 DP [#4-40 x 0.25 DP]

Model	Bore Ø Body Size Shaft Ø			Basic Unit Dimensions											
	A	B	C	D	E	F	G	H	J	K	L	M	N	R	S
DLB-10	20 [0.75]	88.9 [3.50]	9.5 [0.375]	88.0 [2.91]	149.4 [5.63]	118.05 [4.3975]	139.1 [5.228]	88.5 [3.485]	77.7 [3.060]	29.9 [1.178]	31.6 [1.245]		N/A	15.09 [0.594]	60.33 [2.375]
DLB-12	25 [1 1/16]	101.6 [4.00]	12 [0.472]	91.5 [2.88]	162.1 [6.13]	130.75 [4.8975]	151.8 [5.728]	101.2 [3.985]	88.9 [3.500]	41.0 [1.615]	42.1 [1.657]	20.7 [0.813]	9.5 [0.375]	20.65 [0.813]	69.85 [2.750]
DLB-16		120.7 [4.75]	16 [0.630]		181.1 [6.88]	149.80 [5.6475]	170.9 [6.478]	120.3 [4.735]	107.9 [4.250]						82.55 [3.250]

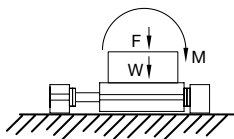
Dimensions in mm [in]

Loading Information



Shock Absorbers and Flow Controls are recommended for all applications

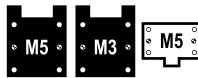
F=Externally applied force
 W=Weight of payload
 F+W=Total force



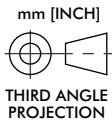
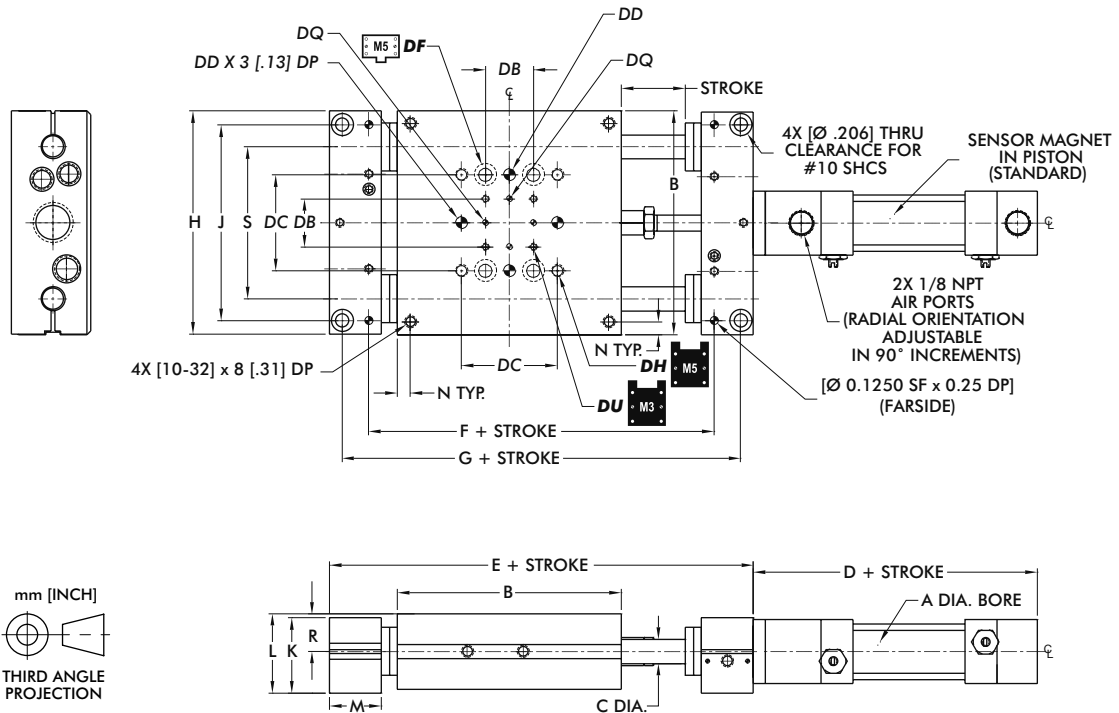
(W) in this range use **Single Shock** in both directions

(W) in this range use **Bumpers or Cushioned Cylinder**

Shaded shock absorption ranges of horizontal payload (W) @ 80psi, flow controls fully open. For vertical applications do not exceed 1/2 of the recommended payload due to the additional acceleration effect of gravity.



External Air Cylinder Linear Base Slides | Dimensions and Technical Specifications



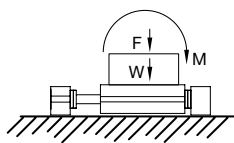
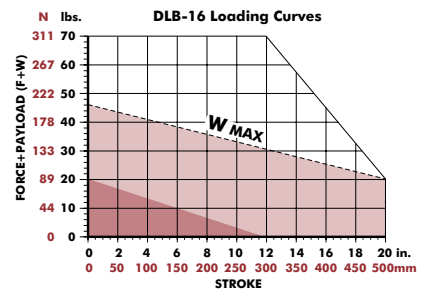
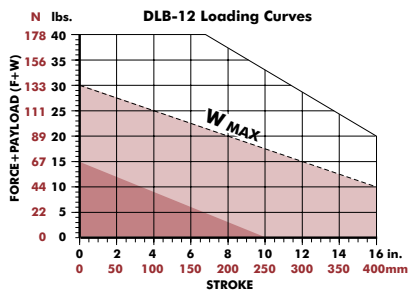
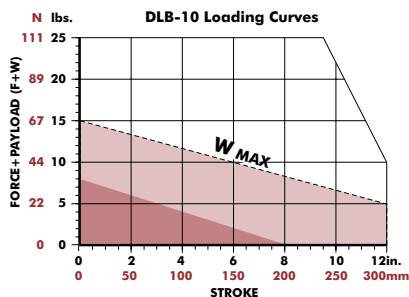
DIRECTCONNECT™ Mounting Pattern Dimensions (all sizes)

DB	DC	DD	DF	DH	DQ	DU
19.1 [0.750]	38.1 [1.500]	[0.1880 x 0.25 DP]	[CLR & C'BORE FOR #10]	[#10-32 x 0.34 DP]	[0.0940 x 0.078 DP]	[#4-40 x .25 DP]

Model	Bore Ø Body Size Shaft Ø			Basic Unit Dimensions											
	A	B	C	D	E	F	G	H	J	K	L	M	N	R	S
DLB-10	20 [0.75]	88.9 [3.50]	9.5 [0.375]		149.4 [5.63]	118.05 [4.3975]	139.1 [5.228]	88.5 [3.485]	77.7 [3.060]	29.9 [1.178]	31.6 [1.245]		N/A	15.09 [0.594]	60.33 [2.375]
DLB-12	25 [1 1/8]	101.6 [4.00]	12 [0.472]	87.4 [3.44]	162.1 [6.13]	130.75 [4.8975]	151.8 [5.728]	101.2 [3.985]	88.9 [3.500]	41.0 [1.615]	42.1 [1.657]	20.7 [0.813]	9.5 [0.375]	20.65 [0.813]	69.85 [2.750]
DLB-16		120.7 [4.75]	16 [0.630]		181.1 [6.88]	149.80 [5.6475]	170.9 [6.478]	120.3 [4.735]	107.9 [4.250]						82.55 [3.250]

Dimensions in mm [in]

Loading Information



F=Externally applied force
W=Weight of payload
F+W=Total force

Shock Absorbers and Flow Controls are recommended for all applications

(W) in this range use **Single Shock** in both directions

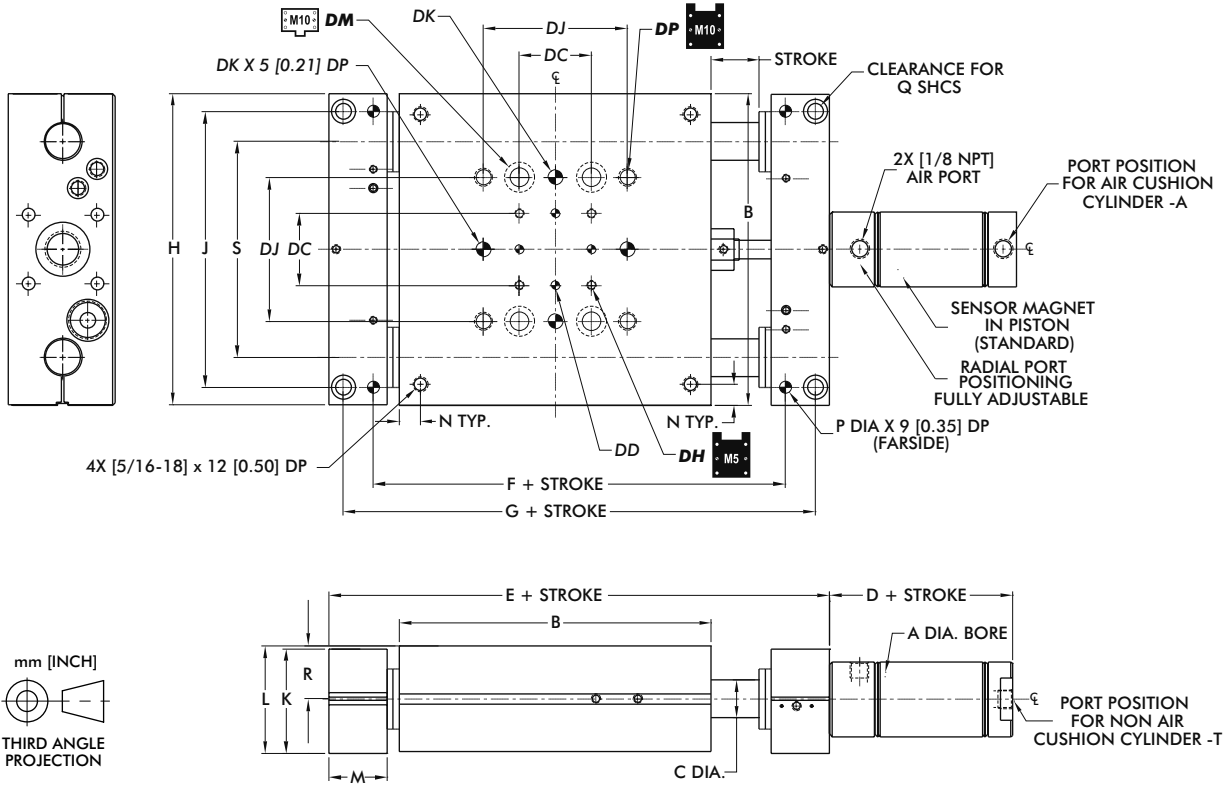
(W) in this range use **Bumpers or Cushioned Cylinder**

Shaded shock absorption ranges of horizontal payload (W) @ 80psi, flow controls fully open. For vertical applications do not exceed 1/2 of the recommended payload due to the additional acceleration effect of gravity.

DLB-20/25-T, A



External Air Cylinder Linear Base Slides | Dimensions and Technical Specifications

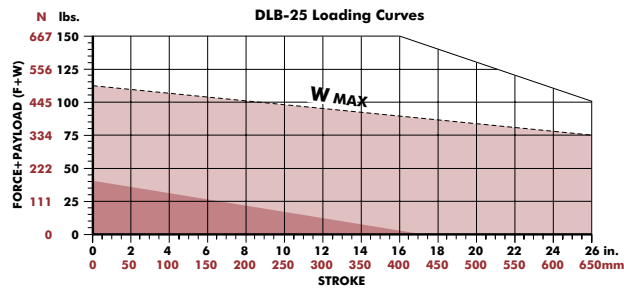
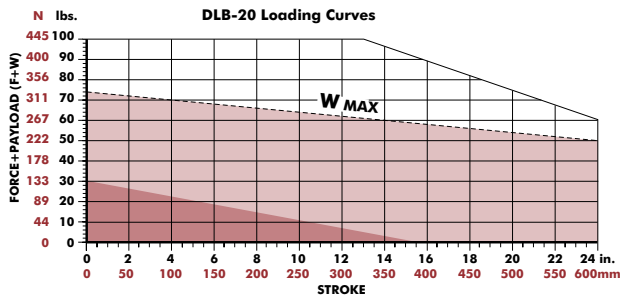


DIRECTCONNECT™ Mounting Pattern Dimensions (all sizes)						
DC	DD	DH	DJ	DK	DM	DP
38.1 [1.500]	[0.1880 x 0.25 DP]	[#10-32 x 0.38 DP]	76.2 [3.000]	[0.3130 x 0.37 DP]	[CLR & C'BORE FOR 3/8]	[3/8-16 x .50 DP]

Model	Bore Ø Body Ø Shaft Ø			Basic Unit Dimensions														
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	
DLB-20	38.1 [1 1/2]	165.1 [6.50]	20 [0.787]	76.2 [3.00]	239.3 [9.42]	192.66 [7.5850]	224.4 [8.836]	164.6 [6.480]	146.05 [5.7500]	55.4 [2.180]	56.8 [2.236]	30.7 [1.210]	11.1 [0.438]	6.00 [0.2505]	M8	27.94 [1.100]	114.30 [4.500]	
DLB-25		190.5 [7.50]	25 [0.984]		275.3 [10.84]	221.79 [8.7320]	256.7 [10.108]	190.0 [7.480]	171.45 [6.7500]			36.1 [1.420]		8.00 [0.3130]	M10		113.35 [5.250]	

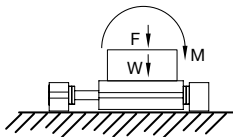
Dimensions in mm [in]

Loading Information



Shock Absorbers and Flow Controls are recommended for all applications

F=Externally applied force
W=Weight of payload
F+W=Total force

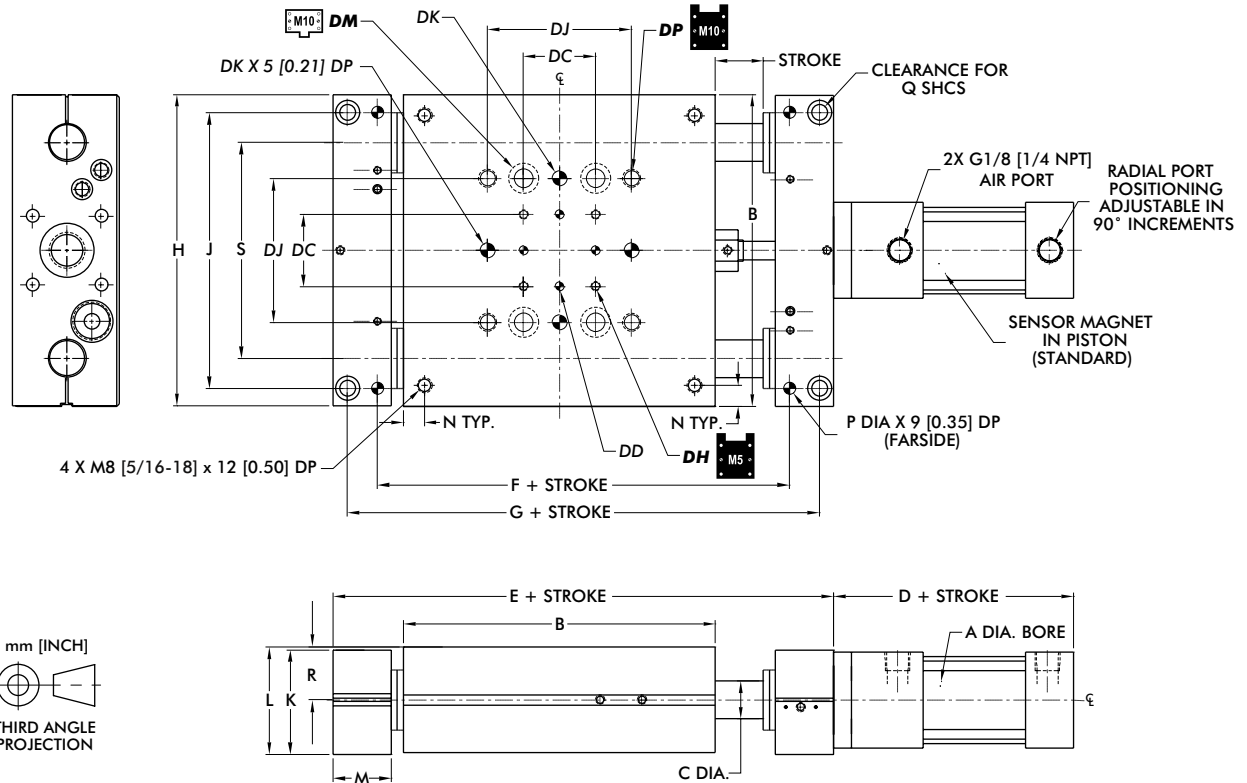


(W) in this range use **Single Shock** in both directions

(W) in this range use **Bumpers or Cushioned Cylinder**

Shaded shock absorption ranges of horizontal payload (W) @ 80psi, flow controls fully open. For vertical applications do not exceed 1/2 of the recommended payload due to the additional acceleration effect of gravity.

External Air Cylinder Linear Base Slides | Dimensions and Technical Specifications



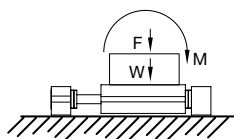
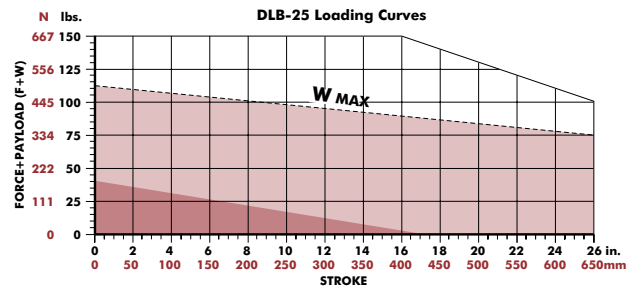
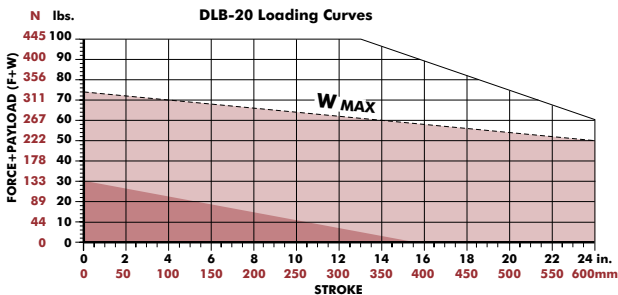
DIRECTCONNECT™ Mounting Pattern Dimensions (all sizes)

DC	DD	DH	DJ	DK	DM	DP
38.1 [1.500]	5 mm H7 x 6 DP [0.1880 x 0.25 DP]	M5 x 9 DP [#10-32 x 0.38 DP]	76.2 [3.000]	8 mm H7 x 9.4 DP [0.3130 x 0.37 DP]	CLR & C'BORE FOR M10 [CLR & C'BORE FOR 3/8]	M10 x 12 DP [3/8-16 x 0.50 DP]

Model	Bore Ø Body Ø Shaft Ø			Basic Unit Dimensions													
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
DLB-20	38.1 [1 1/2]	165.1 [6.50]	20 [0.787]	92.2 [3.63]	239.3 [9.42]	192.66 [7.5850]	224.4 [8.836]	164.6 [6.480]	146.05 [5.7500]	55.4 [2.180]	56.8 [2.236]	30.7 [1.210]	11.1 [0.438]	6.00 [0.2505]	M8	27.94 [1.100]	114.30 [4.500]
DLB-25		190.5 [7.50]	25 [0.984]		275.3 [10.84]	221.79 [8.7320]	256.7 [10.108]	190.0 [7.480]	171.45 [6.7500]			36.1 [1.420]		8.00 [0.3130]	M10		113.35 [5.250]

Dimensions in mm [in]

Loading Information



F=Externally applied force
W=Weight of payload
F+W=Total force

Shock Absorbers and Flow Controls are recommended for all applications

(W) in this range use **Single Shock** in both directions

(W) in this range use **Bumpers or Cushioned Cylinder**

Shaded shock absorption ranges of horizontal payload (W) @ 80psi, flow controls fully open. For vertical applications do not exceed 1/2 of the recommended payload due to the additional acceleration effect of gravity.

DLT SERIES - INTERNAL AIR CYLINDER

Internal Air Cylinder Linear Thruster Slides | Features and Benefits | How To Order

Features:

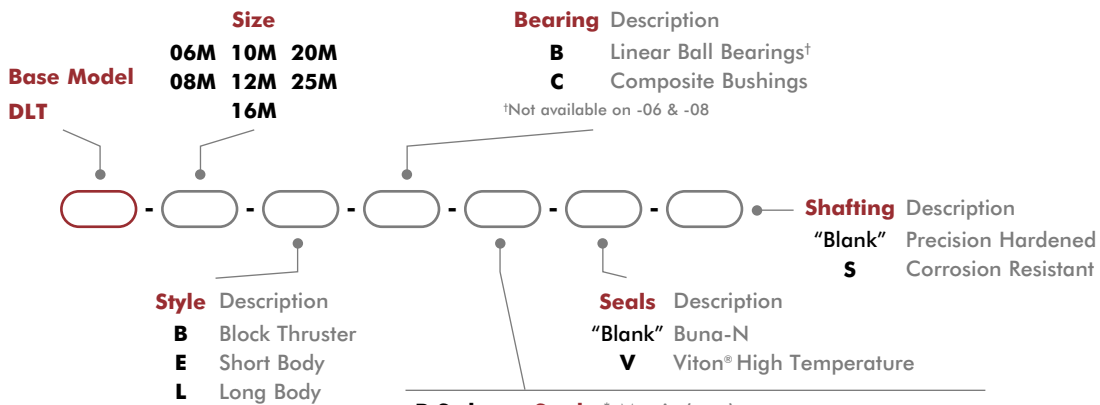
- 3 Models: **-B** block style, **-E** short body & **-L** long body
- Bearing system for smooth operation
- Rugged design produces very reliable long life operation
- Internal air cylinder for space-limited applications
- Urethane bumpers, hardened pads, oil wick
- Optional telescopic airlines transfers air to tooling
- DIRECTCONNECT™ mounting pattern
- Corrosion resistant shafting for corrosive environments
- Position sensing using inductive or magneto resistive sensors
- Viton® seals for high temperature applications

Applications:

- Machining, harsh environment, pick-and-place automation applications
- Lift table applications



How To Order



-B Style	Stroke* Metric (mm)
DLT-06M-B	6, 12, 25, 30
DLT-08M-B	6, 12, 25, 30, 40, 44
DLT-10M-B	12, 25, 40, 50
DLT-12M-B	12, 25, 40, 50
DLT-16M-B	12, 25, 40, 50, 65, 75
DLT-20M-B	12, 25, 40, 50, 65, 75, 85, 100
DLT-25M-B	12, 25, 40, 50, 65, 75, 85, 100, 115, 125
-E Style	Stroke* Metric (mm)
DLT-06M-E	6, 12, 25, 30
DLT-08M-E	6, 12, 25, 40, 44
DLT-10M-E	25, 50
DLT-12M-E	25, 50
DLT-16M-E	25, 50, 75
DLT-20M-E	25, 50, 75, 100
DLT-25M-E	25, 50, 75, 100, 125
-L Style	Stroke* Metric (mm)
DLT-06M-L	12, 25, 40, 50, 65, 75
DLT-08M-L	12, 25, 40, 50, 65, 75, 85
DLT-10M-L	25, 50, 80, 100
DLT-12M-L	25, 50, 80, 100, 125
DLT-16M-L	25, 50, 80, 100, 125, 150
DLT-20M-L	25, 50, 75, 100, 125, 160
DLT-25M-L	25, 50, 75, 100, 125, 160, 175

*Custom strokes available. Consult factory.

DLT SERIES - INTERNAL AIR CYLINDER

Internal Air Cylinder Linear Thruster Slides | Accessories

Shock/Stop & Mounting Accessories	Model Numbers	Style	Part Number	Qty/Unit	
Universal Mounting Kit (Stop/Shock)	06	All	OSAK-069	1-2 on -B	
	08		OSAK-070		
Universal Mounting Kit (Stop/Shock/Sensor)	10		OSAK-055		
	12		OSAK-057		
	16		OSAK-059		
	20		OSAK-061		
	25		OSAK-063		
Shock Absorber	06, 08		SHOK-030		1-4 on -E, -L
	10		SHOK-028		
	12, 16,		SHOK-010		
	20, 25	SHOK-029			
Adjustable Hard Stop	06, 08	DLT-0623			
	10, 12, 16, 20, 25	DLT-1023			
Urethane Bumper/Stop Collar Kit	06	E, L	OSAK-067	1	
	08		OSAK-068		
	10		OSAK-065		
	12		OSAK-066		
	16		OSAK-060		
	20		OSAK-062		
Base Flange Kit	25	OSAK-064			
	See Datasheet	B	--		

Sensor Accessories	Model Numbers	Style	Part Number	Qty/Unit	
Inductive Sensor Mounting Kit	06	All	OSMK-076	1 on -B	
	08		OSMK-077		
PNP Inductive Sensor with Quick Disconnect*	06, 08		OISP-014		
NPN Inductive Sensor with Quick Disconnect*			OISN-014		
PNP Inductive Sensor with Quick Disconnect*	10, 12, 16, 20, 25		OISP-011		1-2 on -E, -L
NPN Inductive Sensor with Quick Disconnect*			OISN-011		
PNP Magneto Resistive with Quick Disconnect*			All Models		
NPN Magneto Resistive with Quick Disconnect*	OHSN-017				
Quick Disconnect 2 Meter Cable Length*	All Models				CABL-010
Quick Disconnect 5 Meter Cable Length*			CABL-013		

*Sensor and cable sold separately.

Pneumatic Accessories	Model Numbers	Style	Part Number	Qty/Unit
G1/8 Telescopic Airlines (up to 50mm)	10, 12, 16	B, E	OTAL-043	1-4
G1/8 Telescopic Airlines (up to 80mm)		B, E, L	OTAL-044	
G1/8 Telescopic Airlines (up to 100mm)	20, 25	B, E	OTAL-051	
G1/8 Telescopic Airlines (up to 125mm)			OTAL-052	
G1/8 Telescopic Airlines (up to 160mm)	10, 12, 16	L	OTAL-045	
G1/8 Telescopic Airlines (up to 300mm)	20, 25		OTAL-046	
M5 Adjustable Flow Control	06, 08, 10, 12, 16	All	VLVF-008	1-2
G1/8 Adjustable Flow Control	20, 25		VLVF-005	
Seal Kits	See Datasheets			1

See page GR-LIN-36 for Accessory Mounting Technical Data.

DLT SERIES - INTERNAL AIR CYLINDER

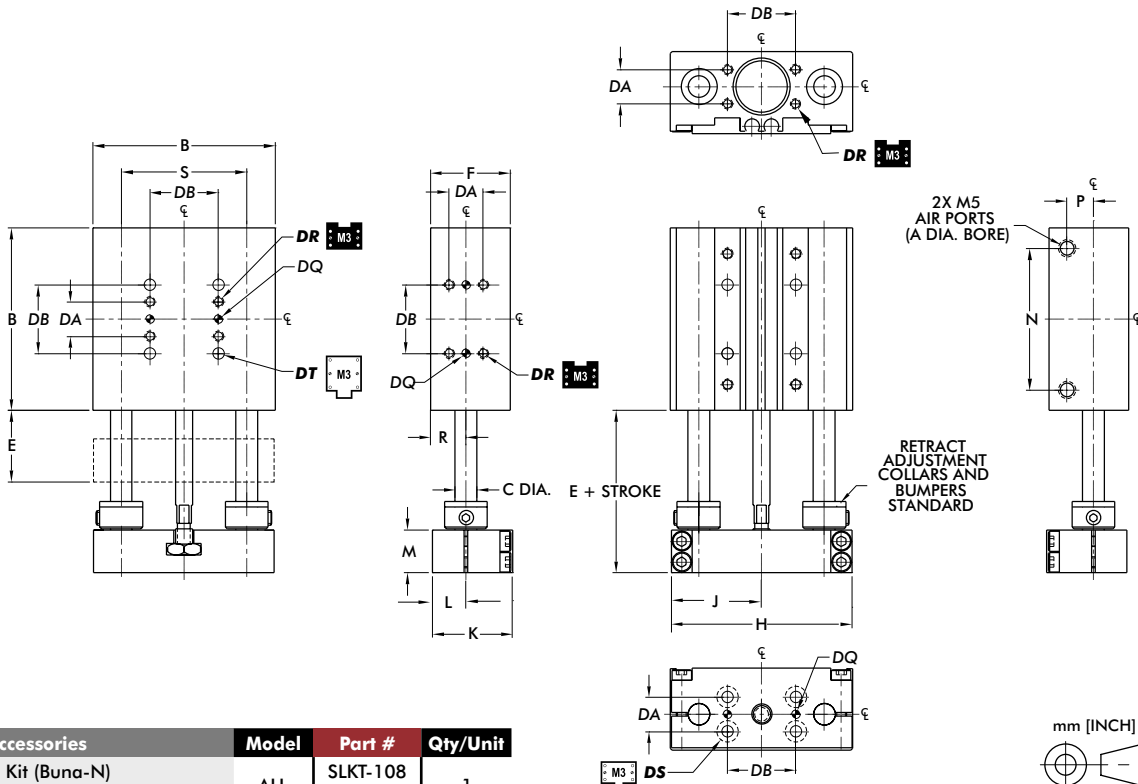
Internal Air Cylinder Linear Thruster Slides | Technical Specifications

Specifications	Units	06-B, E	06-L	08-B, E	08-L	10-B, E	10-L	12-B, E	12-L
Max. Air Pressure	bar [psi]	7 [100]							
Thrust Force @ 5.5 bar [80psi]	N [lbs]	89 [20]				155 [35]		275 [62]	
Weight -B (basic unit)	kg [lb]	0.15 [0.34]	--	0.30 [0.65]	--	0.82 [1.81]	--	1.31 [2.88]	--
Weight -E, L (basic unit)	kg [lb]		0.28 [0.61]		0.44 [0.96]	0.84 [1.87]	0.88 [1.95]	1.35 [2.98]	1.46 [3.21]
Cylinder Bore Ø	mm [in]	14.3 [0.563]				19 [0.75]		25 [1.0]	
Shaft Ø	mm [in]	6 [0.236]		8 [0.315]		9.5 [0.375]		12 [0.472]	
Max (M) Vertical Motion	Nm [in-lbs]	0.6 [5]		1.1 [10]		2.8 [25]		5.6 [50]	

Specifications	Units	16-B, E	16-L	20-B, E	20-L	25-B, E	25-L
Max. Air Pressure	bar [psi]	7 [100]					
Thrust Force @ 5.5 bar [80psi]	N [lbs]	275 [62]		622 [140]			
Weight -B (basic unit)	kg [lb]	1.99 [4.38]	--	5.1 [11.6]	--	7.2 [15.7]	--
Weight -E, L (basic unit)	kg [lb]	2.07 [4.56]	2.03 [4.81]	5.2 [11.6]	5.5 [12.0]	7.4 [16.4]	7.9 [17.4]
Cylinder Bore Ø	mm [in]	25 [1.0]		38 [1.5]			
Shaft Ø	mm [in]	16 [0.630]		20 [0.787]		25 [0.984]	
Max (M) Vertical Motion	Nm [in-lbs]	11.3 [100]		28.2 [250]		56.4 [500]	



Internal Air Cylinder Linear Thruster Slides | Dimensions and Technical Specifications



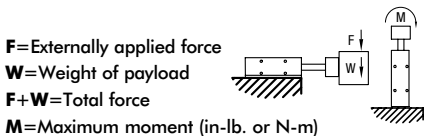
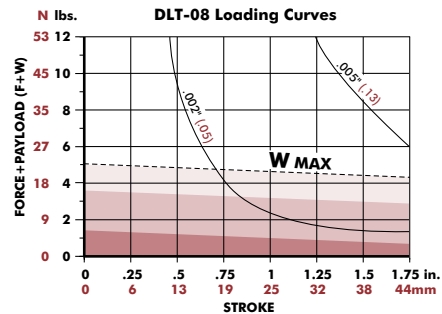
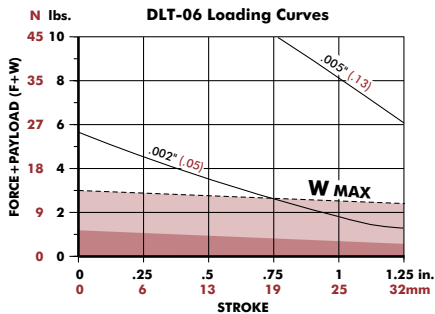
Pneumatic Accessories	Model	Part #	Qty/Unit
Cylinder Seal Kit (Buna-N)	ALL	SLKT-108	1
Cylinder Seal Kit (Viton®)		SLKT-108V	1
Base Flange Kit	-06	ODLT-015	1
(See page GR-LIN-36 for information)	-08	ODLT-016	1

DIRECCONNECT™ Mounting Pattern Dimensions (all sizes)					
DA	DB	DQ	DR	DS	DT
9.5 [0.375]	19.1 [0.750]	3H7 x 2 DP	M3 x 6 DP	CLR & C'BORE FOR M3	CLR & C'BORE FOR M3

Model	Bore Ø	Body Size		Shaft Ø	Basic Unit Dimensions									
		A	B		C	E	F	H	J	K	L	M	N	P
DLT-06M	14 [0.563]	50.8 [2.00]	6.0 [0.236]	19.9 [0.783]	22.4 [0.88]	50.3 [1.980]	25.1 [0.990]	22.2 [0.875]	9.3 [0.365]	11.9 [0.470]	39.4 [1.55]	7.4 [0.29]	9.9 [0.390]	34.93 [1.375]
DLT-08M		63.5 [2.50]	8.0 [0.315]			62.7 [2.470]	31.0 [1.235]				52.1 [2.05]			44.45 [1.75]

Dimensions in mm [in]

Loading Information

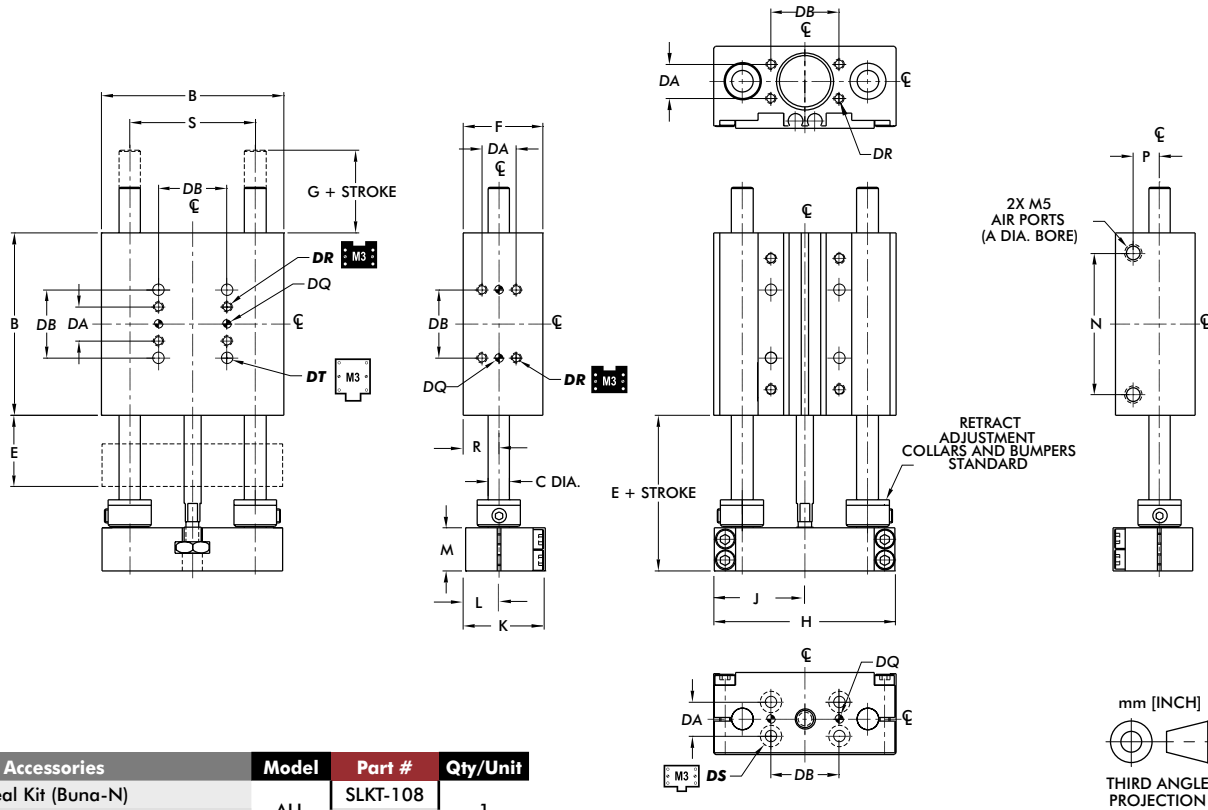


Shock Absorbers and Flow Controls are recommended for all applications

Use **Double Shocks** in both directions Use **Single Shock** in both directions Use **Bumpers or Cushioned Cylinder**

Shaded shock absorption ranges of horizontal payload (W) @ 80psi, flow controls fully open. For vertical applications do not exceed 1/2 of the recommended payload due to the additional acceleration effect of gravity.

Internal Air Cylinder Linear Thruster Slides | Dimensions and Technical Specifications



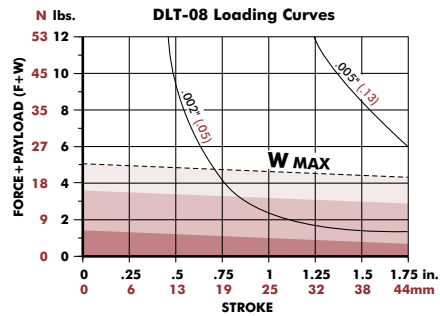
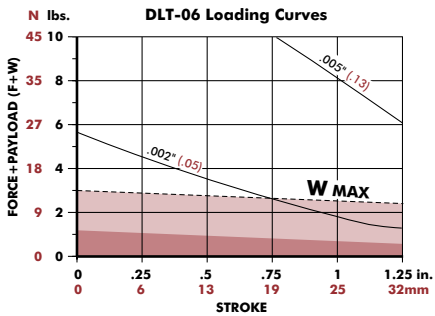
Pneumatic Accessories	Model	Part #	Qty/Unit
Cylinder Seal Kit (Buna-N)	ALL	SLKT-108	1
Cylinder Seal Kit (Viton®)		SLKT-108V	

DIRECTCONNECT™ Mounting Pattern Dimensions (all sizes)					
DA	DB	DQ	DR	DS	DT
9.5 [0.375]	19.1 [0.750]	3H7 x 2 DP	M3 x 6 DP	CLR & C'BORE FOR M3	CLR & C'BORE FOR M3

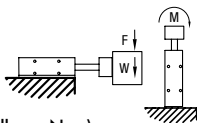
Model	Bore Ø Body Size Shaft Ø			Basic Unit Dimensions											
	A	B	C	E	F	G	H	J	K	L	M	N	P	R	S
DLT-06M	14 [0.563]	50.8 [2.00]	6.0 [0.236]	19.9 [0.783]	22.4 [0.88]	16.8 [0.66]	50.3 [1.980]	25.1 [0.990]	22.2 [0.875]	9.3 [0.365]	11.9 [0.470]	39.4 [1.55]	7.4 [0.29]	9.9 [0.390]	34.93 [1.375]
DLT-08M		63.5 [2.50]	8.0 [0.315]			10.4 [0.41]	62.7 [2.470]	31.0 [1.235]				52.1 [2.05]			44.45 [1.750]

Dimensions in mm [in]

Loading Information



F=Externally applied force
 W=Weight of payload
 F+W=Total force
 M=Maximum moment (in-lb. or N-m)



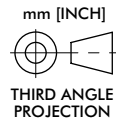
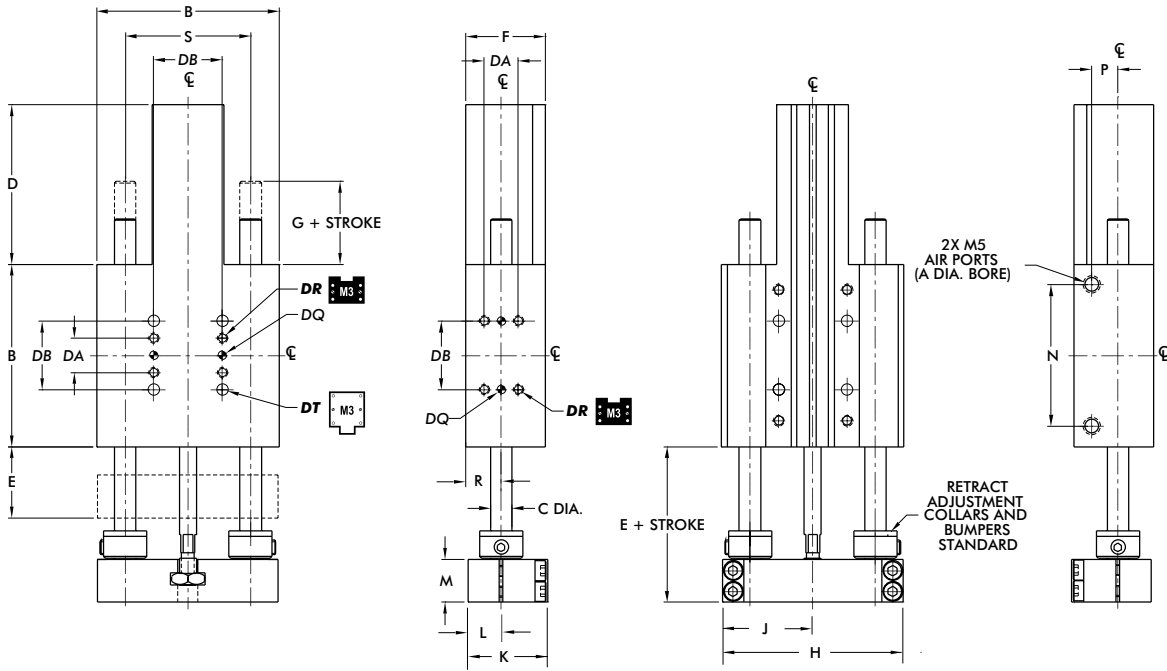
Shock Absorbers and Flow Controls are recommended for all applications

Use Double Shocks in both directions Use Single Shock in both directions Use Bumpers or Cushioned Cylinder

Shaded shock absorption ranges of horizontal payload (W) @ 80psi, flow controls fully open. For vertical applications do not exceed 1/2 of the recommended payload due to the additional acceleration effect of gravity.



Internal Air Cylinder Linear Thruster Slides | Dimensions and Technical Specifications



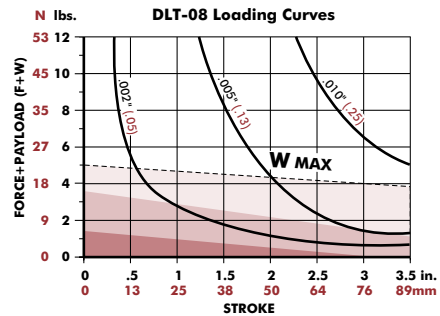
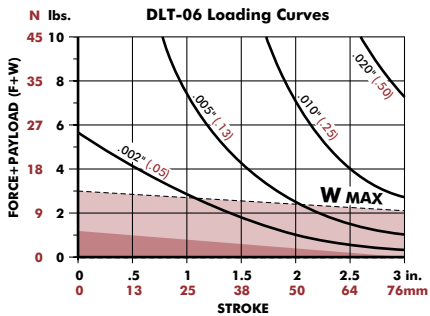
Pneumatic Accessories	Model	Part #	Qty/Unit
Cylinder Seal Kit (Buna-N)	ALL	SLKT-108	1
Cylinder Seal Kit (Viton®)		SLKT-108V	

DIRECTCONNECT™ Mounting Pattern Dimensions (all sizes)					
DA	DB	DQ	DR	DS	DT
9.5 [0.375]	19.1 [0.750]	3H7 x 2 DP	M3 x 6 DP	CLR & C'BORE FOR M3	CLR & C'BORE FOR M3

Model	Bore Ø	Body Size	Shaft Ø	Basic Unit Dimensions												
				A	B	C	D	E	F	G	H	J	K	L	M	N
DLT-06M	14 [0.563]	50.8 [2.00]	6.0 [0.236]	44.4 [1.75]	19.9 [0.783]	22.4 [0.88]	16.8 [0.66]	50.3 [1.980]	25.1 [0.990]	22.2 [0.875]	9.3 [0.365]	11.9 [0.470]	39.4 [1.55]	5.4 [0.21]	9.9 [0.390]	34.93 [1.375]
DLT-08M		63.5 [2.50]	8.0 [0.315]				10.4 [0.41]	62.7 [2.470]	31.0 [1.235]				52.1 [2.05]			44.45 [1.750]

Dimensions in mm [in]

Loading Information

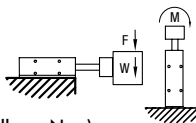


F=Externally applied force

W=Weight of payload

F+W=Total force

M=Maximum moment (in-lb. or N-m)



Shock Absorbers and Flow Controls are recommended for all applications

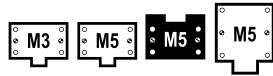
Use **Double Shocks** in both directions

Use **Single Shock** in both directions

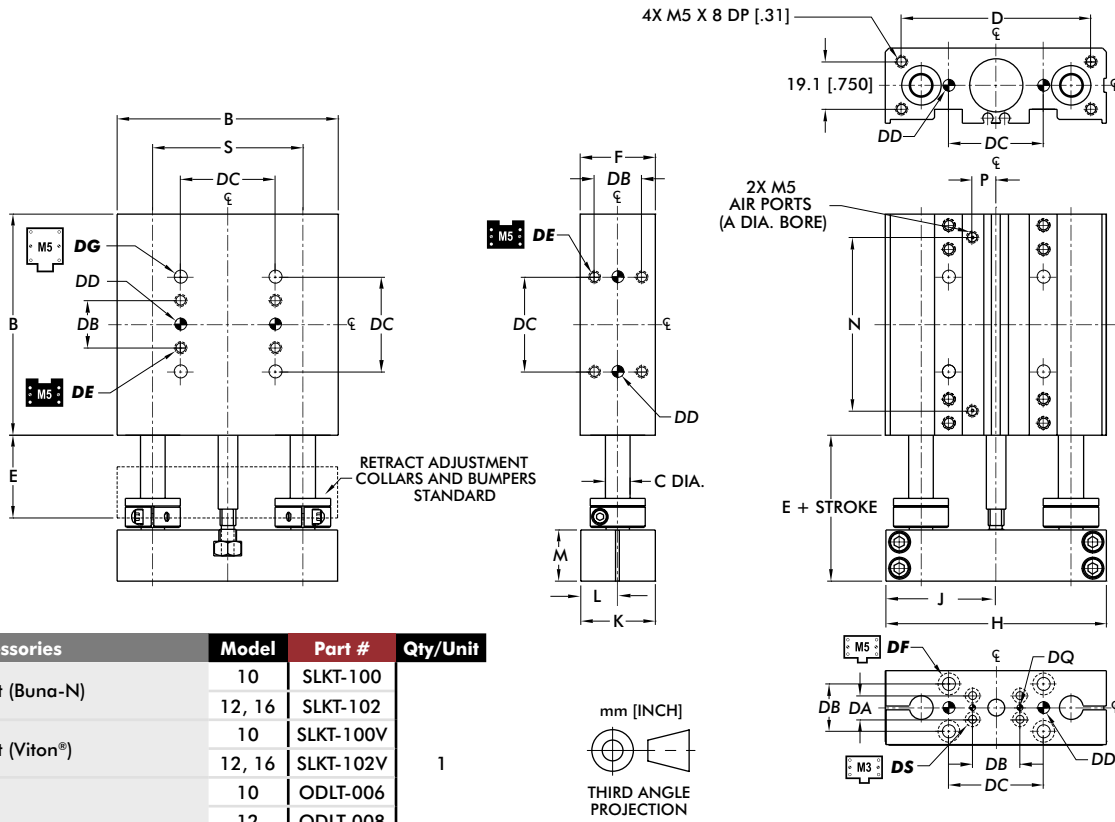
Use **Bumpers or Cushioned Cylinder**

Shaded shock absorption ranges of horizontal payload (W) @ 80psi, flow controls fully open. For vertical applications do not exceed 1/2 of the recommended payload due to the additional acceleration effect of gravity.

DLT-10/12/16M-B



Internal Air Cylinder Linear Thruster Slides | Dimensions and Technical Specifications



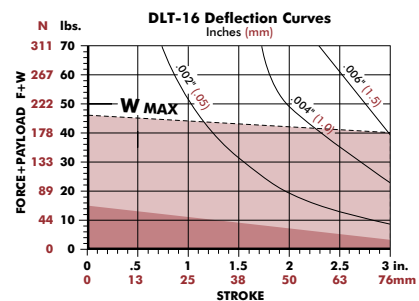
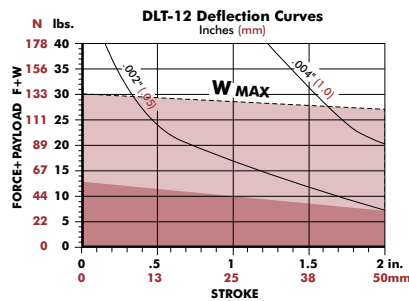
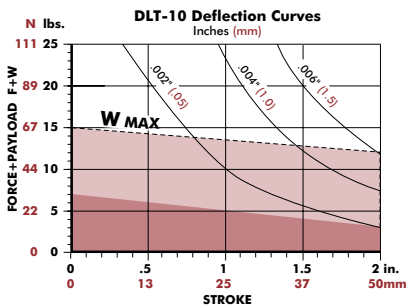
Pneumatic Accessories	Model	Part #	Qty/Unit
Cylinder Seal Kit (Buna-N)	10	SLKT-100	1
	12, 16	SLKT-102	
	10	SLKT-100V	
Cylinder Seal Kit (Viton®)	12, 16	SLKT-102V	
	10	ODLT-006	
Base Flange Kit (See page GR-LIN-36 for information)	12	ODLT-008	
	16	ODLT-010	

DIRECTCONNECT™ Mounting Pattern Dimensions (all sizes)							
DA	DB	DC	DD	DE	DF	DG	DS
9.5 [0.375]	19.1 [0.750]	38.1 [1.500]	5mm H7 x 6 DP	M5 x 8.5 DP	CLEARANCE FOR M5	3H7 x 2 DP	CLR & C'BORE FOR M3

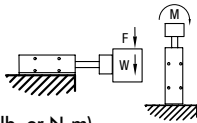
Model	Basic Unit Dimensions			Basic Unit Dimensions												
	Bore Ø	Body Size	Shaft Ø	A	B	C	D	E	F	H	J	K	L	M	N	P
DLB-10	19 [0.75]	88.9 [3.50]	9.5 [0.375]	76.2 [3.000]	33.4 [1.313]	30.2 [1.19]	88.6 [3.490]	44.2 [1.740]	29.9 [1.178]	14.8 [0.584]	20.7 [0.813]	69.7 [2.75]	9.4 [0.37]	60.33 [2.375]		
DLB-12	25 [0.98]	101.6 [4.00]	12.0 [0.472]	92.1 [3.625]		41.4 [1.63]	101.2 [3.985]	50.4 [1.985]	41.0 [1.615]	20.4 [0.802]		83.3 [3.28]		69.85 [2.750]		
DLB-16		120.7 [4.75]	16.0 [0.630]	111.1 [4.375]	34.9 [1.375]	120.3 [4.735]	59.9 [2.360]	102.4 [4.03]	82.55 [3.250]							

Dimensions in mm [in]

Loading Information



F=Externally applied force
W=Weight of payload
F+W=Total force
M=Maximum moment (in-lb. or N-m)



Shock Absorbers and Flow Controls are recommended for all applications

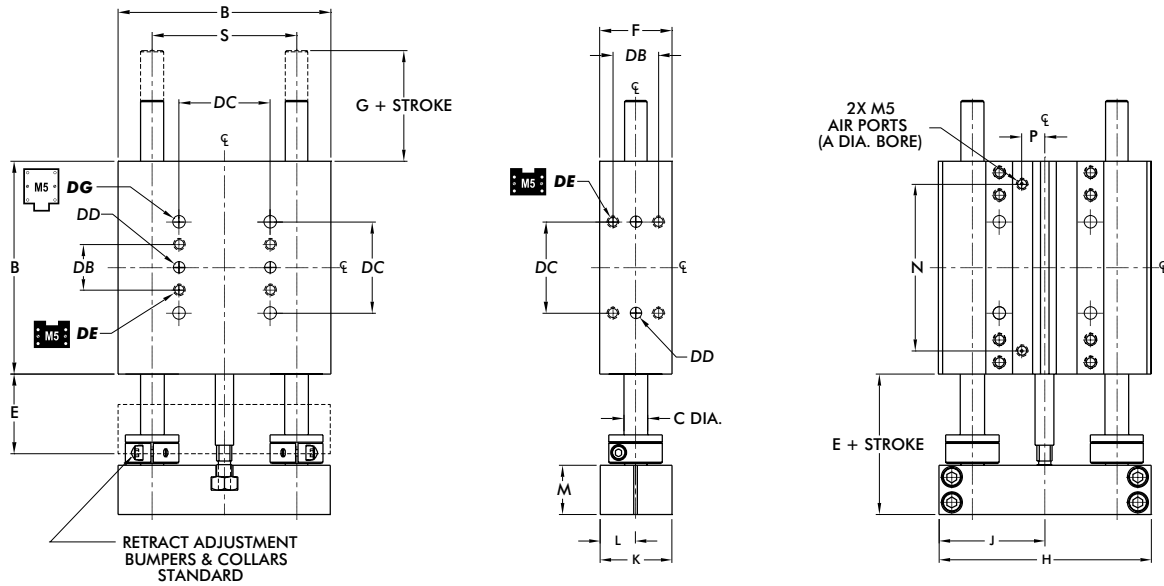
(W) in this range use **Single Shock** in retract directions

(W) in this range use **Bumpers or Cushioned Cylinder**

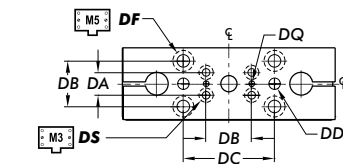
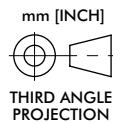
Shaded shock absorption ranges of horizontal payload (W) @ 80psi, flow controls fully open. For vertical applications do not exceed 1/2 of the recommended payload due to the additional acceleration effect of gravity.



Internal Air Cylinder Linear Thruster Slides | Dimensions and Technical Specifications



Pneumatic Accessories	Model	Part #	Qty/Unit
Cylinder Seal Kit (Buna-N)	10	SLKT-100	1
	12, 16	SLKT-102	
Cylinder Seal Kit (Viton®)	10	SLKT-100V	
	12, 16	SLKT-102V	

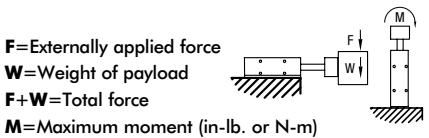
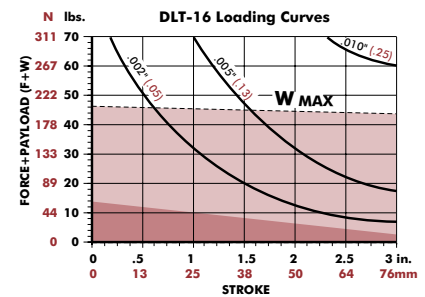
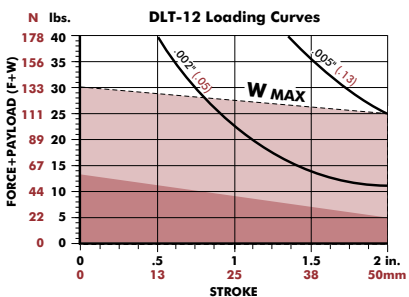
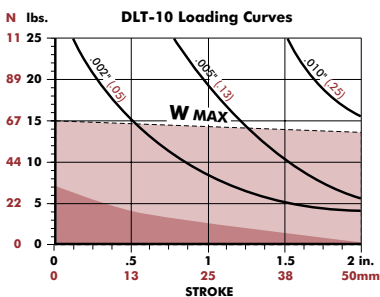


DIRECTCONNECT™ Mounting Pattern Dimensions (all sizes)								
DA	DB	DC	DD	DE	DF	DG	DQ	DS
9.5 [0.375]	19.1 [0.750]	38.1 [1.500]	5mm H7 x 6 DP	M5 x 8.5 DP	CLEARANCE FOR M5		3H7 x 2 DP	CLR & C'BORE FOR M3

Model	Basic Unit Dimensions			Basic Unit Dimensions													
	Bore Ø	Body Size	Shaft Ø	A	B	C	E	F	G	H	J	K	L	M	N	P	S
DLB-10	19 [3/4]	88.9 [3.50]	9.5 [0.375]				33.4 [1.313]	30.2 [1.19]	20.8 [0.82]	88.6 [3.490]	44.2 [1.740]	29.9 [1.178]	14.8 [0.584]		69.7 [2.75]		60.33 [2.375]
DLB-12	25 [1]	101.6 [4.00]	12.0 [0.472]				41.4 [1.63]	41.4 [1.63]	19.3 [0.76]	101.2 [3.985]	50.4 [1.985]	41.0 [1.615]	20.4 [0.802]	20.7 [0.813]	83.3 [3.28]	9.4 [0.37]	69.85 [2.750]
DLB-16		120.7 [4.75]	16.0 [0.630]	34.9 [1.375]				19.3 [0.76]	19.3 [0.76]	120.3 [4.735]	59.9 [2.360]					102.4 [4.03]	

Dimensions in mm [in]

Loading Information

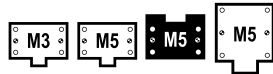


Shock Absorbers and Flow Controls are recommended for all applications

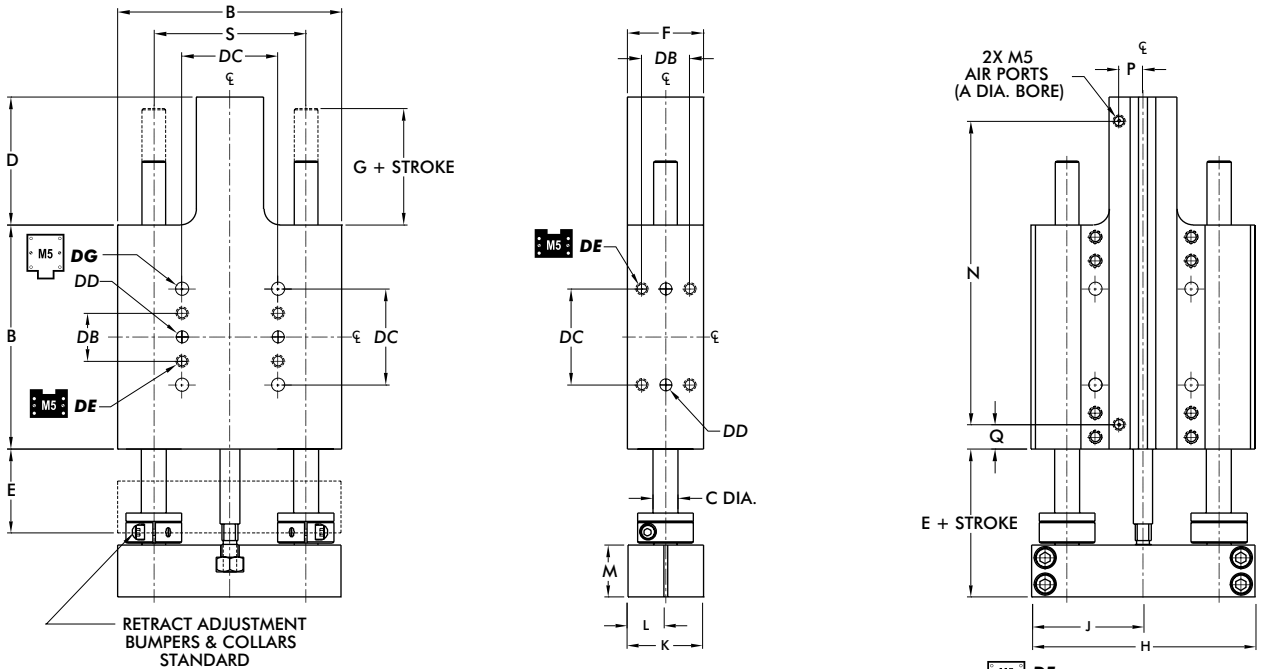
(W) in this range use **Single Shock** in retract directions (W) in this range use **Bumpers or Cushioned Cylinder**

Shaded shock absorption ranges of horizontal payload (W) @ 80psi, flow controls fully open. For vertical applications do not exceed 1/2 of the recommended payload due to the additional acceleration effect of gravity.

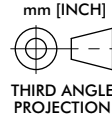
DLT-10/12/16M-L



Internal Air Cylinder Linear Thruster Slides | Dimensions and Technical Specifications



Pneumatic Accessories	Model	Part #	Qty/Unit
Cylinder Seal Kit (Buna-N)	10	SLKT-100	1
	12, 16	SLKT-102	
Cylinder Seal Kit (Viton®)	10	SLKT-100V	
	12, 16	SLKT-102V	

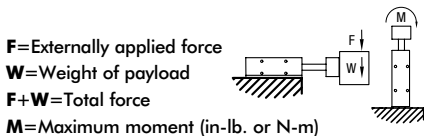
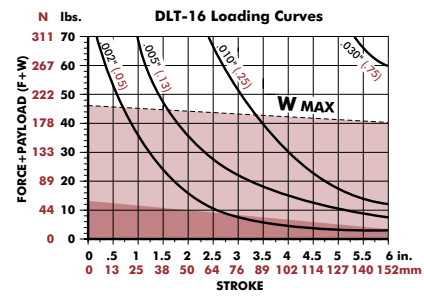
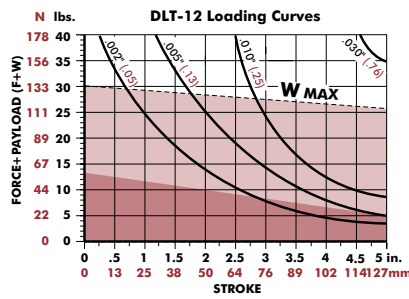
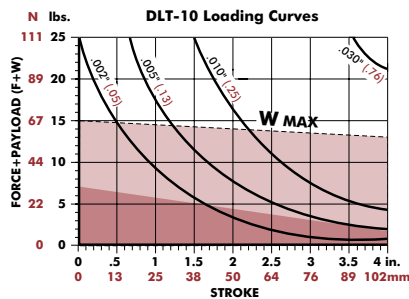


DIRECTCONNECT™ Mounting Pattern Dimensions (all sizes)								
DA	DB	DC	DD	DE	DF	DG	DQ	DS
9.5 [0.375]	19.1 [0.750]	38.1 [1.500]	5mm H7 x 6 DP	M5 x 8.5 DP	CLEARANCE FOR M5		3H7 x 2 DP	CLR & C'BORE FOR M3

Model	Bore Ø	Body Size	Shaft Ø	Basic Unit Dimensions												
				A	B	C	D	E	F	G	H	J	K	L	M	N
DLB-10	19 [3/4]	88.9 [3.50]	9.5 [0.375]	50.8 [2.00]	33.4 [1.313]	30.2 [1.19]	20.8 [0.82]	88.6 [3.490]	44.2 [1.740]	29.9 [1.178]	14.8 [0.584]		120.7 [4.75]	9.6 [0.38]	9.6 [0.38]	60.33 [2.375]
DLB-12	25 [1]	101.6 [4.00]	12.0 [0.472]	63.5 [2.50]	41.4 [1.63]			101.2 [3.985]	50.4 [1.985]	41.0 [1.615]	20.4 [0.802]	20.7 [0.813]	146.8 [5.78]	9.4 [0.37]	9.1 [0.36]	69.85 [2.750]
DLB-16		120.7 [4.75]	16.0 [0.630]	69.9 [2.75]				34.9 [1.375]	19.3 [0.76]				120.3 [4.735]			59.9 [2.360]

Dimensions in mm [in]

Loading Information



Shock Absorbers and Flow Controls are recommended for all applications

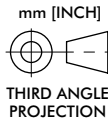
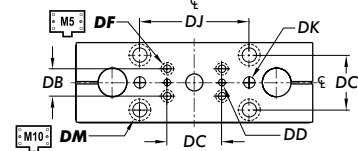
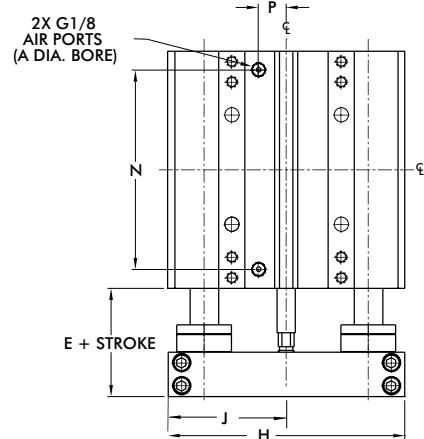
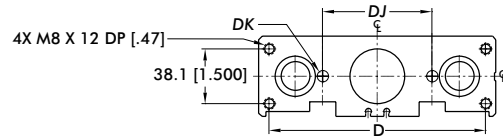
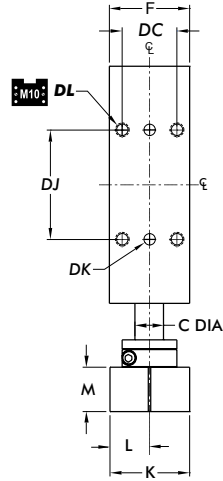
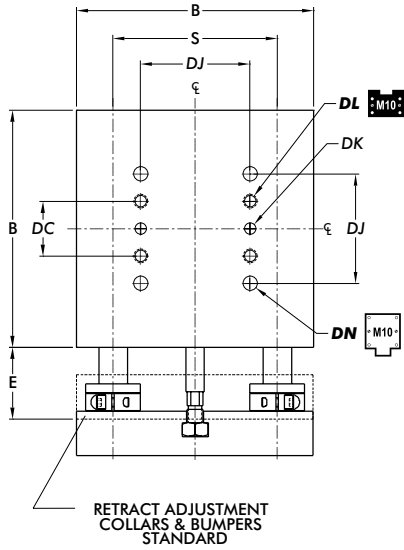
(W) in this range use **Single Shock** in retract directions

(W) in this range use **Bumpers or Cushioned Cylinder**

Shaded shock absorption ranges of horizontal payload (W) @ 80psi, flow controls fully open. For vertical applications do not exceed 1/2 of the recommended payload due to the additional acceleration effect of gravity.



Internal Air Cylinder Linear Thruster Slides | Dimensions and Technical Specifications



Pneumatic Accessories	Model	Part #	Qty/Unit
Cylinder Seal Kit (Buna-N)	20	SLKT-104	1
Cylinder Seal Kit (Viton®)	25	SLKT-104V	
Base Flange Kit (See page GR-LIN-36 for information)	20	ODLT-012	
	25	ODLT-014	

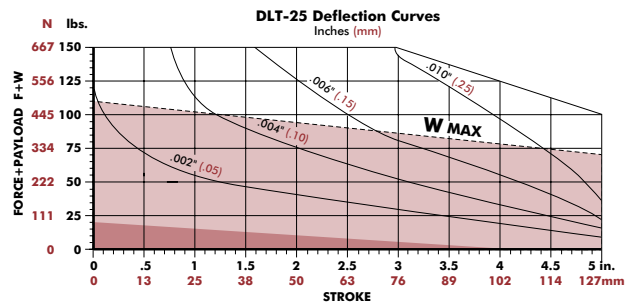
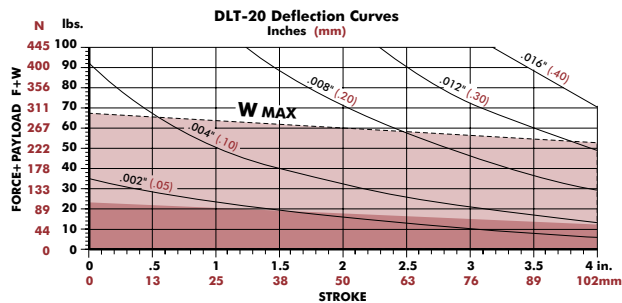
DIRECTCONNECT™ Mounting Pattern Dimensions (all sizes)

DB	DC	DD	DF	DJ	DK	DL	DM	DN
19.1 [0.750]	38.1 [1.500]	5mm H7 x 6 DP	CLEARANCE FOR M5	76.2 [3.000]	8mm H7 x 9.4 DP	M10 x 14.2 DP	CLR & C'BORE FOR M10	

Model	Bore Ø	Body Size	Shaft Ø	Basic Unit Dimensions										
				A	B	C	D	E	F	H	J	K	L	M
DLB-20	38 [1 1/2]	165.1 [6.50]	20 [0.787]	150.8 [5.938]	49.8 [1.960]	55.9 [2.20]	164.6 [6.480]	82.0 [3.230]	55.4 [2.180]	27.4 [1.080]	30.7 [1.210]	138.9 [5.47]	19.5 [0.77]	114.30 [4.500]
DLB-25		190.5 [7.50]	25 [0.984]	176.2 [6.938]	55.1 [2.170]		190.0 [7.480]	94.7 [3.730]			36.1 [1.420]	164.3 [6.47]		133.35 [5.250]

Dimensions in mm [in]

Loading Information

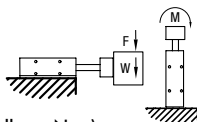


F=Externally applied force

W=Weight of payload

F+W=Total force

M=Maximum moment (in-lb. or N-m)



Shock Absorbers and Flow Controls are recommended for all applications

(W) in this range use **Single Shock** in retract directions

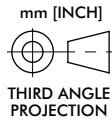
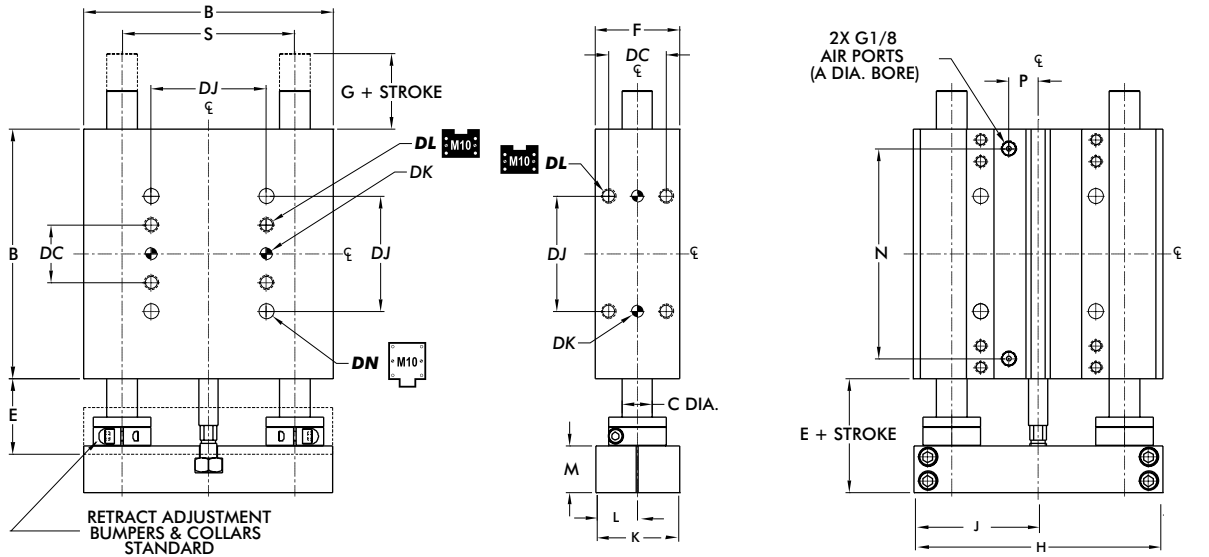
(W) in this range use **Bumpers or Cushioned Cylinder**

Shaded shock absorption ranges of horizontal payload (W) @ 80psi, flow controls fully open. For vertical applications do not exceed 1/2 of the recommended payload due to the additional acceleration effect of gravity.

DLT-20/25M-E



Internal Air Cylinder Linear Thruster Slides | Dimensions and Technical Specifications



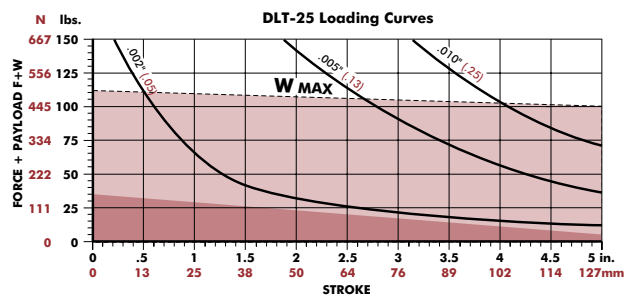
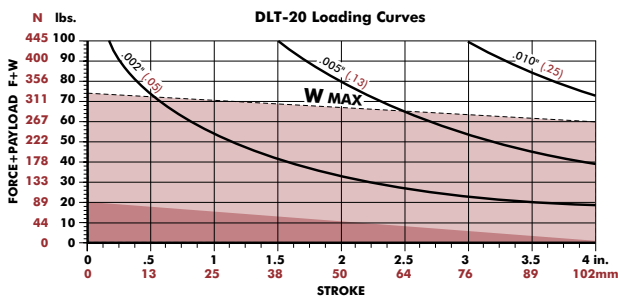
Pneumatic Accessories	Model	Part #	Qty/Unit
Cylinder Seal Kit (Buna-N)	20	SLKT-104	1
Cylinder Seal Kit (Viton®)	25	SLKT-104V	1

DIRECTCONNECT™ Mounting Pattern Dimensions (all sizes)									
DB	DC	DD	DF	DJ	DK	DL	DM	DN	
19.1 [0.750]	38.1 [1.500]	5mm H7 x 6 DP	CLEARANCE FOR M5	76.2 [3.000]	8mm H7 x 9.4 DP	M10 x 14.2 DP	CLR & C'BORE FOR M10		

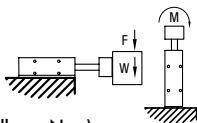
Model	Bore Ø	Body Size	Shaft Ø	Basic Unit Dimensions											
				A	B	C	E	F	G	H	J	K	L	M	N
DLT-20	38	165.1 [6.50]	20 [0.787]	49.8 [1.960]	55.9 [2.20]	24.4 [0.960]	164.6 [6.480]	82.0 [3.230]		55.4 [2.180]	27.4 [1.080]	30.7 [1.210]	138.9 [5.47]	19.5 [0.77]	114.30 [4.300]
DLT-25	[1 1/2]	190.5 [7.50]	25 [0.984]	55.1 [2.170]		29.7 [1.170]	190.0 [7.480]	94.7 [3.730]				36.1 [1.420]	164.3 [6.47]		133.35 [5.250]

Dimensions in mm [in]

Loading Information



F=Externally applied force
W=Weight of payload
F+W=Total force
M=Maximum moment (in-lb. or N-m)

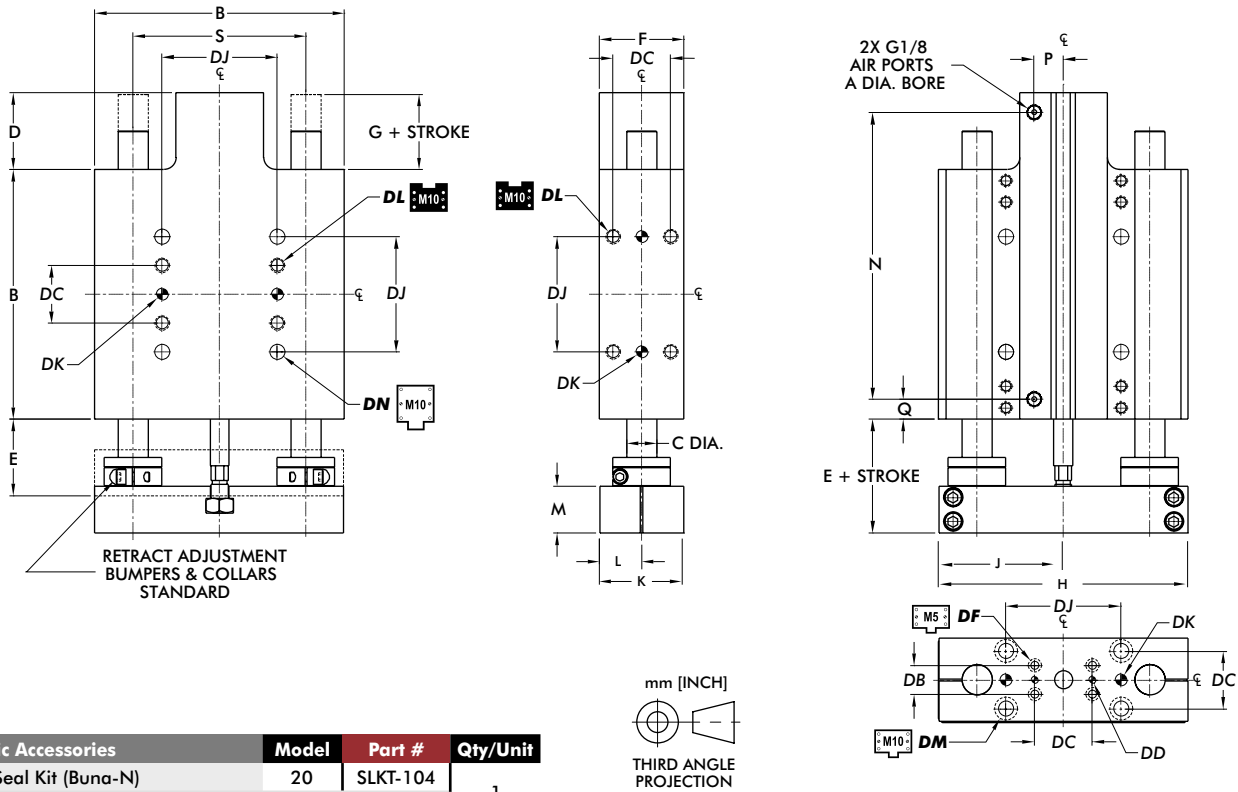


Shock Absorbers and Flow Controls are recommended for all applications

(W) in this range use Single Shock in retract directions (W) in this range use Bumpers or Cushioned Cylinder

Shaded shock absorption ranges of horizontal payload (W) @ 80psi, flow controls fully open. For vertical applications do not exceed 1/2 of the recommended payload due to the additional acceleration effect of gravity.

Internal Air Cylinder Linear Thruster Slides | Dimensions and Technical Specifications



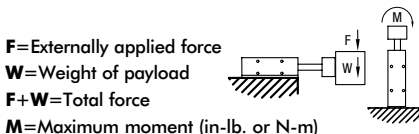
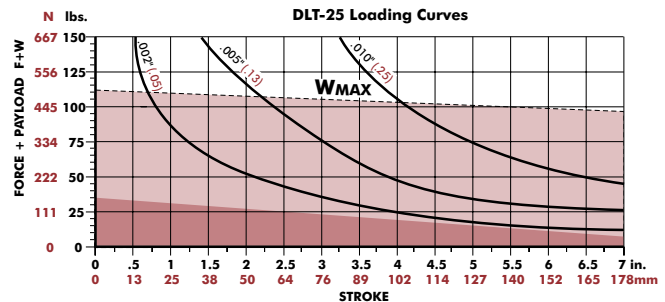
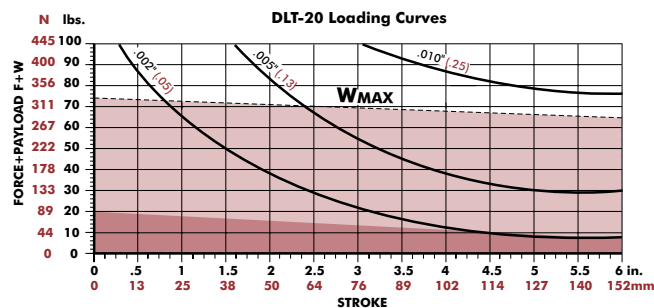
Pneumatic Accessories	Model	Part #	Qty/Unit
Cylinder Seal Kit (Buna-N)	20	SLKT-104	1
Cylinder Seal Kit (Viton®)	25	SLKT-104V	1

DIRECTCONNECT™ Mounting Pattern Dimensions (all sizes)									
DB	DC	DD	DF	DJ	DK	DL	DM	DN	
19.1 [0.750]	38.1 [1.500]	5mm H7 x 6 DP	CLEARANCE FOR M5	76.2 [3.000]	8mm H7 x 9.4 DP	M10 x 14.2 DP	CLR & C'BORE FOR M10		

Model	Bore Ø	Body Size	Shaft Ø	Basic Unit Dimensions												
				A	B	C	D	E	F	G	H	J	K	L	M	N
DLT-20	38 [1 1/2]	165.1 [6.50]	20 [0.787]	50.8 [2.00]	49.8 [1.960]	55.9 [2.20]	24.4 [0.960]	164.6 [6.480]	82.0 [3.230]	55.4 [2.180]	27.4 [1.080]	30.7 [1.210]	189.7 [7.469]	19.4 [0.77]	13.1 [0.52]	114.30 [4.500]
DLT-25		190.5 [7.50]	25 [0.984]	55.1 [2.170]	29.7 [1.170]	190.0 [7.480]	94.7 [3.730]	27.4 [1.080]	36.1 [1.420]	215.1 [8.468]						

Dimensions in mm [in]

Loading Information



Shock Absorbers and Flow Controls are recommended for all applications

(W) in this range use **Single Shock** in retract directions (W) in this range use **Bumpers or Cushioned Cylinder**

Shaded shock absorption ranges of horizontal payload (W) @ 80psi, flow controls fully open. For vertical applications do not exceed 1/2 of the recommended payload due to the additional acceleration effect of gravity.

DLT SERIES - EXTERNAL AIR CYLINDER

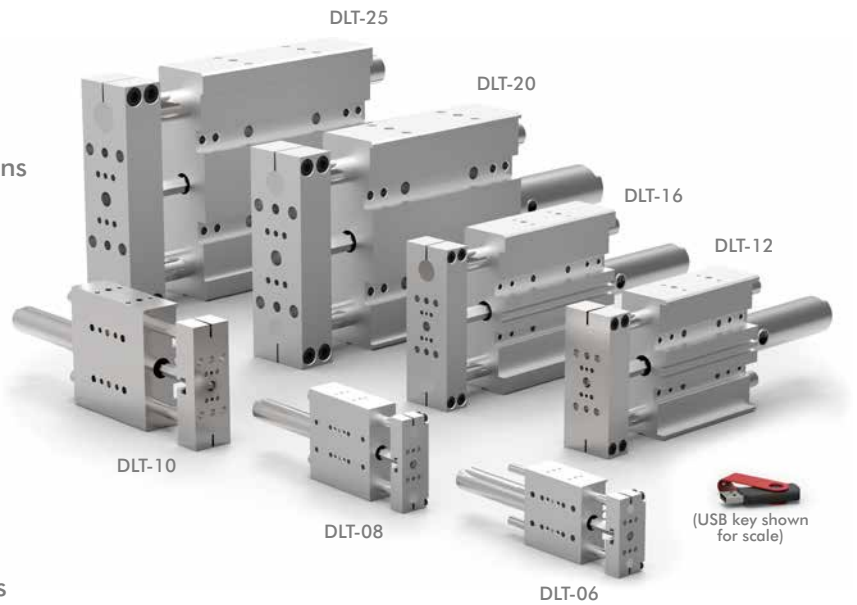
External Air Cylinder Linear Thruster Slides | Features and Benefits | How To Order

Features:

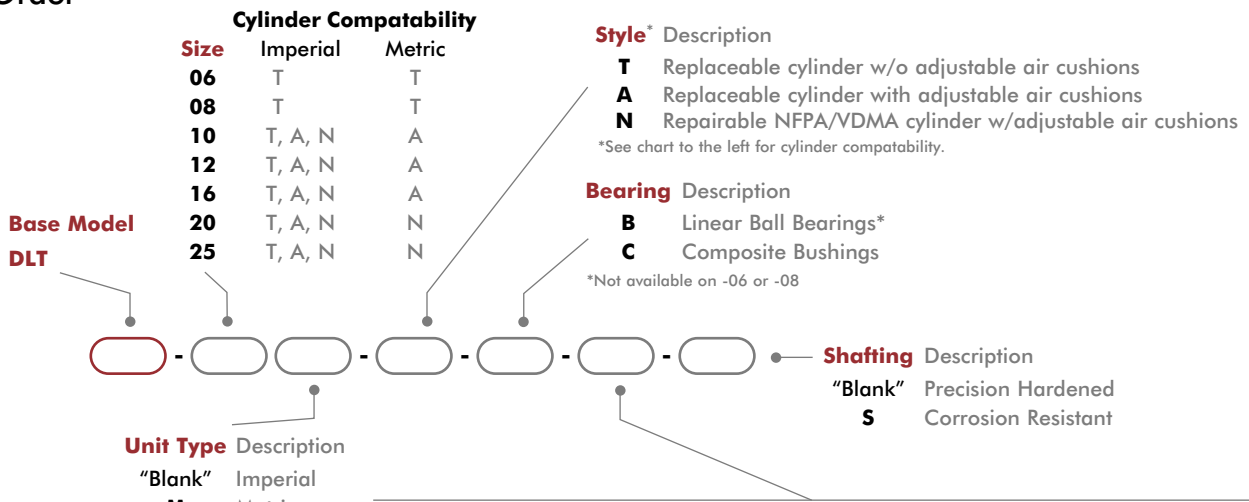
- Bearing system for smooth operation
- Rugged design produces very reliable long life operation
- Replaceable air cylinder with adjustable cushions
- Urethane bumpers, hardened pads, oil wick
- Optional telescopic airlines transfers air to tooling
- DIRECTCONNECT™ mounting pattern
- Corrosion resistant shafting for corrosive environments
- Position sensing using inductive or magneto resistive sensors

Applications:

- Machining and automation applications
- Harsh environment pick-and-place applications
- X Y Table Applications



How To Order



Size	Style	Stroke* Imperial (in)
DLT-06	T	.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6
DLT-08	T	.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6, 7, 8
DLT-10	T, A, N	1-12 @ 1" increments
DLT-12	T, A, N	1-16 @ 1" increments
DLT-16	T, A, N	1-20 @ 1" increments
DLT-20	T, A, N	1-24 @ 1" increments
DLT-25	T, A, N	1-26 @ 1" increments

Size	Style	Stroke* Metric (mm)
DLT-06M	T	10, 25, 40, 50, 75, 100, 125, 160
DLT-08M	T	10, 25, 40, 50, 75, 100, 125, 160, 175, 200
DLT-10M	A	25, 50, 80, 100, 125, 160, 200, 250, 300
DLT-12M	A	25, 50, 80, 100, 125, 160, 200, 250, 300, 320, 360, 400
DLT-16M	A	25, 50, 80, 100, 125, 160, 200, 250, 300, 320, 360, 400, 500
DLT-20M	N	25, 50, 80, 100, 125, 160, 200, 250, 300, 320, 360, 400, 500
DLT-25M	N	25, 50, 80, 100, 125, 160, 200, 250, 300, 320, 360, 400, 500

*Custom strokes available. Consult factory.

DLT SERIES - EXTERNAL AIR CYLINDER

External Air Cylinder Linear Thruster Slides | Accessories

Shock/Stop & Mounting Accessories	Model Numbers	Style	Part Number	Qty/Unit
Universal Mounting Kit (Stop/Shock)	06	All	OSAK-069	1-4
	08		OSAK-070	
Universal Mounting Kit (Stop/Shock/Sensor)	10		OSAK-055	
	12		OSAK-057	
	16		OSAK-059	
	20		OSAK-061	
	25		OSAK-063	
	06, 08		SHOK-030	
Shock Absorber (2 Max on -06)	10		SHOK-028	
	12, 16,		SHOK-010	
	20, 25		SHOK-029	
Adjustable Hard Stop	06, 08		DLT-0623	
	10, 12, 16, 20, 25		DLT-1023	
Urethane Bumper/Stop Collar Kit	06		OSAK-067	
	08	OSAK-068		
	10	OSAK-065		
	12	OSAK-066		
	16	OSAK-060		
	20	OSAK-062		
25	OSAK-064			
Sensor Accessories	Model Numbers	Style	Part Number	Qty/Unit
Inductive Sensor Mounting Kit	06	T	OSMK-076	1
Inductive Sensor Mounting Kit	08		OSMK-077	
PNP Inductive Sensor with Quick Disconnect*	06, 08	T	OISP-014	1-2
NPN Inductive Sensor with Quick Disconnect*			OISN-014	
PNP Inductive Sensor with Quick Disconnect*	10, 12, 16, 20, 25	T, A, N	OISP-011	
NPN Inductive Sensor with Quick Disconnect*			OISN-011	
PNP Magneto Resistive Sensor w/Qk Disconnect*	06, 08, 10, 12, 16	T, A, N	OHSP-005	1-2
NPN Magneto Resistive Sensor w/Qk Disconnect*			OHSN-005	
PNP Magneto Resistive Sensor w/Qk Disconnect*	20, 25	N	OHSP-020	
NPN Magneto Resistive Sensor w/Qk Disconnect*			OHSN-020	
Quick Disconnect 2 Meter Cable Length*	All Model	All	CABL-010	1-2
Quick Disconnect 5 Meter Cable Length*			CABL-013	
Cable Extension Cord 1M Length*	All Models	All	CABL-015	
Cable Extension Cord 2M Length*			CABL-016	
Pneumatic Accessories	Model Numbers	Style	Part Number	Qty/Unit
1/8 NPT Telescopic Airlines (up to 6")	10, 12, 16	All	OTAL-039	1-4
1/8 NPT Telescopic Airlines (up to 12")	10, 12, 16		OTAL-040	
1/8 NPT Telescopic Airlines (up to 18")	10, 12, 16, 20, 25		OTAL-041	
1/8 NPT Telescopic Airlines (up to 24")	20, 25		OTAL-042	
#10-32 NPT Adjustable Flow Control	06, 08		VLVF-007	1-2
1/8 NPT Adjustable Flow Control	10, 12, 16, 20, 25		VLVF-004	
G1/8 Telescopic Airlines (up to 160mm)	10, 12, 16		OTAL-045	1-4
G1/8 Telescopic Airlines (up to 300mm)	10, 12, 16		OTAL-046	
G1/8 Telescopic Airlines (up to 450mm)	10, 12, 16, 20, 25		OTAL-047	
G1/8 Telescopic Airlines (up to 600mm)	20, 25		OTAL-048	
M5 Adjustable Flow Control	06, 08		VLVF-008	1-2
G1/8 Adjustable Flow Control	10, 12, 16, 20, 25		VLVF-005	

*Sensor and cable sold separately.

See page GR-LIN-36 for Accessory Mounting Technical Data

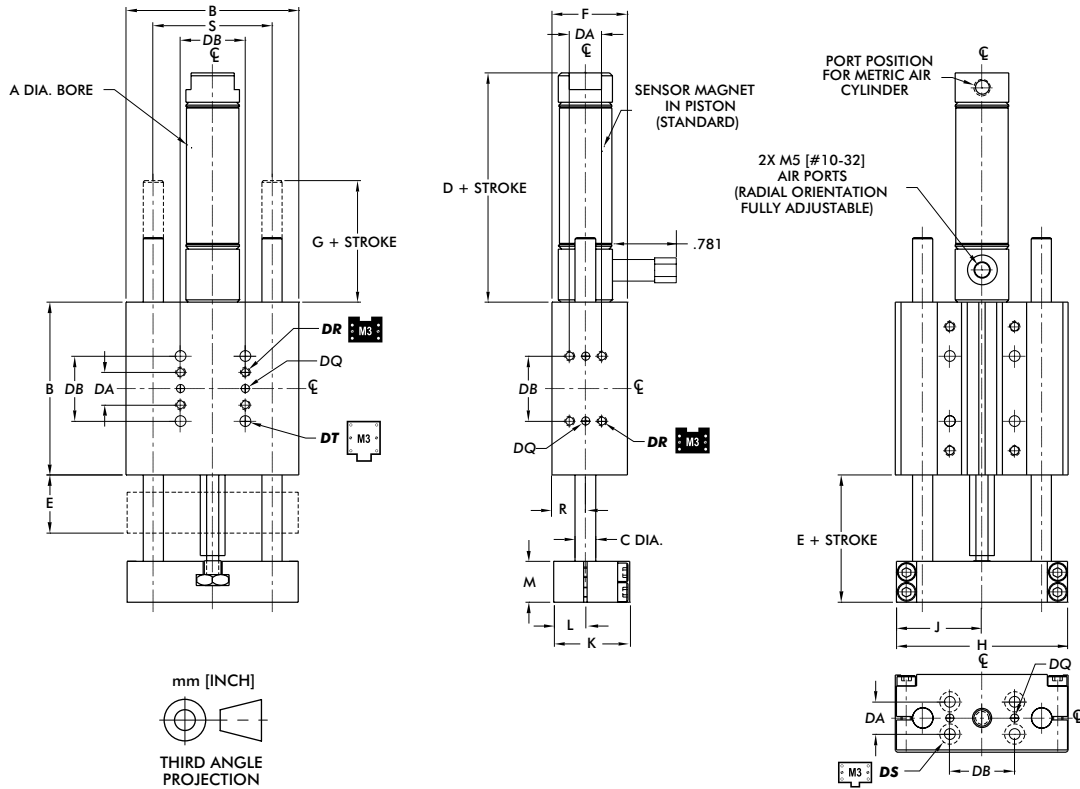
DLT SERIES - EXTERNAL AIR CYLINDER

External Air Cylinder Linear Thruster Slides | Technical Specifications

Specifications	Units	06	08	10	12	16	20	25
Max. Air Pressure	bar [psi]	7 [100]						
Thrust Force @ 5.5 bar [80psi]	N [lbs]	111 [20]	89 [20]	173 [35]	270 [70]	270 [70]	443 [140]	443 [140]
Weight (basic unit)	kg [lb]	0.24 [0.53]	0.40 [0.88]	1.05 [2.12]	1.64 [3.42]	2.11 [4.47]	6.3 [14.3]	8.5 [19.2]
Additional Weight per Stroke	g/mm [lbs/in]	0.88 [0.05]	1.43 [0.07]	1.2 [0.09]	2.9 [0.15]	4.2 [0.23]	7.9 [0.53]	10.7 [0.68]
Cylinder Bore Ø	mm [in]	16 [0.563]		20 [0.787]	25 [0.984]		32 [1.26]	
Shaft Ø	mm [in]	6 [0.236]	8 [0.315]	9.5 [0.375]	12 [0.472]	16 [0.630]	20 [0.787]	25 [0.984]
Max (M) Vertical Motion	Nm [in-lbs]	0.6 [5]	1.3 [10]	--	--	--	--	--



External Air Cylinder Linear Thruster Slides | Dimensions and Technical Specifications

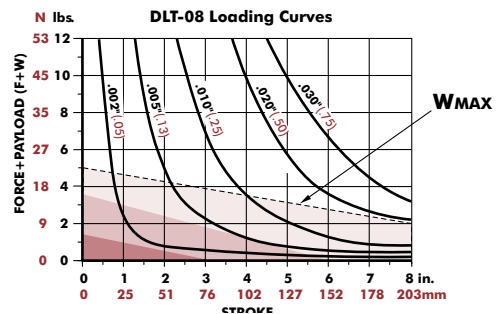
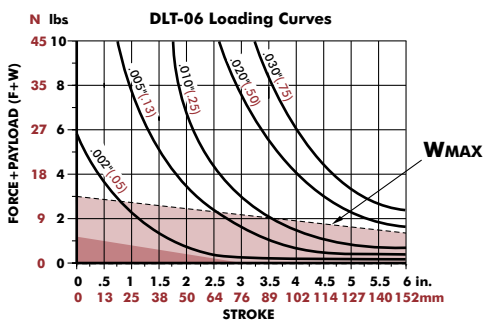


DIRECTCONNECT™ Mounting Pattern Dimensions (all sizes)						
DA	DB	DQ	DR	DS	DT	
9.5 [0.375]	19.1 [0.750]	3H7 x 2 DP [0.0940 x 0.078 DP]	M3 x 6 DP [#4-40 x 0.25 DP]	CLR & C'BORE FOR M3 [CLR & C'BORE FOR #4]	CLR & C'BORE FOR M3 [CLR & C'BORE FOR #4]	

Model	Bore Ø Body Size Shaft Ø			Basic Unit Dimensions										
	A	B	C	D	E	F	G	H	J	K	L	M	R	S
DLT-06	16 [0.63]	50.8 [2.00]	6.0 [0.236]	54.9 [2.16]	19.9 [0.783]	22.4 [0.88]	16.7 [0.66]	50.3 [1.980]	25.1 [0.990]	22.2 [0.875]	9.3 [0.365]	11.9 [0.470]	9.9 [0.390]	34.93 [1.375]
DLT-08		63.5 [2.50]	8.0 [0.315]				10.4 [0.41]	62.7 [2.470]	31.4 [1.235]					44.45 [1.750]

Dimensions in mm [in]

Loading Information

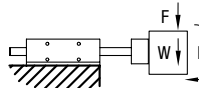


F=Externally applied force

W=Weight of payload

F+W=Total force

M=Maximum moment (in-lb. or N-m)



Shock Absorbers and Flow Controls are recommended for all applications

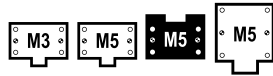
Use **Double Shocks** in both directions

Use **Single Shock** in both directions

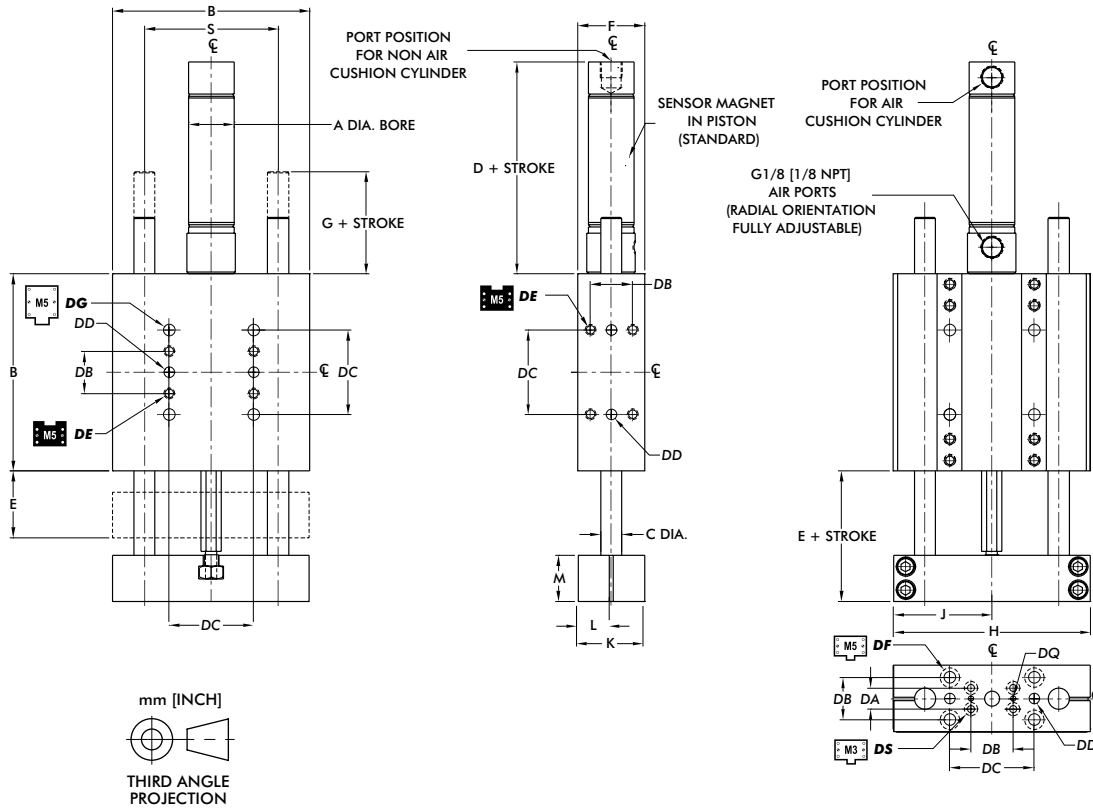
Use **Bumpers or Cushioned Cylinder**

Shaded shock absorption ranges of horizontal payload (W) @ 80psi, flow controls fully open. For vertical applications do not exceed 1/2 of the recommended payload due to the additional acceleration effect of gravity.

DLT-10/12/16-T, A



External Air Cylinder Linear Thruster Slides | Dimensions and Technical Specifications



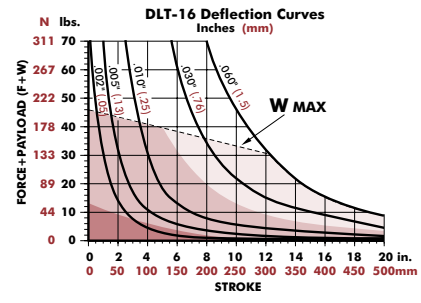
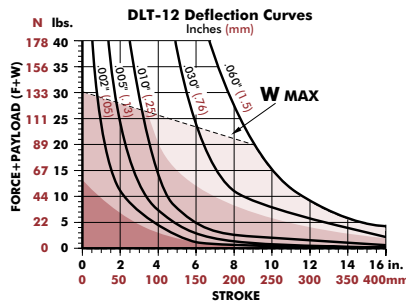
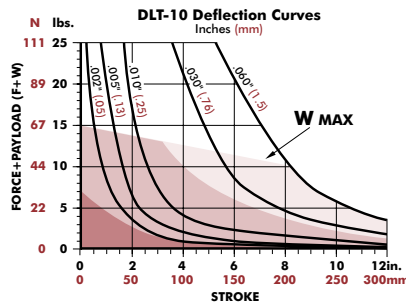
DIRECTCONNECT™ Mounting Pattern Dimensions (all sizes)

DA	DB	DC	DD	DE	DF	DG	DQ	DS
9.5 [0.375]	19.1 [0.750]	38.1 [1.500]	5mm H7 x 6 DP [0.1880 x 0.25 DP]	M5 x 8.5 DP [#10-32 x 0.34 DP]	CLR & C'BORE FOR M5 [CLR & C'BORE FOR #10]	3H7 x 2 DP [0.0940 x 0.078 DP]	CLR & C'BORE FOR M3 [CLR & C'BORE FOR #4]	

Model	Bore Ø Body Size Shaft Ø			Basic Unit Dimensions											
	A	B	C	D	E	F	G	H	J	K	L	M	S		
DLB-10	20 [3/4]	88.9 [3.50]	9.5 [0.375]	88.0 [2.91]	33.4 [1.313]	30.2 [1.19]	20.8 [0.82]	88.6 [3.490]	44.2 [1.740]	29.9 [1.178]	14.8 [0.584]		60.33 [2.375]		
DLB-12	25 [1 1/16]	101.6 [4.00]	12.0 [0.472]	91.5 [2.88]	34.9 [1.375]	41.4 [1.63]	19.3 [0.76]	101.2 [3.985]	120.3 [4.735]	50.4 [1.985]	59.9 [2.360]	41.0 [1.615]	20.4 [0.802]	20.7 [0.813]	69.85 [2.750]
DLB-16		120.7 [4.75]	16.0 [0.630]			82.55 [3.250]									

Dimensions in mm [in]

Loading Information

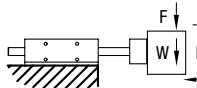


F=Externally applied force

W=Weight of payload

F+W=Total force

M=Maximum moment (in-lb. or N-m)



Shock Absorbers and Flow Controls are recommended for all applications

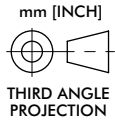
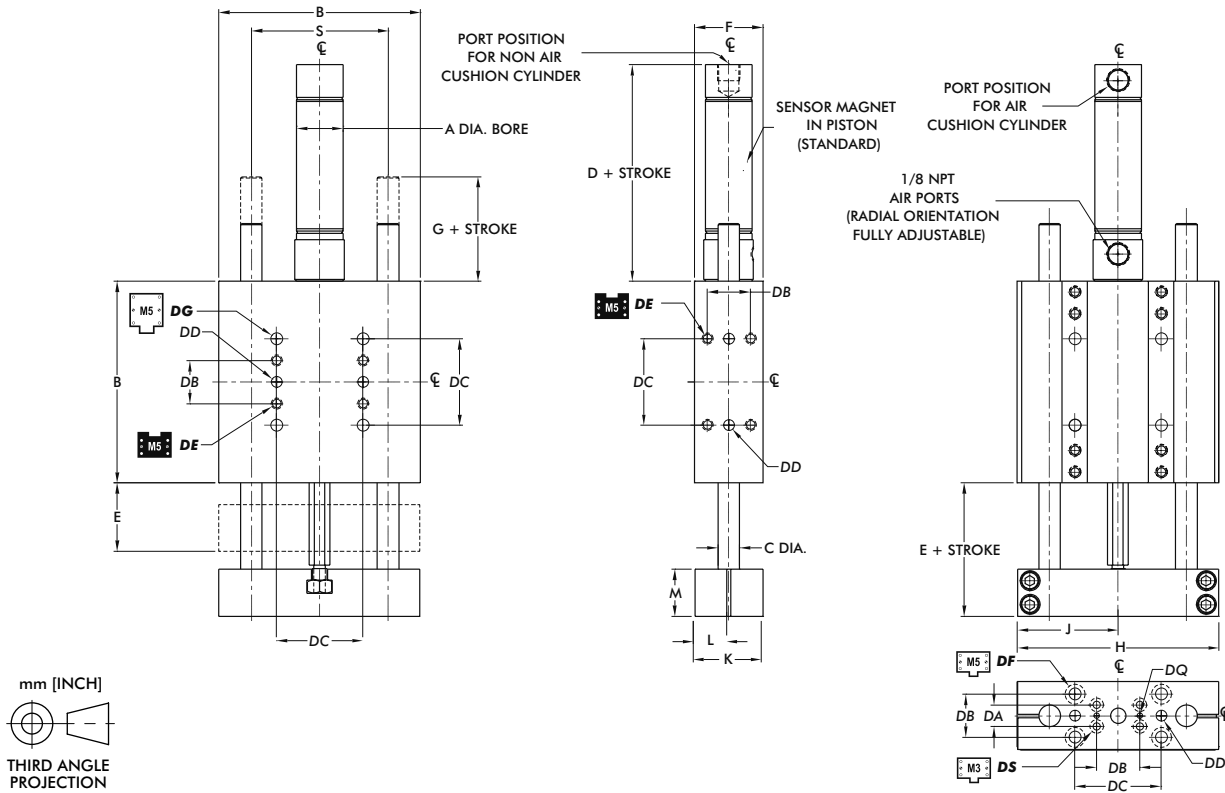
Use Double Shocks in both directions

Use Single Shock in both directions

Use Bumpers or Cushioned Cylinder

Shaded shock absorption ranges of horizontal payload (W) @ 80psi, flow controls fully open. For vertical applications do not exceed 1/2 of the recommended payload due to the additional acceleration effect of gravity.

External Air Cylinder Linear Thruster Slides | Dimensions and Technical Specifications



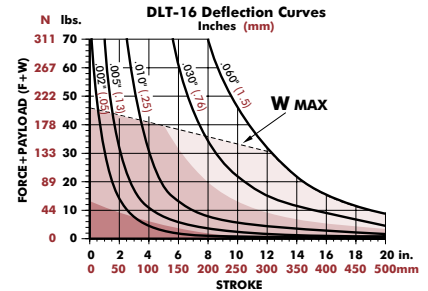
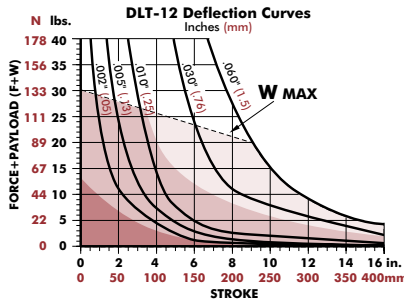
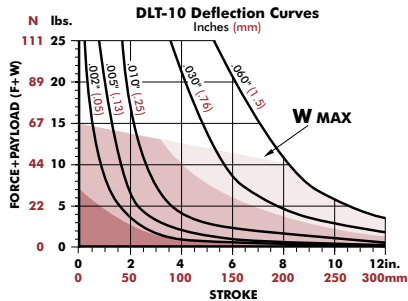
DIRECTCONNECT™ Mounting Pattern Dimensions (all sizes)

DA	DB	DC	DD	DE	DF	DG	DQ	DS
9.5 [0.375]	19.1 [0.750]	38.1 [1.500]	[0.1880 x 0.25 DP]	[#10-32 x .34 DP]	[CLR & C'BORE FOR #10]	[0.0940 x 0.078 DP]	[CLR & C'BORE FOR #4]	

Model	Bore Ø	Body Size	Shaft Ø	Basic Unit Dimensions													
				A	B	C	D	E	F	G	H	J	K	L	M	S	
DLB-10	19 [3/4]	88.9 [3.50]	9.5 [0.375]	87.4 [3.44]	33.4 [1.313]	30.2 [1.19]	20.8 [0.82]	88.6 [3.490]	44.2 [1.740]	29.9 [1.178]	14.8 [0.584]	20.7 [0.813]	60.33 [2.375]				
DLB-12	28.6 [1 1/8]	101.6 [4.00]	12.0 [0.472]			41.4 [1.63]								101.2 [3.985]	50.4 [1.985]	41.0 [1.615]	20.4 [0.802]
DLB-16		120.7 [4.75]	16.0 [0.630]			34.9 [1.375]	120.3 [4.735]							59.9 [2.360]	82.55 [3.250]		

Dimensions in mm [in]

Loading Information

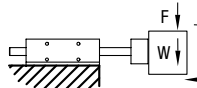


F=Externally applied force

W=Weight of payload

F+W=Total force

M=Maximum moment (in-lb. or N-m)



Shock Absorbers and Flow Controls are recommended for all applications

Use **Double Shocks** in both directions

Use **Single Shock** in both directions

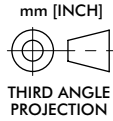
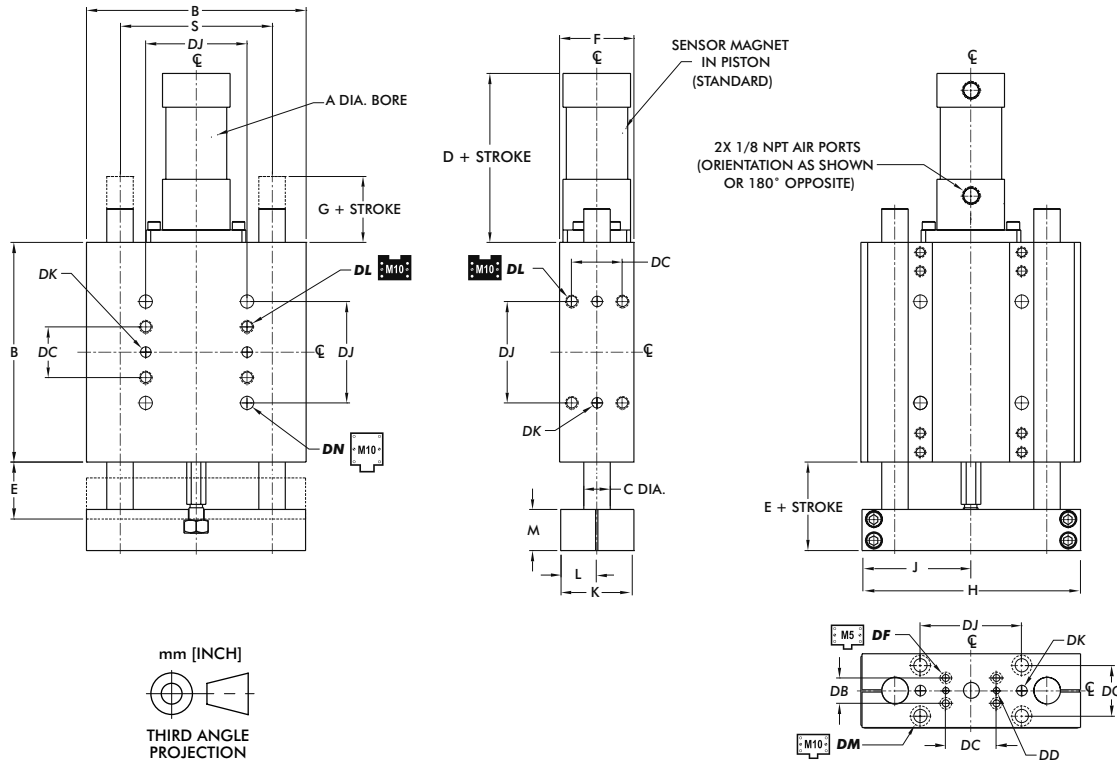
Use **Bumpers or Cushioned Cylinder**

Shaded shock absorption ranges of horizontal payload (W) @ 80psi, flow controls fully open. For vertical applications do not exceed 1/2 of the recommended payload due to the additional acceleration effect of gravity.

DLT-20/25-T, A



External Air Cylinder Linear Thruster Slides | Dimensions and Technical Specifications



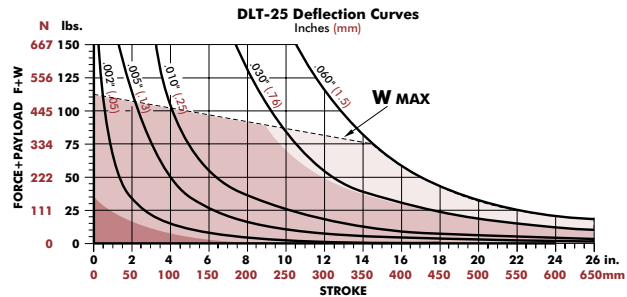
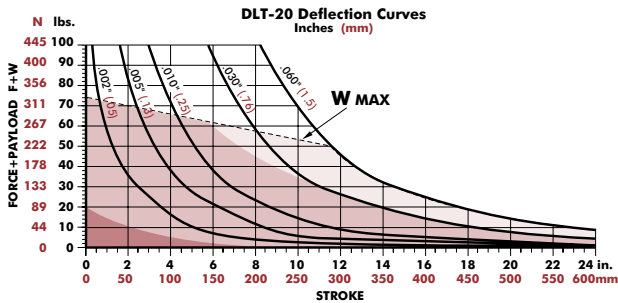
DIRECTCONNECT™ Mounting Pattern Dimensions (all sizes)

DB	DC	DD	DF	DJ	DK	DL	DM	DN
19.1 [0.750]	38.1 [1.500]	[0.1880 x 0.25 DP]	[CLR & C'BORE FOR #10]	76.2 [3.000]	[0.3130 x 0.37 DP]	[3/8 -16 x 0.56 DP]	[CLR & C'BORE FOR 3/8]	

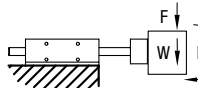
Model	Bore Ø			Basic Unit Dimensions									
	A	B	C	D	E	F	G	H	J	K	L	M	S
DLB-20	38.1 [1 1/2]	165.1 [6.50]	20 [0.787]	76.2 [3.00]	49.8 [1.960]	55.9 [2.20]	24.4 [0.960]	164.6 [6.480]	82.0 [3.230]	55.4 [2.180]	27.4 [1.080]	30.7 [1.210]	114.30 [4.500]
DLB-25		190.5 [7.50]	25 [0.984]		55.1 [2.170]		29.7 [1.170]	190.0 [7.480]	94.7 [3.730]			36.1 [1.420]	133.35 [5.250]

Dimensions in mm [in]

Loading Information



F=Externally applied force
W=Weight of payload
F+W=Total force
M=Maximum moment (in-lb. or N-m)

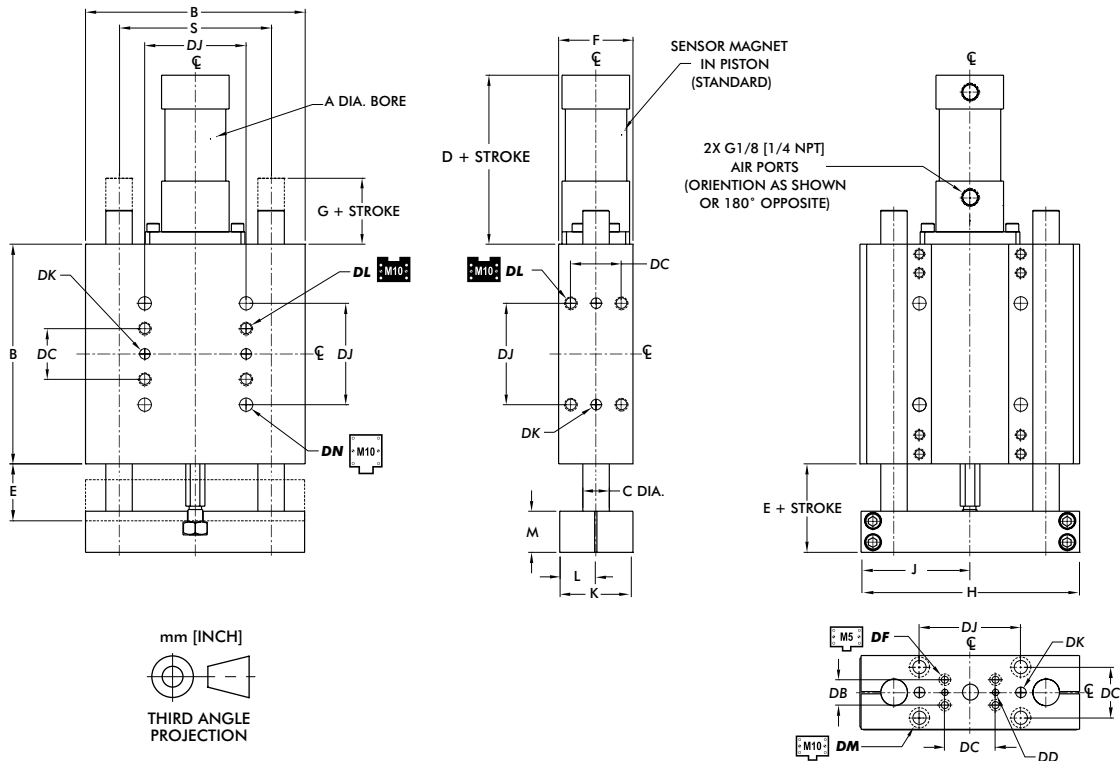


Shock Absorbers and Flow Controls are recommended for all applications

Use Double Shocks in both directions Use Single Shock in both directions Use Bumpers or Cushioned Cylinder

Shaded shock absorption ranges of horizontal payload (W) @ 80psi, flow controls fully open. For vertical applications do not exceed 1/2 of the recommended payload due to the additional acceleration effect of gravity.

External Air Cylinder Linear Thruster Slides | Dimensions and Technical Specifications



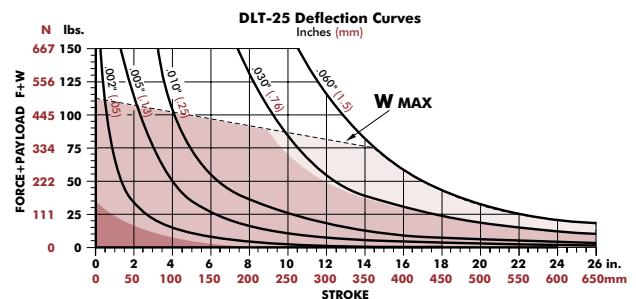
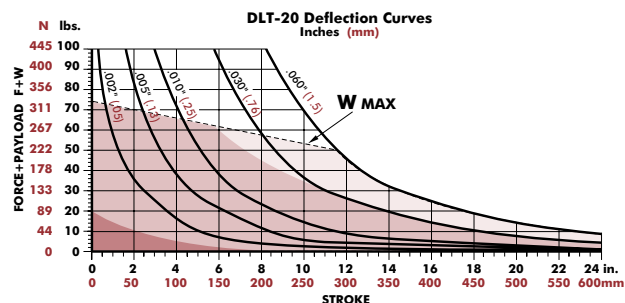
DIRECTCONNECT™ Mounting Pattern Dimensions (all sizes)

DB	DC	DD	DF	DJ	DK	DL	DM	DN
19.1 [0.750]	38.1 [1.500]	5mm H7 x 6 DP [0.1880 x 0.25 DP]	CLR & C'BORE FOR M5 [CLR & C'BORE FOR #10]	76.2 [3.000]	8mm H7 x 9.4 DP [0.3130 x 0.37 DP]	M10 x 14.2 DP [3/8 - 16 x 0.56 DP]	CLR & C'BORE FOR M10 [CLR & C'BORE FOR 3/8]	

Model	Bore Ø	Body Ø	Shaft Ø	Basic Unit Dimensions									
				A	B	C	D	E	F	G	H	J	K
DLB-20	32 [1 1/2]	165.1 [6.50]	20 [0.787]	107.7 [4.01]	49.8 [1.960]	55.9 [2.20]	24.4 [0.960]	164.6 [6.480]	82.0 [3.230]	55.4 [2.180]	27.4 [1.080]	30.7 [1.210]	114.30 [4.500]
DLB-25		190.5 [7.50]	25 [0.984]		55.1 [2.170]		29.7 [1.170]	190.0 [7.480]	94.7 [3.730]			36.1 [1.420]	133.35 [5.250]

Dimensions in mm [in]

Loading Information

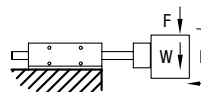


F=Externally applied force

W=Weight of payload

F+W=Total force

M=Maximum moment (in-lb. or N-m)



Shock Absorbers and Flow Controls are recommended for all applications

Use **Double Shocks** in both directions

Use **Single Shock** in both directions

Use **Bumpers or Cushioned Cylinder**

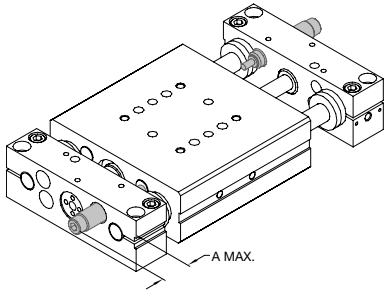
Shaded shock absorption ranges of horizontal payload (W) @ 80psi, flow controls fully open. For vertical applications do not exceed 1/2 of the recommended payload due to the additional acceleration effect of gravity.

BASE SLIDE ACCESSORIES

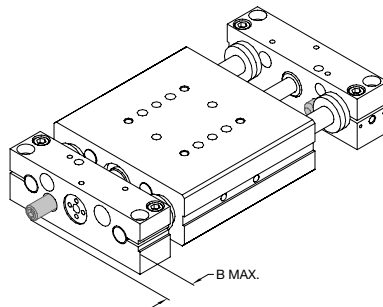
Linear Slides | Accessory Mounting Technical Data

DLB-B, L Internally Powered Base Slides

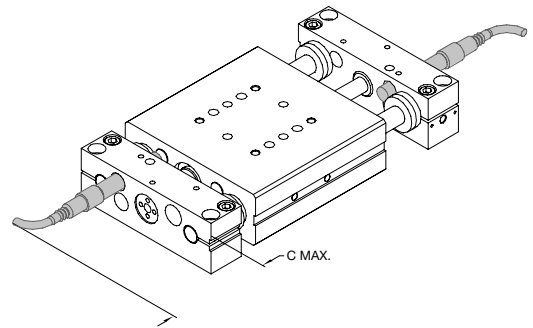
Shock Absorbers



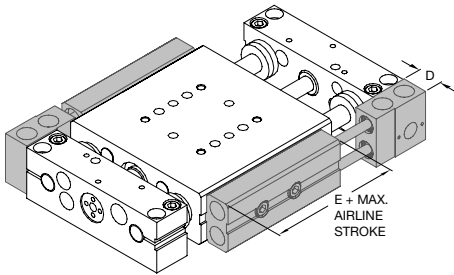
Adjustable Hard Stops



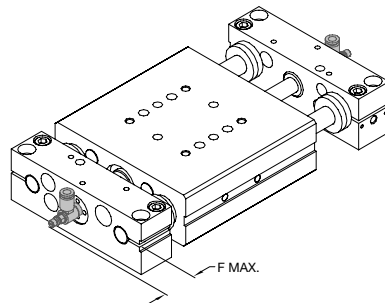
Inductive Proximity Sensors



Telescopic Airlines



Flow Controls

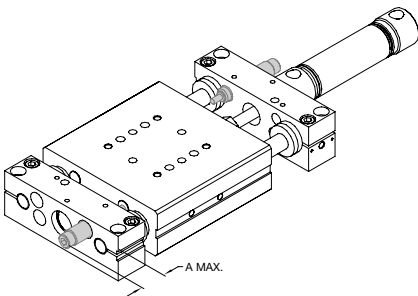


Model	A	B	C	D	E	F
DLB-06M	13.5 [0.53]	10.2 [0.40]	45.7 [1.8]	--	--	25.9 [1.02]
DLB-08M				--	--	
DLB-10	17.8 [0.70]					
DLB-12	24.1 [0.95]	11.9 [0.47]	63.5 [2.5]			
DLB-16				14.7 [0.577]	91.4 [3.60]	31.8 [1.25]
DLB-20	51.6 [2.03]		53.8 [2.1]			
DLB-25	46.2 [1.82]	2.5 [0.10]	48.3 [1.9]			

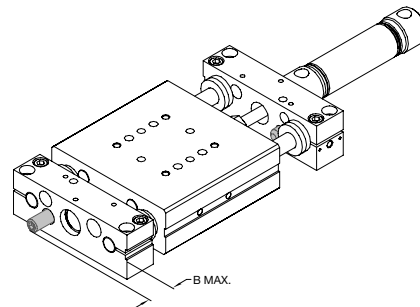
Dimensions in mm [in]

DLB-T, A, N Externally Powered Base Slides

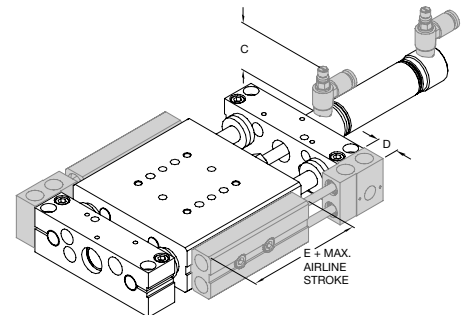
Shock Absorbers



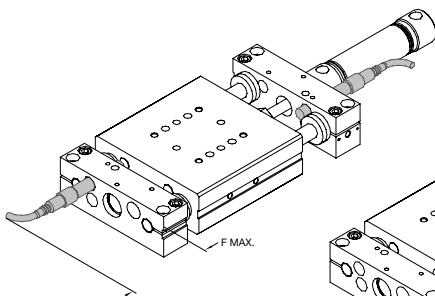
Adjustable Hard Stops



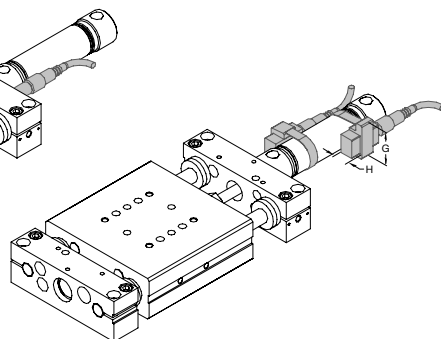
Telescoping Airlines & Flow Controls



Inductive Proximity Sensors



Magneto Resistive Sensors



Model	A	B	C	D	E	F	G	H
DLB-06M	13.5 [0.53]	10.2 [0.40]	25.9 [1.02]	--	--	45.7 [1.8]		
DLB-08M				--	--			
DLB-10	17.8 [0.70]							
DLB-12	24.1 [0.95]	11.9 [0.47]				63.5 [2.5]	25.4 [1.00]	10.9 [0.43]
DLB-16			31.8 [1.25]	14.7 [0.577]	91.4 [3.60]			
DLB-20	51.6 [2.03]					53.8 [2.12]		
DLB-25	46.2 [1.82]	2.5 [0.10]				48.3 [1.90]		

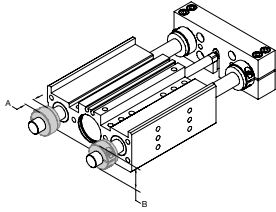
Dimensions in mm [in]

LINEAR THRUSTER ACCESSORIES

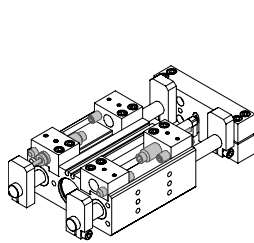
Linear Slides | Accessory Mounting Technical Data

DLT-B, E, L Internally Powered Thruster Slides

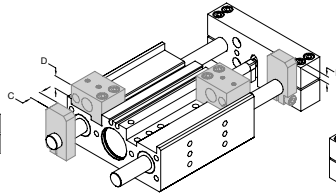
Urethane Bumpers & Clamp Collars (DLT-E, L only)



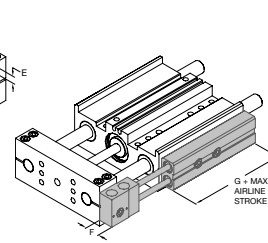
Adjustable Hard Stop & Shock Absorbers



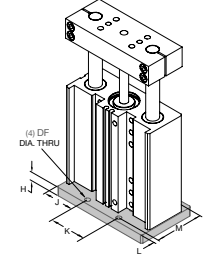
Universal Mounting Kit



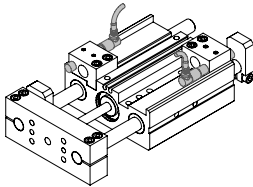
Telescoping Airlines (DLT-E, L only)



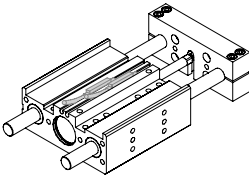
Base Flange Kit (DLT-B only)



Inductive Proximity Sensors



Magneto Resistive Sensors

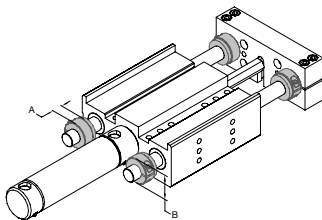


Model	A	B	C	D	E	F	G	H	J	K	L	M
DLT-06M	6.0 [0.236]	12 [0.470] 16 [0.630]	6.4 [0.250]	7.9 [0.310]	6.9 [0.270]	--	--	3.2 [0.125]	8.0 [0.313] 14.3 [0.563]	35 [1.376]	3.2 [0.125]	28.6 [1.125]
DLT-10	8.7 [0.343]	22.1 [0.87] 9.5 [0.375]	12.2 [0.480]	8.1 [0.320]	5.8 [0.230]			9.0 [0.355]	25.4 [1.000] 32.5 [1.281]	38.1 [1.500]	4.8 [0.188]	38.1 [1.500]
DLT-12	9.5 [0.375]	23.9 [0.95]	11.1 [0.437]	11.4 [0.450]	8.6 [0.340]	14.7 [0.577]	91.4 [3.60]		42.1 [1.656]			50.8 [2.000]
DLT-16	11.1 [0.437]	33.3 [1.31]	12.7 [0.500]	22.4 [0.920]	17.0 [0.67]			12.2 [0.480]	44.5 [1.750] 57.2 [2.250]	76.2 [3.000]	9.5 [0.375]	76.2 [3.000]
DLT-20	12.7 [0.500]	38.1 [1.50] 44.5 [1.75]										
DLT-25												

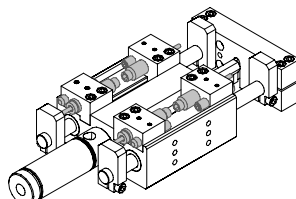
Dimensions in mm [in]

DLT-T, A, N Externally Powered Thruster Slides

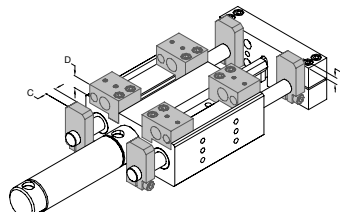
Urethane Bumpers & Clamp Collars



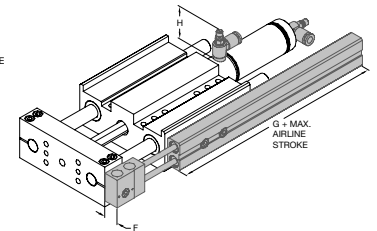
Adjustable Hard Stop & Shock Absorbers



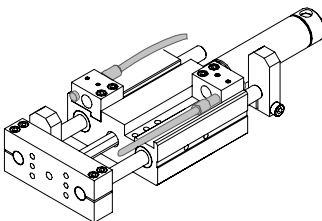
Universal Mounting Kit



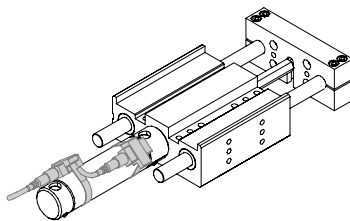
Telescoping Airlines & Flow Controls



Inductive Proximity Sensors



Magneto Resistive Sensors



Model	A	B	C	D	E	F	G	H
DLT-06M	6.0 [0.236]	12.0 [0.47] 16.0 [0.63]	6.4 [0.250]	7.9 [0.31]	6.9 [0.27]	--	--	46.2 [1.82]
DLT-10	8.7 [0.343]	22.1 [0.87] 9.5 [0.375]	12.2 [0.480]	8.1 [0.320]	5.8 [0.230]			
DLT-12	9.5 [0.375]	23.9 [0.95]	11.1 [0.437]	11.4 [0.450]	8.6 [0.340]	14.7 [0.577]	91.4 [3.60]	28.4 [1.12]
DLT-16	11.1 [0.437]	33.3 [1.31]	12.7 [0.500]	23.4 [0.92]	17.0 [0.670]			
DLT-20	12.7 [0.500]	38.1 [1.50] 44.5 [1.75]						
DLT-25								

Dimensions in mm [in]

DLM SERIES

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

Features:

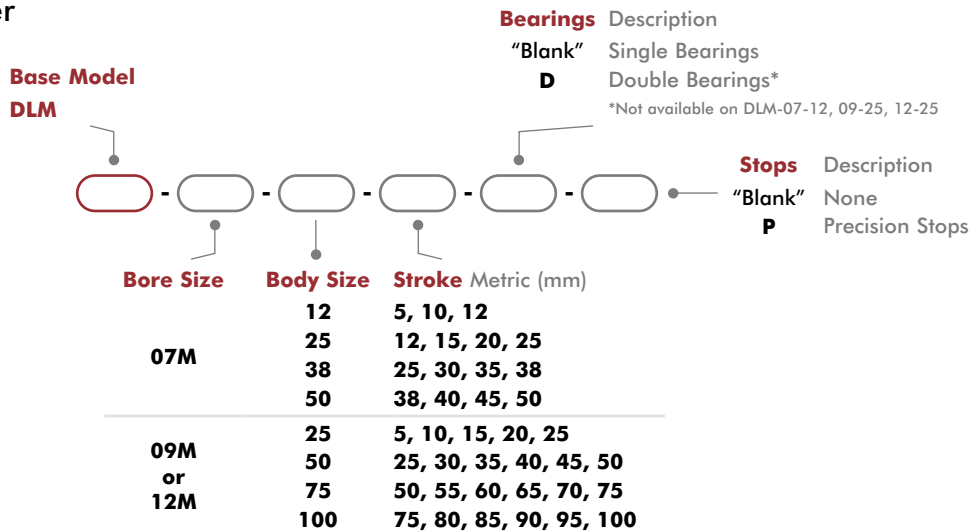
- Compact high reliability bearing design
- Excellent part position repeatability
- Double bearings -**D** for longer strokes, greater load and moment capacity
- Internal Delrin® extend and retract stops -**P** for increased repeatability
- Sense up to 8 positions with 4 adjustable magneto resistive 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

How To Order



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		1

* Sensor and cable sold separately.

Miniature Rail Thruster Slide | Technical Specifications

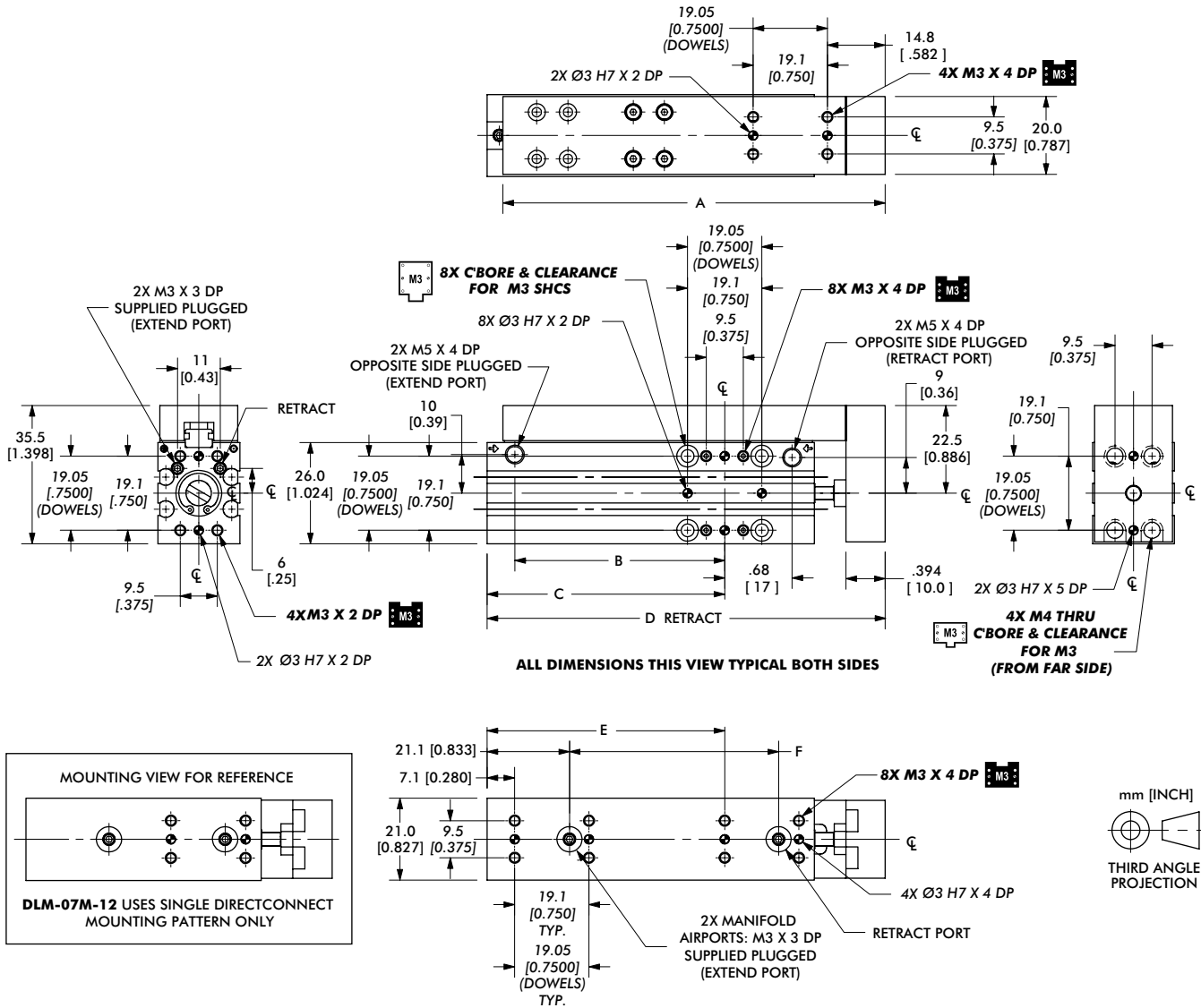
Specifications	Units	DLM-07M-12	DLM-07M-25	DLM-07M-38	DLM-07M-50
Thrust Force F @ 7 bar [100 psi]	N [lbs]	66 [15]			
Max. Stroke	mm [in]	12 [0.50]	25 [1.00]	38 [1.50]	50 [2.00]
Stroke Reduction (return)	mm [in]	5 [0.19]			
Weight	kg [lbs]	0.13 [0.28]	0.16 [0.35]	0.20 [0.43]	0.23 [0.50]
Max. Payload W	kg [lbs]	0.45 [1.0]			
Max. Payload W (-P option)	kg [lbs]	0.23 [0.5]			
Cylinder Bore \varnothing	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 [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 \varnothing	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 \varnothing	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		4-way, 2-position			



Miniature Rail Thruster Slide | Dimensions and Technical Specifications



Seal Repair Kits	Order #
Buna-N Seal Repair Kit	SLKT-236
Manifold Seal Repair Kit	SLKT-239

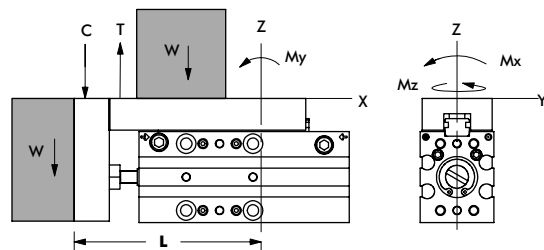
Model	A	B	C	D	E	F	L (single bearing)	L (double bearing)
DLM-07M-12	66.0 [2.599]	30 [1.18]	37.0 [1.456]	78 [3.08]	37.0 [1.456]	29.6 [1.167]	53 [2.10]	--
DLM-07M-25	98.0 [3.859]	54 [2.12]	61.0 [2.401]	102 [4.02]	60.9 [2.401]	53.6 [2.112]	61 [2.39]	73 [2.87]
DLM-07M-38	111.0 [4.370]	67 [2.63]	74.0 [2.913]	115 [4.53]	74.0 [2.913]	66.6 [2.624]	74 [2.90]	86 [3.38]
DLM-07M-50	123.0 [4.843]	79 [3.10]	86.0 [3.385]	127 [5.00]	86.0 [3.385]	78.6 [3.096]	86 [3.37]	98 [3.86]

Dimensions in mm [in]

Loading Information

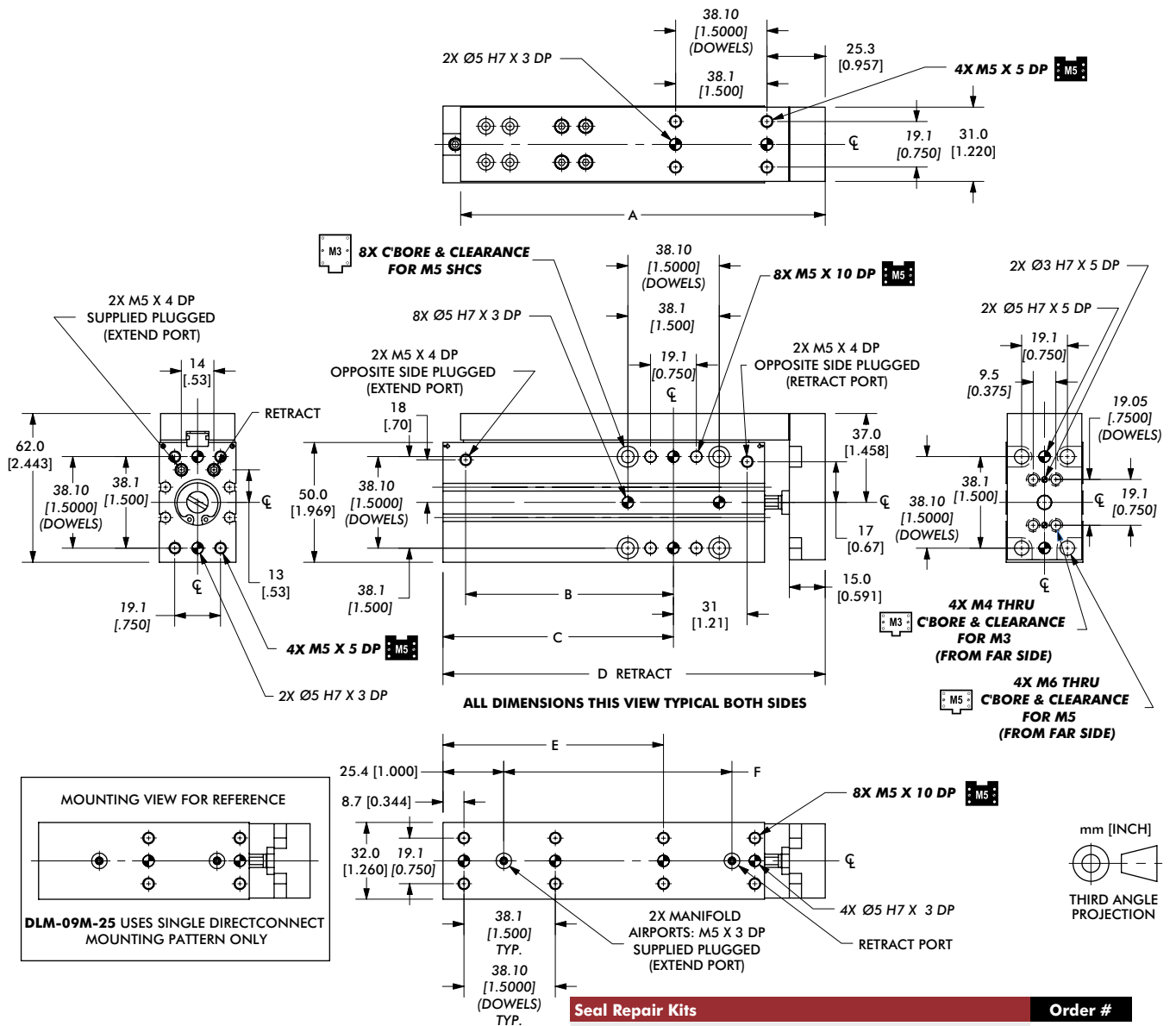
Forces shown for single bearing units. Values 2X for double bearings -D option.

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 M_y	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

Miniature Rail Thruster Slide | Dimensions and Technical Specifications



Seal Repair Kits	Order #
Buna-N Seal Repair Kit	SLKT-237
Manifold Seal Repair Kit	SLKT-240

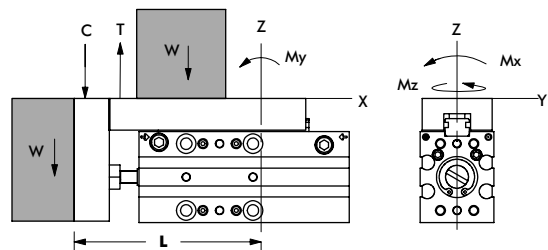
Model	A	B	C	D	E	F	L (single bearing)	L (double bearing)
DLM-09M-25	102.0 [4.016]	41 [1.60]	50.1 [1.973]	113 [4.46]	45.9 [1.809]	49.1 [1.934]	86 [3.40]	--
DLM-09M-50	152.0 [5.985]	87 [3.41]	96.1 [3.784]	159 [6.27]	91.9 [3.620]	95.1 [3.745]	105 [4.13]	121 [4.75]
DLM-09M-75	173.0 [6.811]	112 [4.39]	121.1 [4.768]	184 [7.26]	116.9 [4.604]	120.1 [4.729]	126 [4.95]	142 [5.58]
DLM-09M-100	202.0 [7.953]	137 [5.38]	146.1 [5.752]	209 [8.24]	138.9 [5.557]	145.1 [5.713]	155 [6.10]	171 [6.72]

Dimensions in mm [in]

Loading Information

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

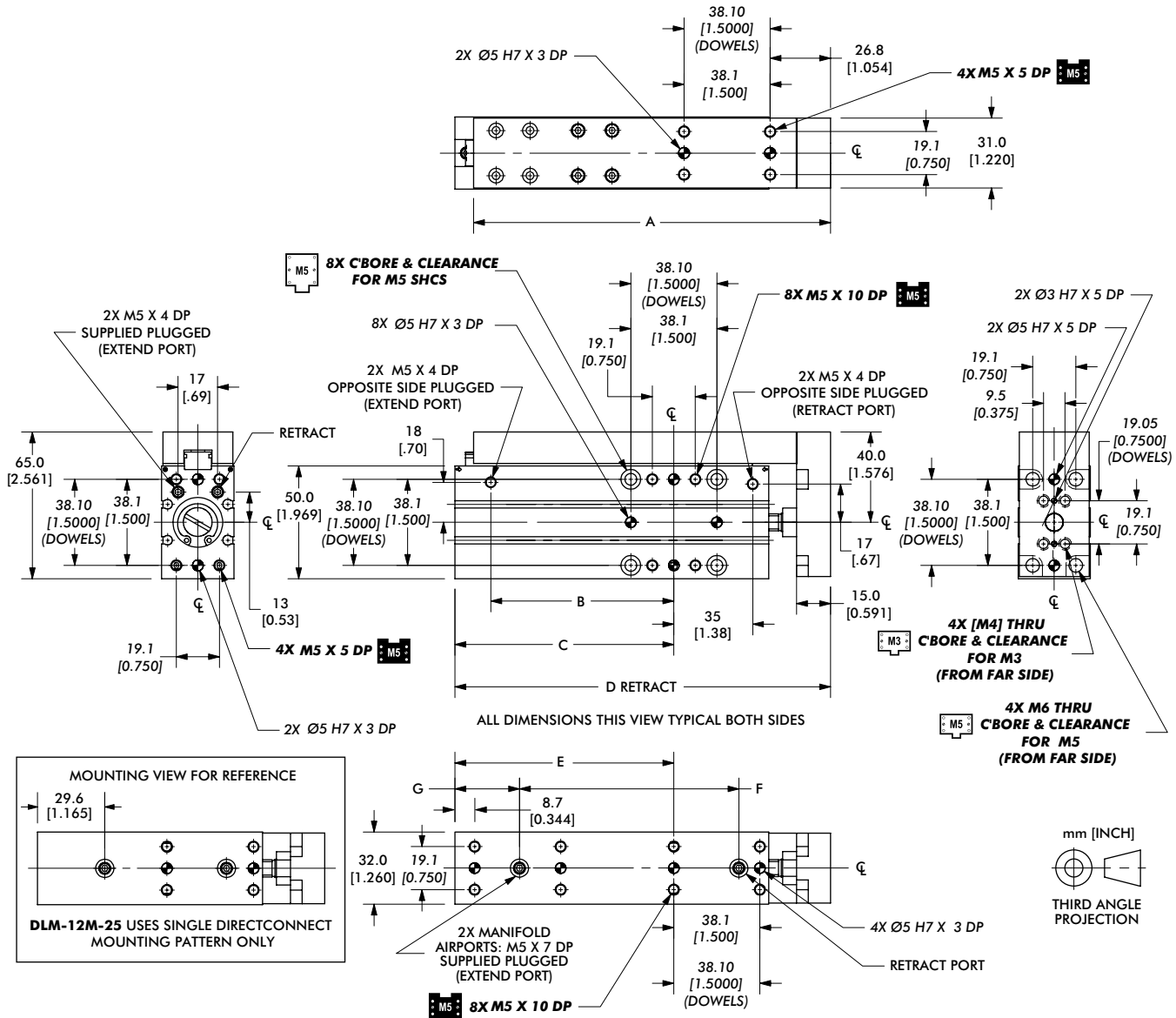
DLM-09	Static
Maximum Tensile T	735 N [165 lbs]
Maximum Compressive C	735 N [165 lbs]
Maximum Moment M_x	9.6 Nm [84 in-lbs]
Maximum Moment M_y	6.4 Nm [56 in-lbs]
Maximum Payload W	6.4 Nm [56 in-lbs]
Distance to Bearing Centerline	L (see chart above)



Flow Controls are recommended for all applications



Miniature Rail Thruster Slide | Dimensions and Technical Specifications



Seal Repair Kits	Order #
Buna-N Seal Repair Kit	SLKT-238
Manifold Seal Repair Kit	SLKT-240

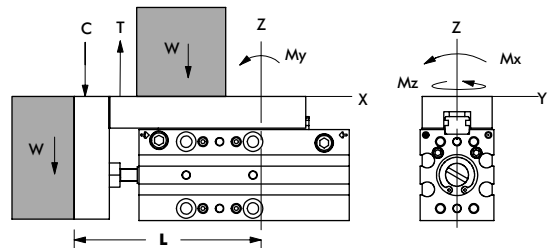
Model	A	B	C	D	E	F	G	L (single bearing)	L (double bearing)
DLM-12M-25	105.0 [4.134]	41 [1.62]	56.9 [2.242]	126 [4.97]	56.9 [2.242]	53.5 [2.108]	29.6 [1.165]	88 [3.45]	--
DLM-12M-50	158.0 [6.221]	81 [3.19]	96.9 [3.816]	166 [6.55]	96.9 [3.816]	97.1 [3.824]		104 [4.10]	122 [4.82]
DLM-12M-75	186.0 [7.323]	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 M_y	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

MPS SERIES

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

Features:

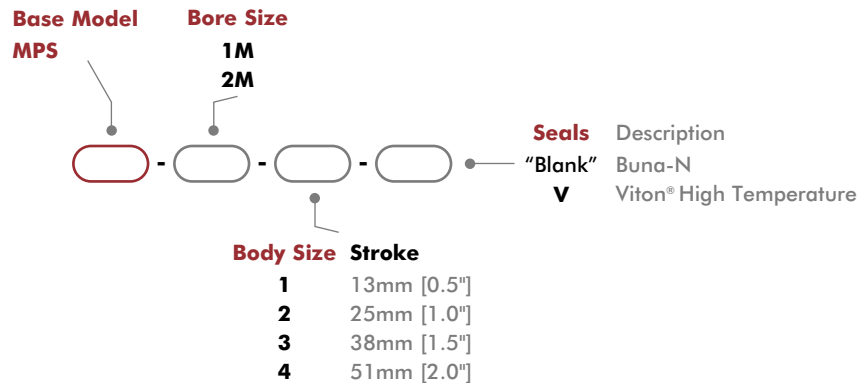
- Compact high reliability bearing design
- Excellent part position repeatability
- Zero side play with patented preloaded "Dual-V" roller bearings
- Adjustable extend/retract hard stops
- Two Position sensing with hall effect sensors
- Viton® seals for operation in high temperature environments

Applications:

- Precision applications
- Small parts handling
- OEM packaging machines



How To Order



Accessories

Sensor Accessories	Model Numbers	Part Number	Qty/Unit
Magneto Resistive Sensor with Quick. Disconnect*	All Models	OHSN-006	1-2
Magneto Resistive Sensor with Quick. Disconnect*		OHSP-006	
Quick Disconnect 2 Meter Cable Length*		CABL-010	
Quick Disconnect 5 Meter Cable Length*		CABL-013	
Pneumatic Accessories	Model Numbers	Part Number	Qty/Unit
M5 Adjustable Flow Control	All Models	VLVF-008	1-2
M2.5 Barbed Fitting		PLFT-005	2
Seal Kit (Buna-N)	-1M	SLKT-090	1
Seal Kit (Viton®)	-1M	SLKT-090V	
Seal Kit (Buna-N)	-2M	SLKT-091	
Seal Kit (Viton®)	-2M	SLKT-091V	

* Sensor and cable sold separately.

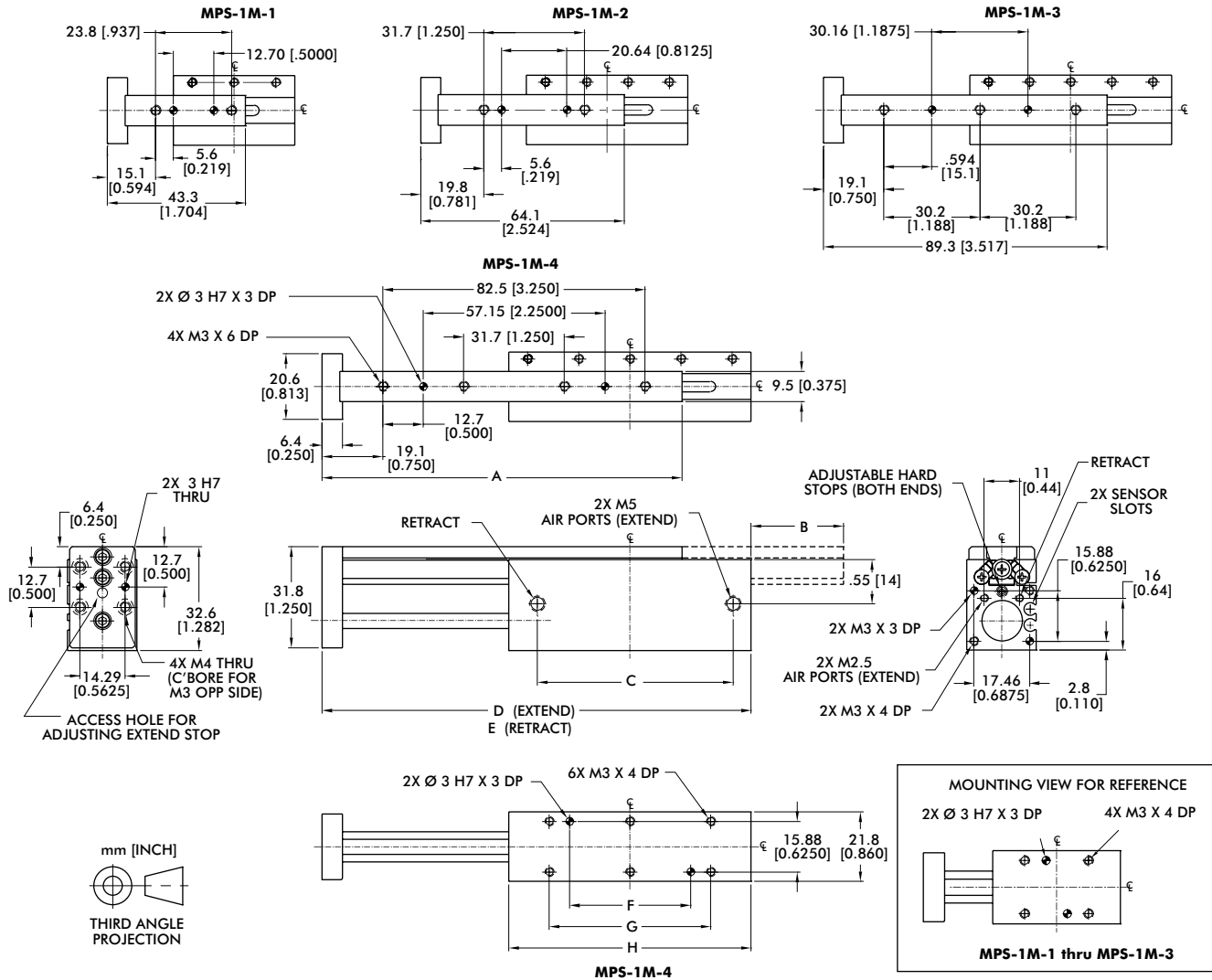
Miniature Rail Thruster Slide | Technical Specifications

Specifications	Units	1M-1	1M-2	1M-3	1M-4
Thrust Force F @ 7 bar [100 psi]	N [lbs]	67 [15]			
Max. Stroke	mm [in]	13 [0.50]	25 [1.00]	38 [1.50]	51 [2.00]
Stroke Adjustability (each end)	mm [in]	3 [0.12]		6 [0.25]	
Weight	kg [lb]	0.08 [0.18]	0.10 [0.22]	0.13 [0.28]	0.14 [0.32]
Max. Payload W	kg [lb]	0.14 [0.30]	0.32 [0.70]	0.45 [1.00]	0.59 [1.30]
Pressure Range	bar [psi]	1.5-7 [20-100]			
Cylinder Bore \varnothing	mm [in]	11.1 [0.438]			
Temperature Range (Buna-N seals)	°C [°F]	-35°~80° [-30°~180°]			
Temperature Range (Viton® seals)	°C [°F]	-30°~120° [-20°~250°]			
Actuation	sec	0.10	0.11	0.13	0.14
Linear Accuracy (per 25mm of travel)	mm [in]	±0.003 [±0.0001]			
Repeatability (-P option)	mm [in]	±0.03 [±0.010]			
Valve to Actuate Double Acting		4-way, 2-position			

Specifications	Units	2M-1	2M-2	2M-3	2M-4
Thrust Force F @ 7 bar [100 psi]	N [lbs]	196 [44]			
Max. Stroke	mm [in]	13 [0.50]	25 [1.00]	38 [1.50]	51 [2.00]
Stroke Adjustability (each end)	mm [in]	3 [0.12]		6 [0.25]	
Weight	kg [lb]	0.12 [0.26]	0.14 [0.32]	0.18 [0.40]	0.21 [0.46]
Max. Payload W	kg [lb]	0.23 [0.50]	0.45 [1.00]	0.91 [2.00]	1.36 [3.00]
Pressure Range	bar [psi]	1.5-7 [20-100]			
Cylinder Bore \varnothing	mm [in]	19.1 [0.750]			
Temperature Range (Buna-N seals)	°C [°F]	-35°~80° [-30°~180°]			
Temperature Range (Viton® seals)	°C [°F]	-30°~120° [-20°~250°]			
Actuation	sec	0.12	0.16	0.19	0.24
Linear Accuracy (per 25mm of travel)	mm [in]	±0.003 [±0.0001]			
Repeatability (-P option)	mm [in]	±0.03 [±0.010]			
Valve to Actuate Double Acting		4-way, 2-position			

MPS-1M

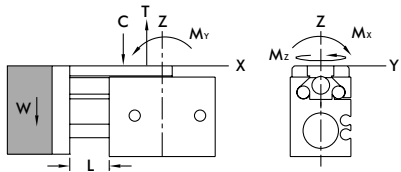
Miniature Rail Thruster Slide | Dimensions and Technical Specifications



Model	A	B	C	D	E	F	G	H
MPS-1M-1	43.3 [1.704]	--	23 [0.92]	59 [2.31]	46 [1.81]	6.35 [0.2500]	19.1 [0.750]	38.1 [1.500]
MPS-1M-2	64.1 [2.524]	5.4 [0.211]	36 [1.43]	84 [3.31]	58 [2.31]	19.05 [0.7500]	31.8 [1.250]	50.8 [2.000]
MPS-1M-3	89.3 [3.517]	17.9 [0.704]	49 [1.93]	110 [4.31]	71 [2.81]	25.40 [1.0000]	38.1 [1.500]	63.5 [2.500]
MPS-1M-4	113.1 [4.454]	29.0 [1.141]	62 [2.43]	135 [5.31]	84 [3.31]	38.10 [1.5000]	50.8 [2.000]	76.2 [3.000]

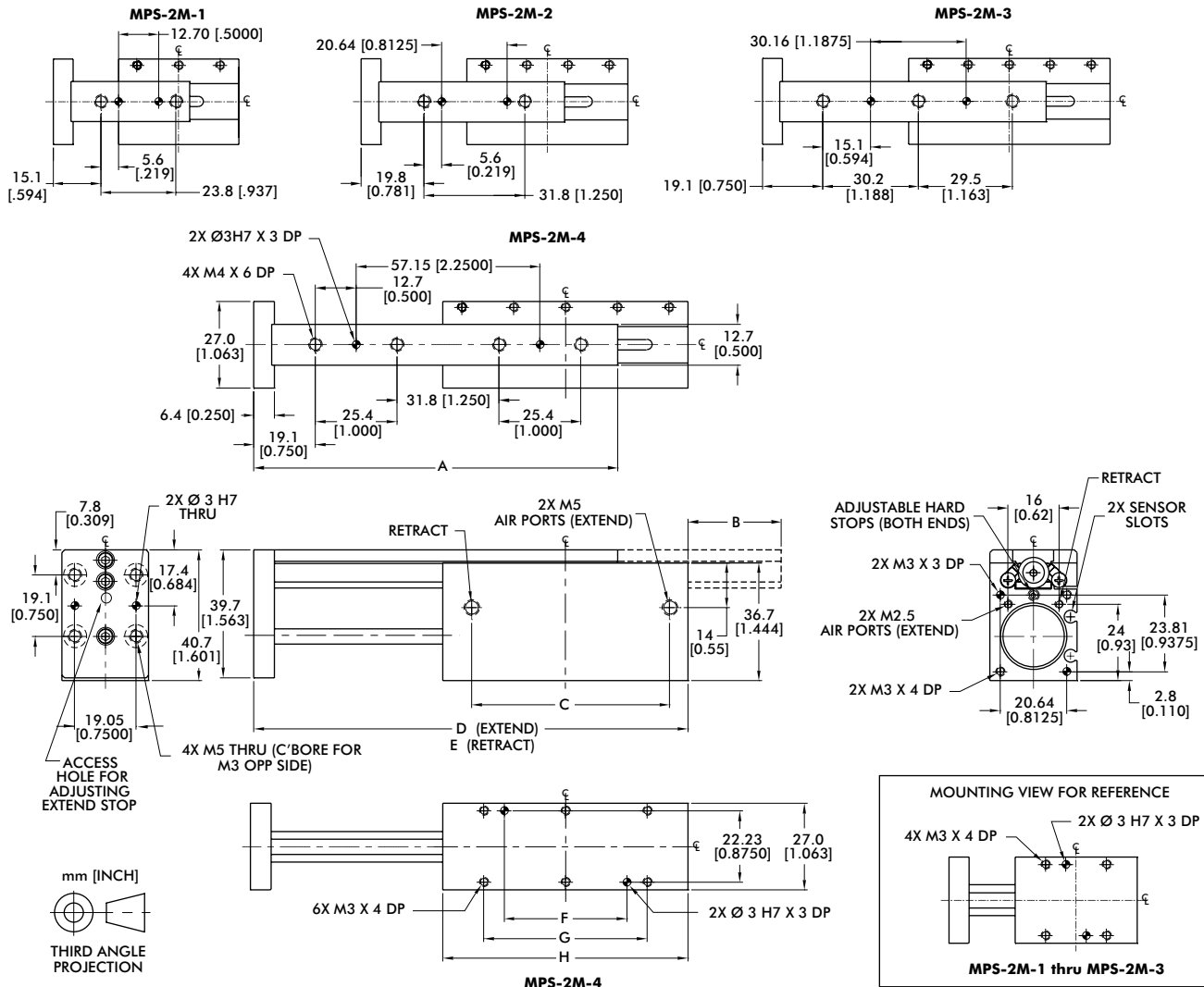
Dimensions in mm [in]

Loading Information



Model	Static	Model	Static
MPS-1M-1	Maximum Tensile T 111 N [25 lbs] Maximum Compressive C 111 N [25 lbs] Maximum Moment M_x 3.4 Nm [30 in-lbs] Maximum Moment M_y 2.3 Nm [20 in-lbs] Maximum Moment M_z 2.3 Nm [20 in-lbs]	MPS-1M-3	Maximum Tensile T 222 N [50 lbs] Maximum Compressive C 222 N [50 lbs] Maximum Moment M_x 6.8 Nm [60 in-lbs] Maximum Moment M_y 4.5 Nm [40 in-lbs] Maximum Moment M_z 4.5 Nm [40 in-lbs]
MPS-1M-2	Maximum Tensile T 156 N [35 lbs] Maximum Compressive C 156 N [35 lbs] Maximum Moment M_x 4.5 Nm [40 in-lbs] Maximum Moment M_y 3.4 Nm [30 in-lbs] Maximum Moment M_z 3.4 Nm [30 in-lbs]	MPS-1M-4	Maximum Tensile T 311 N [70 lbs] Maximum Compressive C 311 N [70 lbs] Maximum Moment M_x 9.0 Nm [80 in-lbs] Maximum Moment M_y 5.7 Nm [50 in-lbs] Maximum Moment M_z 5.7 Nm [50 in-lbs]

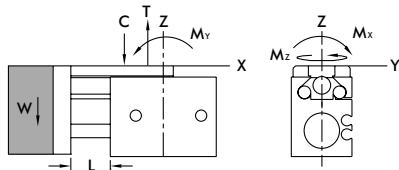
Miniature Rail Thruster Slide | Dimensions and Technical Specifications



Model	A	B	C	D	E	F	G	H
MPS-2M-1	43.3 [1.704]	--	23 [0.92]	59 [2.31]	46 [1.81]	6.35 [0.2500]	19.1 [0.750]	38.1 [1.500]
MPS-2M-2	64.1 [2.524]	5.4 [0.211]	36 [1.43]	84 [3.31]	59 [2.31]	19.05 [0.7500]	31.7 [1.250]	50.8 [2.000]
MPS-2M-3	89.5 [3.524]	17.9 [0.704]	49 [1.92]	110 [4.31]	71 [2.81]	25.40 [1.0000]	38.1 [1.500]	63.5 [2.500]
MPS-2M-4	113.1 [4.454]	29.0 [1.141]	62 [2.42]	135 [5.31]	84 [3.31]	38.10 [1.5000]	50.8 [2.000]	76.2 [3.000]

Dimensions in mm [in]

Loading Information

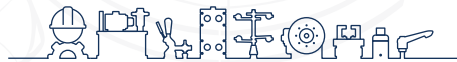


MPS-2M-1	Static
Maximum Tensile T	111 N [25 lbs]
Maximum Compressive C	111 N [25 lbs]
Maximum Moment M_x	3.4 Nm [30 in-lbs]
Maximum Moment M_y	2.3 Nm [20 in-lbs]
Maximum Moment M_z	2.3 Nm [20 in-lbs]

MPS-2M-3	Static
Maximum Tensile T	222 N [50 lbs]
Maximum Compressive C	222 N [50 lbs]
Maximum Moment M_x	6.8 Nm [60 in-lbs]
Maximum Moment M_y	4.5 Nm [40 in-lbs]
Maximum Moment M_z	4.5 Nm [40 in-lbs]

MPS-2M-2	Static
Maximum Tensile T	156 N [35 lbs]
Maximum Compressive C	156 N [35 lbs]
Maximum Moment M_x	4.5 Nm [40 in-lbs]
Maximum Moment M_y	3.4 Nm [30 in-lbs]
Maximum Moment M_z	3.4 Nm [30 in-lbs]

MPS-2M-4	Static
Maximum Tensile T	311 N [70 lbs]
Maximum Compressive C	311 N [70 lbs]
Maximum Moment M_x	9.0 Nm [80 in-lbs]
Maximum Moment M_y	5.7 Nm [50 in-lbs]
Maximum Moment M_z	5.7 Nm [50 in-lbs]



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