

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	
	06, 08		DLT-0623	
Adjustable Hard Stop	10, 12, 16, 20, 25		DLT-1023	
	06		OSAK-067	
08	OSAK-068			
Urethane Bumper/Stop Collar Kit	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	
NPN Inductive Sensor with Quick Disconnect*			OISN-014	
PNP Inductive Sensor with Quick Disconnect*	10, 12, 16, 20, 25	A, N, R	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	OHSP-005	
NPN Magneto Resistive Sensor w/Qk Disconnect*			OHSN-005	
PNP Magneto Resistive Sensor w/Qk Disconnect*	20, 25	N, R	OHSP-020	
Quick Disconnect 2 Meter Cable Length*	All Model	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 Numbers	Style	Part Number	Qty/Unit
VDMA Cylinder Mounting Kit	20, 25	U	ODLT-004	1
G1/8 Telescopic Airlines (up to 160mm)	10, 12, 16, 20, 25	All	OTAL-045	1-4
G1/8 Telescopic Airlines (up to 300mm)			OTAL-046	
G1/8 Telescopic Airlines (up to 450mm)			OTAL-047	
G1/8 Telescopic Airlines (up to 600mm)			OTAL-048	
M5 Adjustable Flow Control			06, 08	VLVF-008
G1/8 Adjustable Flow Control	10, 12, 16, 20, 25	VLVF-005		

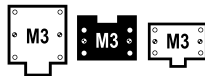
* Sensor and cable sold separately.

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

DLT SERIES - EXTERNAL AIR CYLINDER

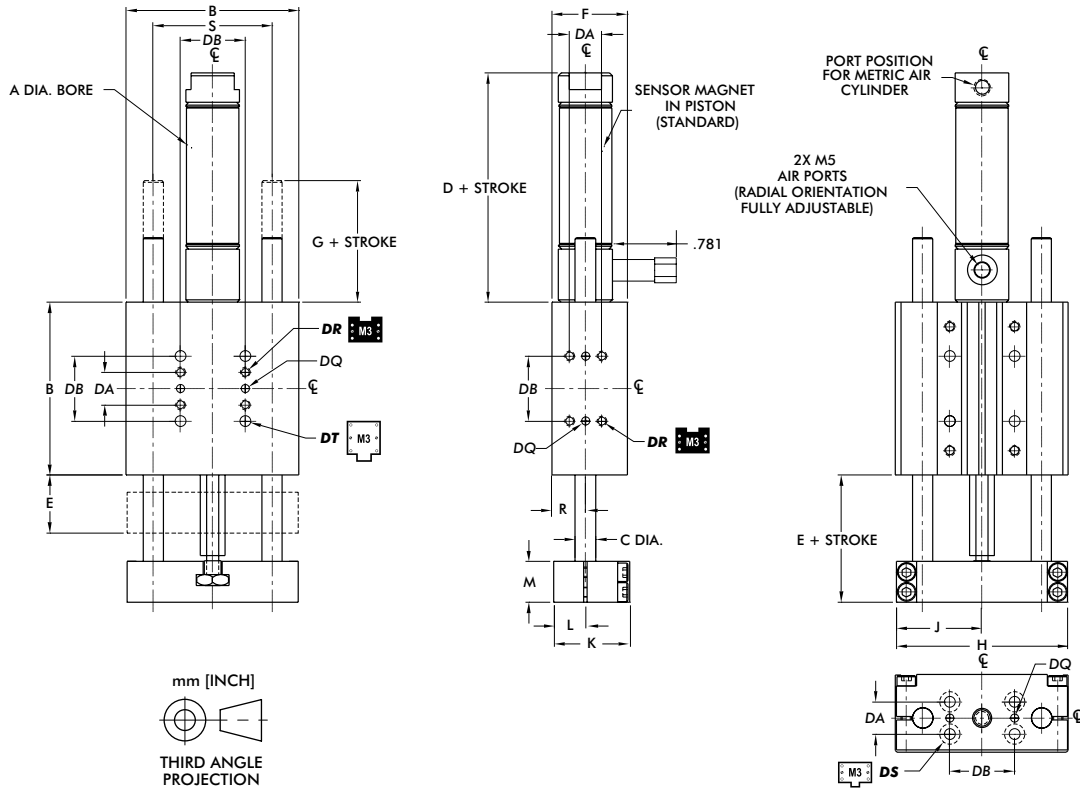
External Air Cylinder Linear Thruster Slides | Technical Specifications

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]	--	--	--	--	--
Min. Air Pressure to Release Cyl. Lock -R	bar [psi]	--	--	--	--	--	4 [60]	
Holding Force of Lock Mechanism -R	N [lbs]	--	--	--	--	--	550 [123]	



DLT-06/08M-T, U

External Air Cylinder Linear Thruster Slides | Dimensions and Technical Specifications

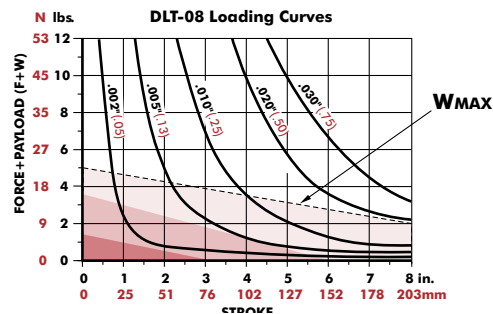
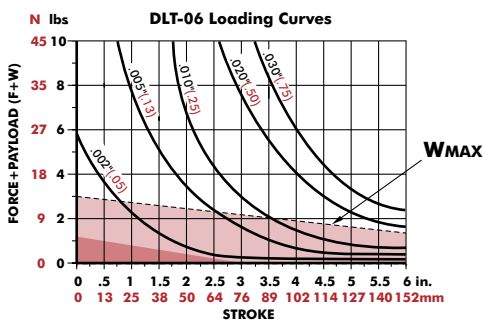


DIRECTCONNECT™ Mounting Pattern Dimensions (all sizes)					
DA	DB	DQ	DR	DS	DT
9.5 [0.375]	19.1 [0.750]	3H7 X 2 DP	M3 x 6 DP	CLR & C'BORE FOR M3	CLR & C'BORE FOR M3

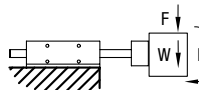
Model	Bore Ø	Body Size	Shaft Ø	Basic Unit Dimensions										
				A	B	C	D	E	F	G	H	J	K	L
DLT-06M	16 [0.63]	50.8 [2.00]	6.0 [0.236]	54.9 [2.16]	19.9 [0.783]	22.4 [0.88]	16.7 [0.66]	50.3 [1.980]	25.1 [0.990]	22.2 [0.875]	9.3 [0.365]	11.9 [0.470]	9.9 [0.390]	34.93 [1.375]
DLT-08M		63.5 [2.50]	8.0 [0.315]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

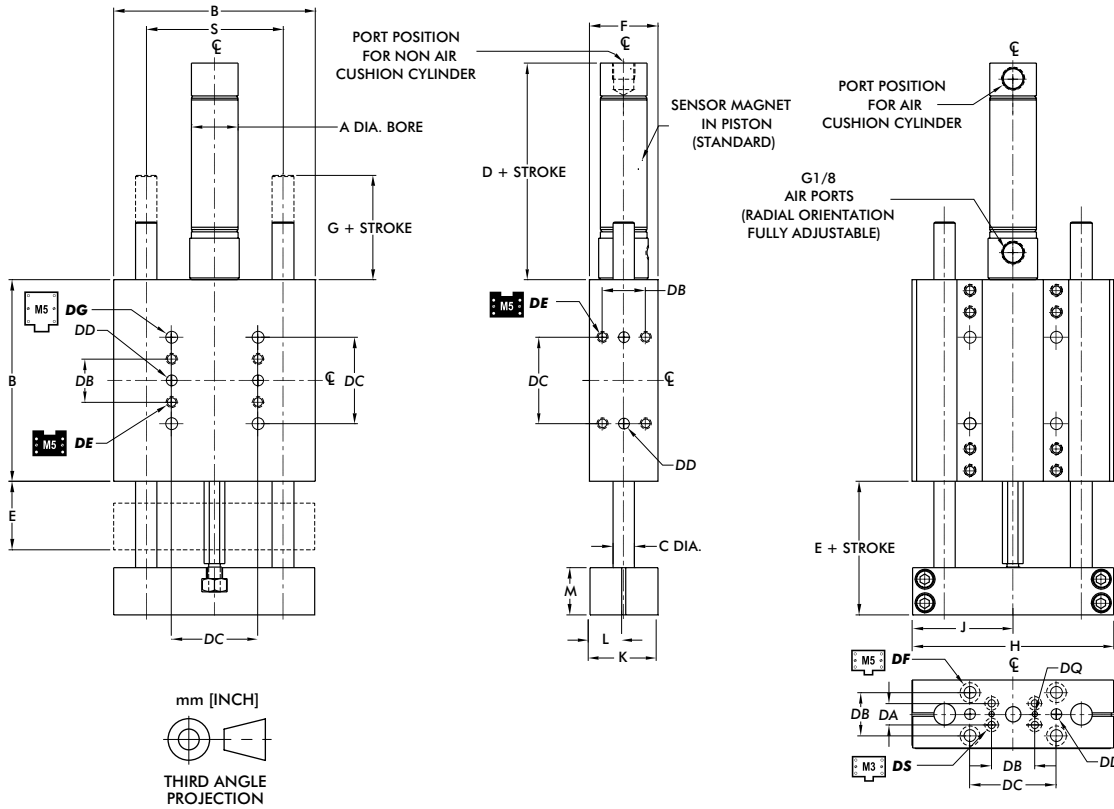
Use Double Shocks in both directions Use Single Shock in both directions Use Bumpers or Cushioned Cylinder

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-10/12/16M-A, U



External Air Cylinder Linear Thruster Slides | Dimensions and Technical Specifications

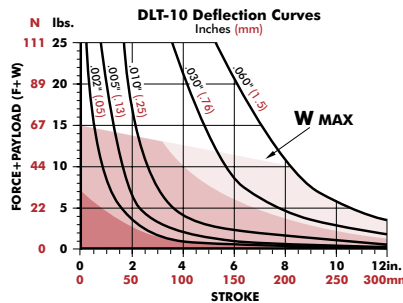


DIRECTCONNECT™ Mounting Pattern Dimensions (all sizes)									
DA	DB	DC	DD	DE	DF	DG	DQ	DS	
9.5 [0.375]	19.1 [0.750]	38.1 [1.500]	5mm H7 X 6 DP	M5 X 8.5 DP	CLEARANCE FOR M5		3H7 X 2 DP	CLR & C'BORE FOR M3	

Model	Bore Ø Body Size Shaft Ø			Basic Unit Dimensions									
	A	B	C	D	E	F	G	H	J	K	L	M	S
DLB-10M	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]	20.7 [0.813]	60.33 [2.375]
DLB-12M	25 [1]	101.6 [4.00]	12.0 [0.472]	91.5 [2.88]		41.4 [1.63]		101.2 [3.985]	50.4 [1.985]	41.0 [1.615]	20.4 [0.802]		69.85 [2.750]
DLB-16M			120.7 [4.75]	16.0 [0.630]		34.9 [1.375]	19.3 [0.76]	120.3 [4.735]	59.9 [2.360]		82.55 [3.250]		

Dimensions in mm [in]

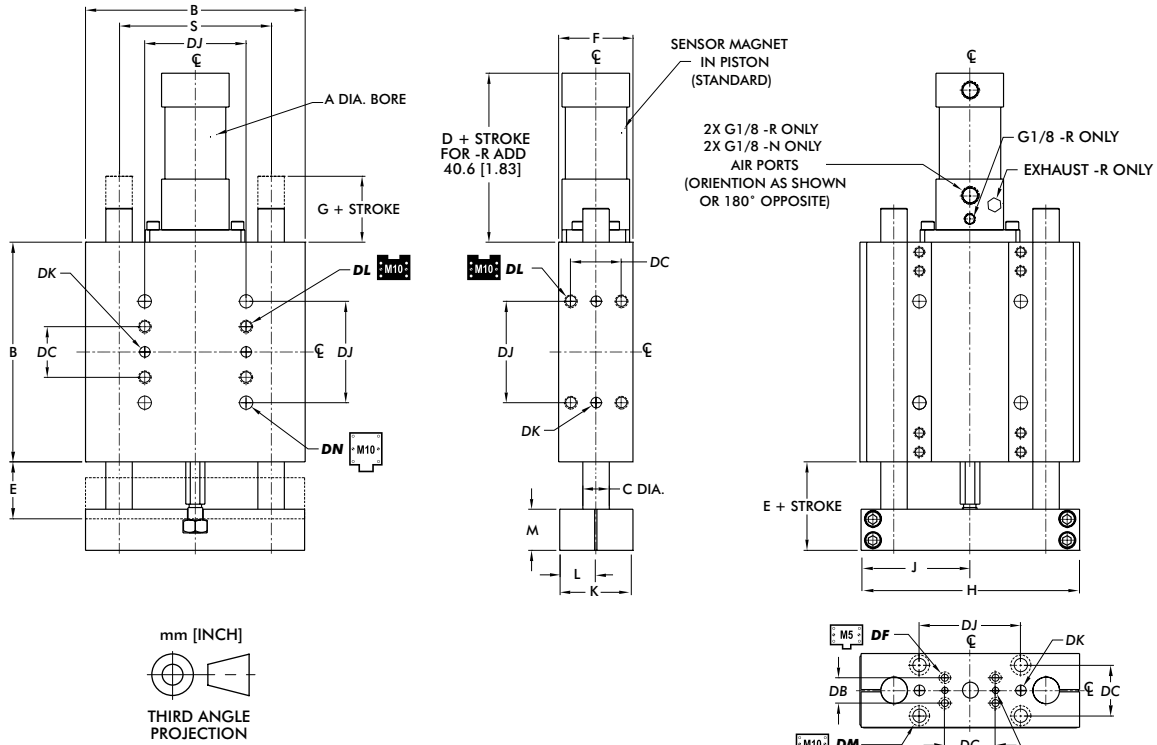
Loading Information





DLT-20/25M-A, R, U

External Air Cylinder Linear Thruster Slides | Dimensions and Technical Specifications

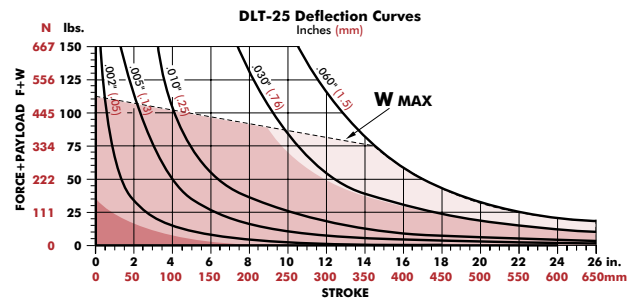
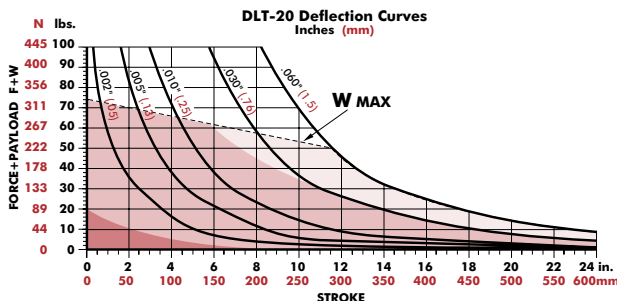


DIRECTCONNECT™ Mounting Pattern Dimensions (all sizes)									
DB	DC	DD	DF	DJ	DK	DL	DM	DN	
19.1 [0.750]	38.1 [1.500]	5mm H7 X 6 DP	CLEARANCE FOR M5	76.2 [3.000]	8mm H7 x 9.4 DP	M10 x 14.2 DP	CLR & C'BORE FOR M10		

Model	Bore Ø	Body Ø	Shaft Ø	Basic Unit Dimensions									
	A	B	C	D	E	F	G	H	J	K	L	M	S
DLB-20M	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-25M		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

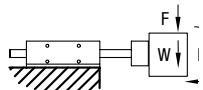


F=Externally applied force

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**

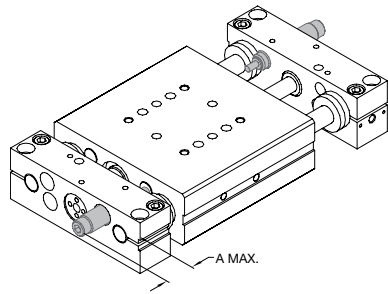
Shaded shock absorption ranges of horizontal payload (W) @ 80psi, flow controls fully open. For vertical applications do not exceed 1/2 of the recommended payload due to the additional acceleration effect of gravity.

BASE SLIDE ACCESSORIES

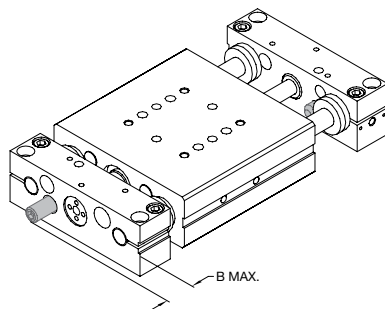
Linear Slides | Accessory Mounting Technical Data

DLB-B, L Internally Powered Base Slides

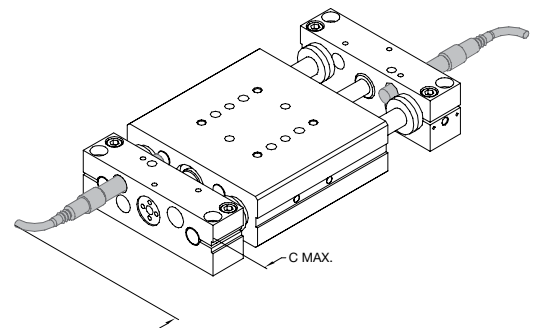
Shock Absorbers



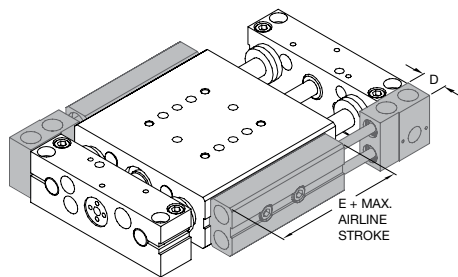
Adjustable Hard Stops



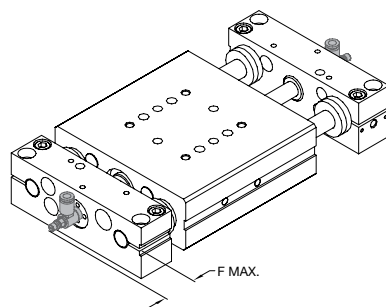
Inductive Proximity Sensors



Telescopic Airlines



Flow Controls

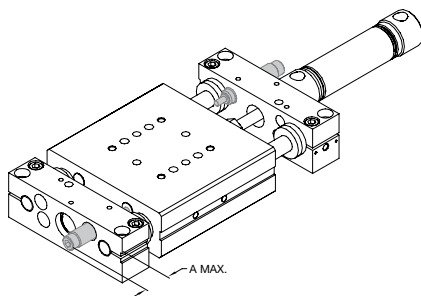


Model	A	B	C	D	E	F
DLB-06M	13.5 [0.53]	10.2 [0.40]	45.7 [1.8]	--	--	25.9 [1.02]
DLB-08M				--	--	
DLB-10M	17.8 [0.70]					
DLB-12M	24.1 [0.95]	11.9 [0.47]	63.5 [2.5]			
DLB-16M				14.7 [0.577]	91.4 [3.60]	31.8 [1.25]
DLB-20M	51.6 [2.03]		53.8 [2.1]			
DLB-25M	46.2 [1.82]	2.5 [0.10]	48.3 [1.9]			

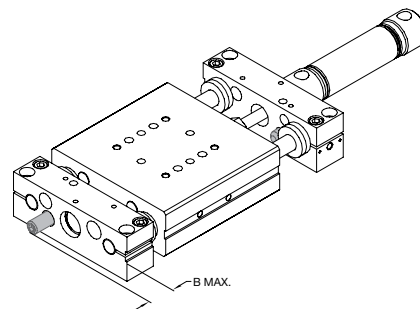
Dimensions in mm [in]

DLB-T, A, R, U Externally Powered Base Slides

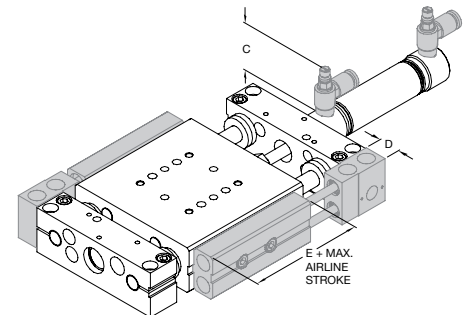
Shock Absorbers



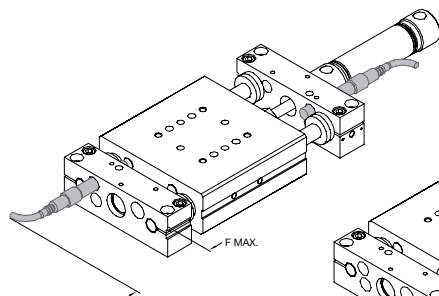
Adjustable Hard Stops



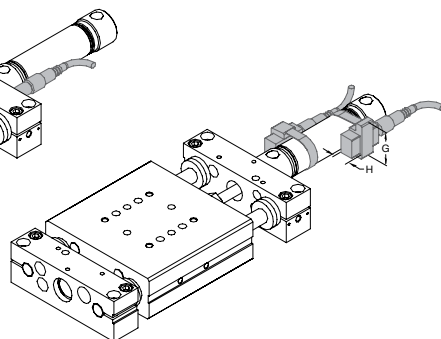
Telescoping Airlines & Flow Controls



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-10M	17.8 [0.70]							
DLB-12M	24.1 [0.95]	11.9 [0.47]				63.5 [2.5]	25.4 [1.00]	10.9 [0.43]
DLB-16M			31.8 [1.25]	14.7 [0.577]	91.4 [3.60]			
DLB-20M	51.6 [2.03]					53.8 [2.12]		
DLB-25M	46.2 [1.82]	2.5 [0.10]				48.3 [1.90]		

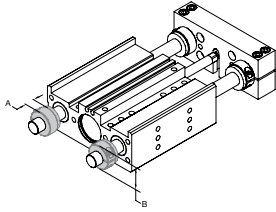
Dimensions in mm [in]

LINEAR THRUSTER ACCESSORIES

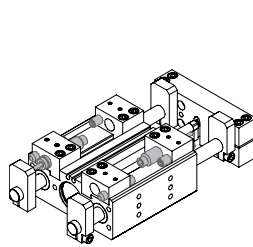
Linear Slides | Accessory Mounting Technical Data

DLT-B, E, L Internally Powered Thruster Slides

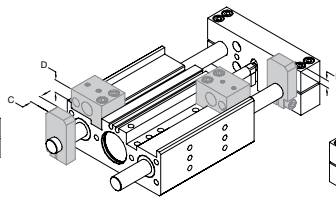
Urethane Bumpers & Clamp Collars (DLT-E, L only)



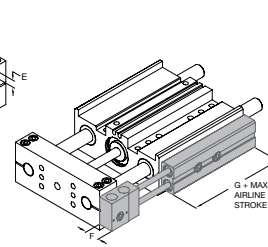
Adjustable Hard Stop & Shock Absorbers



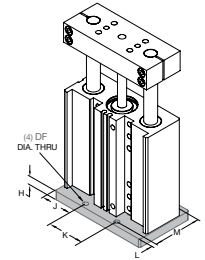
Universal Mounting Kit



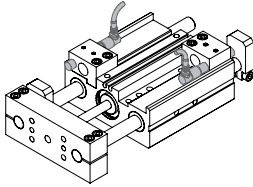
Telescoping Airlines (DLT-E, L only)



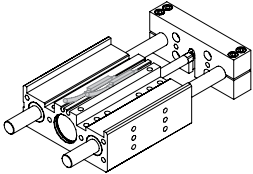
Base Flange Kit (DLT-B only)



Inductive Proximity Sensors



Magneto Resistive Sensors

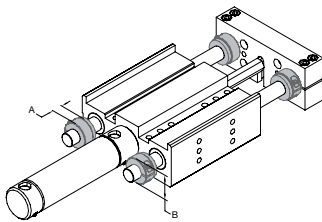


Model	A	B	C	D	E	F	G	H	J	K	L	M
DLT-06M	6.0 [0.236]	12 [0.470] 16 [0.630]	6.4 [0.250]	7.9 [0.310]	6.9 [0.270]	--	--	3.2 [0.125]	8.0 [0.313] 14.3 [0.563]	35 [1.376]	3.2 [0.125]	28.6 [1.125]
DLT-10M	8.7 [0.343]	22.1 [0.87] 9.5 [0.375]	12.2 [0.480]	8.1 [0.320]	5.8 [0.230]			9.0 [0.355]	25.4 [1.000] 32.5 [1.281]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

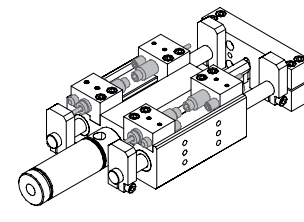
Dimensions in mm [in]

DLT-T, A, R, U Externally Powered Thruster Slides

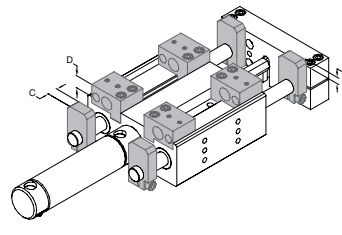
Urethane Bumpers & Clamp Collars



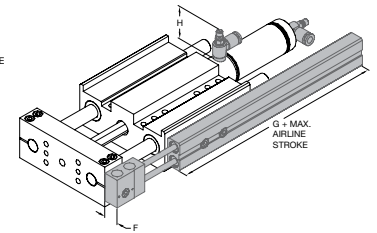
Adjustable Hard Stop & Shock Absorbers



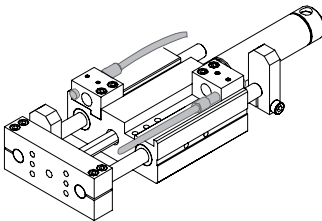
Universal Mounting Kit



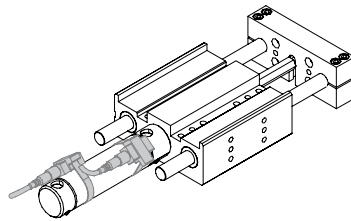
Telescoping Airlines & Flow Controls



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-10M	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-12M	9.5 [0.375]	23.9 [0.95]	11.4 [0.450]	8.6 [0.340]	14.7 [0.577]	91.4 [3.60]		28.4 [1.12]
DLT-16M	11.1 [0.437]	33.3 [1.31]	11.1 [0.437]					
DLT-20M	12.7 [0.500]	44.5 [1.75]	12.7 [0.500]	23.4 [0.92]	17.0 [0.670]			
DLT-25M								

Dimensions in mm [in]