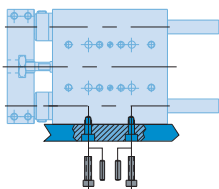
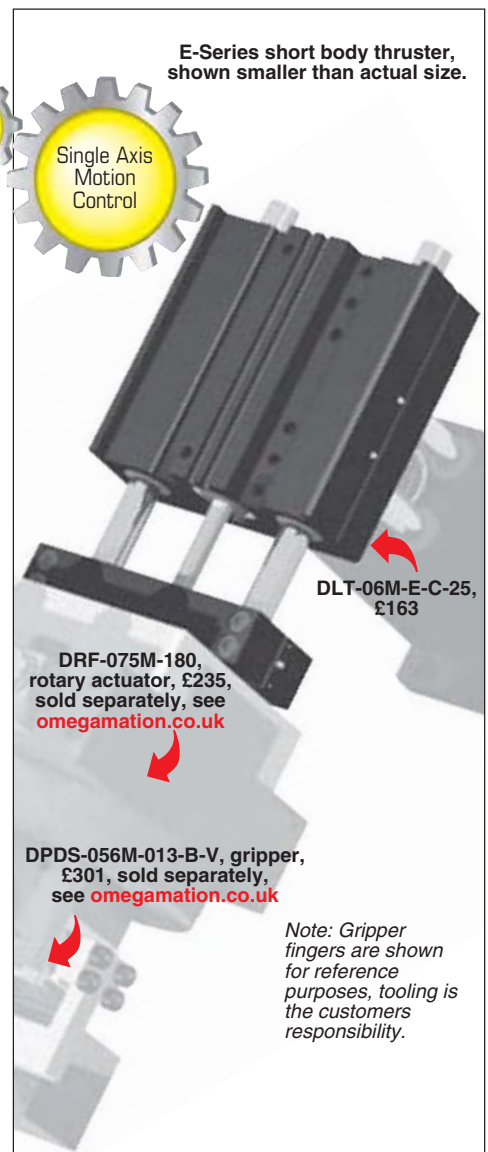
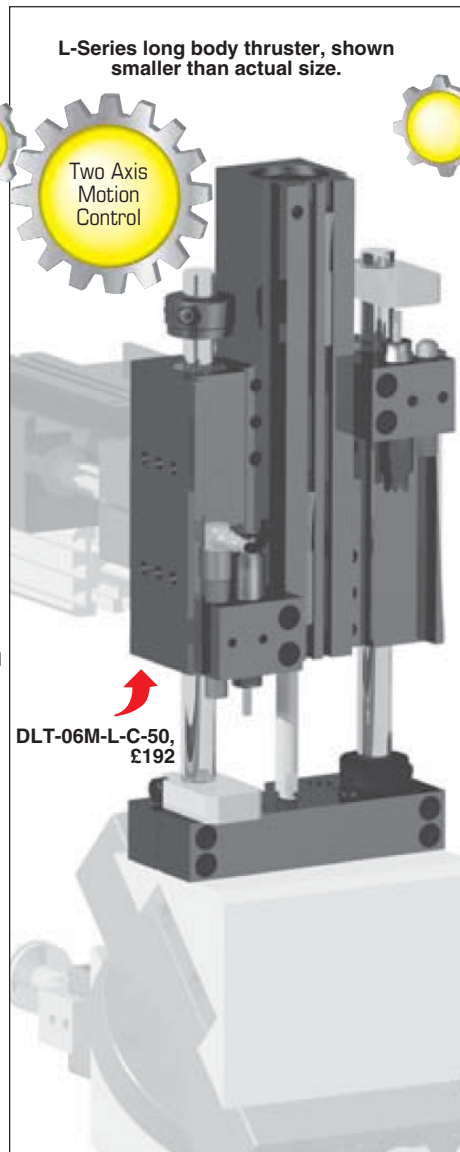




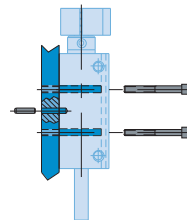
# LINEAR THRUSTER SLIDES— PNEUMATIC INTERNALLY POWERED DIRECTCONNECT™ MODULAR SERIES

**DLT Series  
Starts at  
£163**

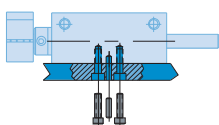
- Highly Configurable Modular Automation—Exclusive DirectConnect™ Technology
- Precision Linear Motion—5 to 150 mm of Travel
- Thruster Force 89 to 275 N at 5.5 bar (80 psi)
- Repeatability 0.03 mm with Precision Stop Option
- Up to 5 Million Cycles in Typical Application—Up to 10 Million with Maintenance
- Temperature Operating Range -35 to 80°C
- Double Acting Pneumatic Cylinder Requiring 3 to 7 bar Dry Filtered (40 micron or Better) Air Supply Along with a 4-Way, 2 Position Valve



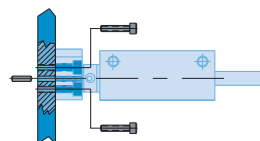
Body mounts with screws and locate with slip fit dowel pin holes on side using DIRECTCONNECT mounting patterns.



Body back mounts with screws from the front using the clearance and counterbored DIRECTCONNECT pattern and located with dowel holes.



Body can be mounted from the back using the DIRECTCONNECT pattern of threaded mounting and dowel pin holes.



Payload attaches to tooling plate DIRECTCONNECT mounting pattern with screws and locates using slip fit dowel pin holes.

# PRODUCT FEATURES



**DIRECTCONNECT™  
Mounting Patterns**  
Main bodies have tapped and counterbored through holes including slip fit dowel holes on DIRECTCONNECT mounting surface

**Inductive Proximity Sensors**  
4 or 8 mm diameter, threaded body with quick disconnect

**Shock Absorbers**  
With built-in hard stop; dual stop capable

**Misalignment Coupling**  
Increases service life

**Aircraft Quality Aluminium**

**Universal Mounting Kit**  
Contains mounting bracket, hardened steel target, and hardware; allows the mounting of shocks and adjustable hard stops

**Urethane Bumpers & Clamp Collars**

**Sensor Magnet**  
Standard in piston

**Magneto Resistive Sensors**  
Slot mounted sensor with threaded quick disconnect

**Sensors Grooves**  
For mounting Magneto Resistive Sensors

**Oil Wick**  
Supplies constant bearing lubrication

**Adjustable Hard Stops**  
For precision ( $\pm 0.03$  mm) hard stop end point positioning; allows for stop adjustment independent of shock absorber hard stop; dual stop capable

**Preloaded Linear Ball Bushings**

**Precision Ground Shafting**  
Case hardened to RC60-65; corrosion resistant optional

**DLT-10M-L-C-100, £221, shown smaller than actual size.**

## TECHNICAL SPECIFICATIONS

### Pneumatic Specifications

**Pressure Operating Range\*:**  
3 to 7 bar

**Cylinder Type:** Double acting

**Dynamic Seals:**  
Internally lubricated Buna-N

**Valve Required to Operate:**  
4-way, 2-position

### Air Quality Requirements

**Air Filtration:** 40 micron or better

**Air Lubrication:** Not necessary

**Air Humidity:** Low moisture content (dry)

### Temperature Operating Range

**Buna-N Seals (Standard):**

-35 to 80°C

**FKM Seals (Optional):**

-30 to 150°C

### Maintenance Specifications

**Expected Life:**

**Normal Application:** 5 million cycles

**With Preventative Maintenance:**

10+ million cycles\*\*

**Field Repairable:** No

**Seal Repair Kits Available:** No

### Application Restrictions:

Flow controls, shock absorbers and urethane bumpers recommended for nearly all applications. Use composite bushing in dirty or gritty environments. Never use silicone based lubricants with composite bushings.

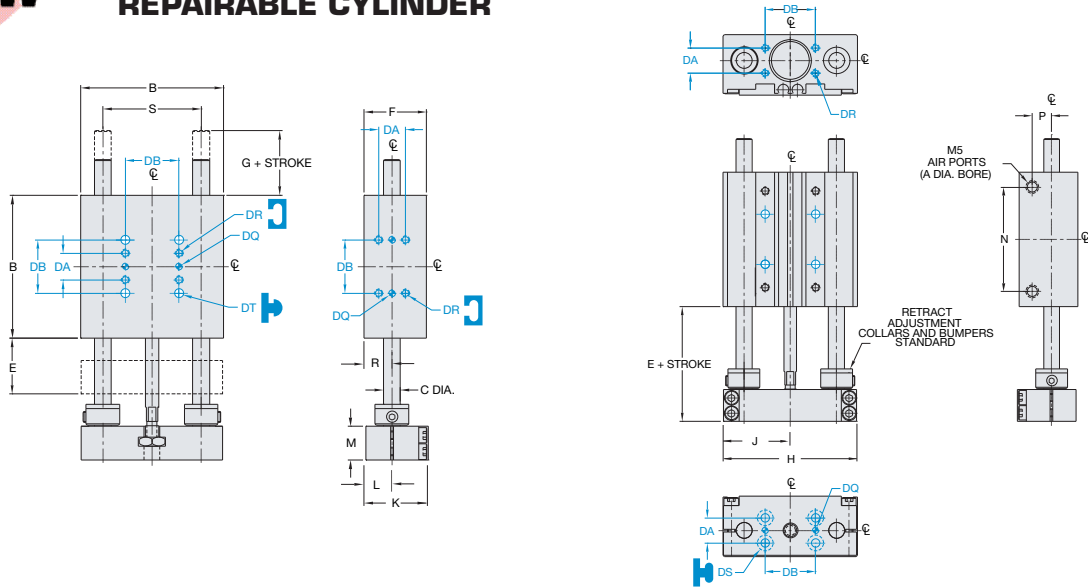
\* Higher pressure possible. Consult Sales with application details.

\*\* Addition of lubrication will greatly increase service life.



# SHORT BODY THRUSTER

## DLT-06M, 08M-E BUILT-IN REPAIRABLE CYLINDER

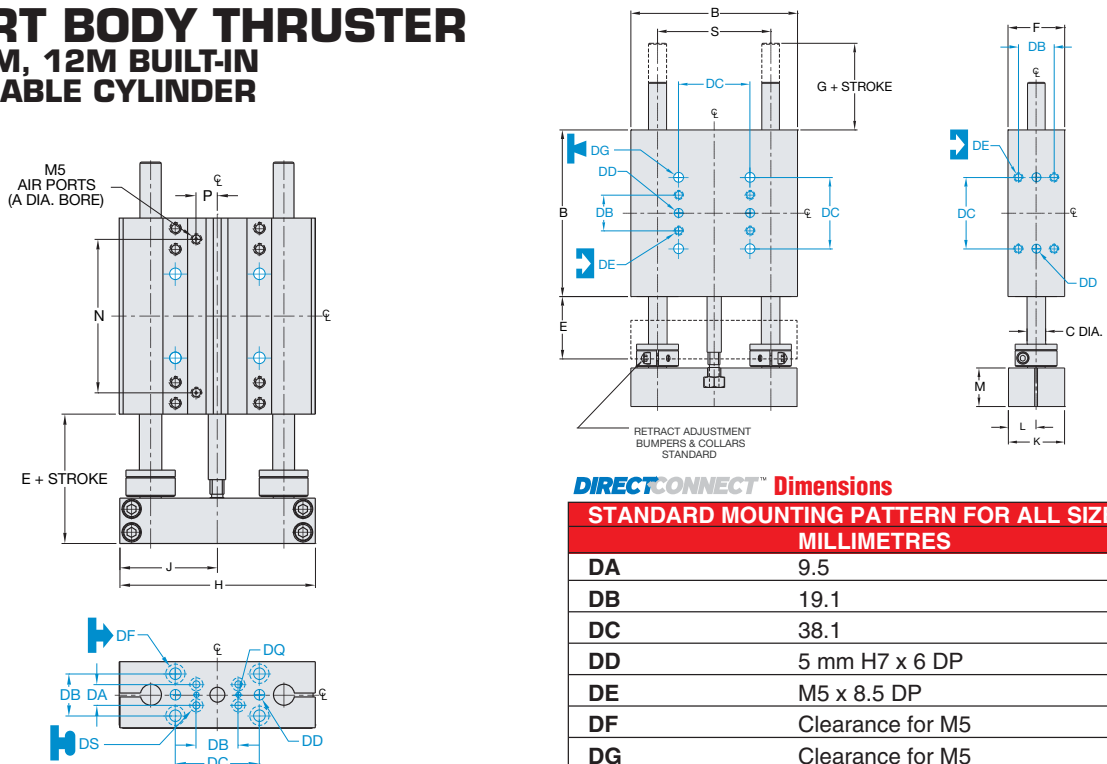


### Basic Unit Dimensions (mm)

MODEL NO.	A	B	C	E	F	G	H	J	K	L	M	N	P	R	S
DLT-06M-E	14	50.8	6	19.9	22.4	16.8	50.3	25.1	22.2	9.3	11.9	39.4	7.4	9.9	34.93
DLT-08M-E	14	63.5	8	19.9	22.4	10.4	62.7	31	22.2	9.3	11.9	52.1	7.4	9.9	44.95

# SHORT BODY THRUSTER

## DLT-10M, 12M BUILT-IN REPAIRABLE CYLINDER



### DIRECTCONNECT™ Dimensions

STANDARD MOUNTING PATTERN FOR ALL SIZES	
MILLIMETRES	
DA	9.5
DB	19.1
DC	38.1
DD	5 mm H7 x 6 DP
DE	M5 x 8.5 DP
DF	Clearance for M5
DG	Clearance for M5
DQ	3H7 x 2 DP
DS	Clr & C'bore for M3

### Basic Unit Dimensions (mm)

MODEL NO.	A	B	C	E	F	G	H	J	K	L	M	N	P	R	S
DLT-10M-E	19	88.9	9.5	33.4	30.2	20.8	88.6	44.2	29.9	14.8	20.7	69.7	9.4		60.33
DLT-12M-E	25	101.6	12	33.4	41.4	20.8	101.2	50.4	41	20.4	20.7	83.3	9.4		69.85



### To Order (Specify Model Number)

AVAILABLE FOR FAST DELIVERY!

MODEL NO.	PRICE	BORE DIA mm	BODY SIZE (Width) mm	SHAFT DIA mm	LENGTH mm	HEIGHT mm	MAX STROKE mm	WEIGHT kg	THRUSTER FORCE @ 5.5 bar
DLT-06M-E-C-25	£163	14	50.8	6	106.1	22.4	25	0.15	89
DLT-08M-E-C-44	171	14	63.5	8	137.8	22.4	44	0.30	89
DLT-10M-E-C-50	181	19	88.9	9.5	193.1	30.2	50	0.84	155
DLT-12M-E-C-50	194	25	101.6	12	205.8	41.4	50	1.35	275
DLT-06M-L-C-50	192	14	50.8	6	137.5	22.4	50	0.28	89
DLT-08M-L-C-75	202	14	63.5	8	168.8	22.4	75	0.44	89
DLT-10M-L-C-100	221	19	88.9	9.5	243.1	30.2	100	0.88	155
DLT-12M-L-C-125	249	25	101.6	12	280.8	41.4	125	1.46	275
DLT-16M-L-C-150	289	25	120.7	16	324.9	41.4	150	2.03	275

**Ordering Example:** DLT-06M-E-C-25, pneumatic precision thruster with maximum stroke of 25 mm, £163.  
 Recommended accessories include 2 inductive sensors OISP-014, £76 each, with an inductive sensor mounting kit, OSMK-076, £36 each.  
 Additional urethane bumper/stop collar kit, OSAK-067, £18.75 or 2 precision adjustable hard stops, DLT-0623, £5.40 each with 2 universal mounting kits, OSAK-069, £32 each. DLT requires a 4-way, 2-position valve to operate recommended 2 pneumatic flow controls.  
 CAD drawings available at [omegamotion.co.uk](http://omegamotion.co.uk)

### To Order (Specify Model Number)

AVAILABLE FOR FAST DELIVERY!

SHOCK/STOP ACCESSORIES			
MODEL NO.	PRICE	QUANTITY	DESCRIPTION
OSAK-069	£32.00	1, 2, 3, or 4	Universal mounting kit (shock or stop) for -06M
OSAK-070	32.00	1, 2, 3, or 4	Universal mounting kit (shock or stop) for -08M
OSAK-055	37.00	1, 2, 3, or 4	Universal mounting kit (shock, stop or sensor) for -10M
OSAK-057	39.00	1, 2, 3, or 4	Universal mounting kit (shock, stop or sensor) for -12M
OSAK-059	41.00	1, 2, 3, or 4	Universal mounting kit (shock, stop or sensor) for -16M
SHOK-030	33.50	1, 2, 3, or 4	Shock absorber for -06M and -08M (2 max on -06)*
SHOK-028	29.00	1, 2, 3, or 4	Shock absorber for -10M*
SHOK-010	33.50	1, 2, 3, or 4	Shock absorber for -12M and -16M*
DLT-0623	5.40	1, 2, 3, or 4	Adjustable hard stop for -06M and -08M*
DLT-1023	5.40	1, 2, 3, or 4	Adjustable hard stop for -10M, -12M and -16M*
OSAK-067	18.75	1	Urethane bumper/stop collar kit for -06M
OSAK-068	18.75	1	Urethane bumper/stop collar kit for -08M
OSAK-065	18.75	1	Urethane bumper/stop collar kit for -10M
OSAK-066	20.75	1	Urethane bumper/stop collar kit for -12M
OSAK-060	20.75	1	Urethane bumper/stop collar kit for -16M
SENSOR ACCESSORIES			
OSMK-076	£36.00	1 or 2	Inductive sensor mounting kit for -06M
OSMK-077	36.00	1 or 2	Inductive sensor mounting kit for -08M
OISP-011	76.00	1 or 2	Inductive PNP with quick disconnect† for -10M, -12M and -16M*
OISN-011	76.00	1 or 2	Inductive NPN with quick disconnect† for -10M, -12M and -16M*
OISP-014	76.00	1 or 2	Inductive PNP with quick disconnect† for -06M and -08M*
OISN-014	76.00	1 or 2	Inductive NPN with quick disconnect† for -06M and -08M*
OHSP-017	42.00	1 or 2	Magneto resistive sensor PNP quick disconnect all models†
OHSN-017	42.00	1 or 2	Magneto resistive sensor NPN quick disconnect all models†
CABL-010	15.50	1 or 2	Quick disconnect 2 m cable length all models†
CABL-013	17.50	1 or 2	Quick disconnect 5 m cable length all models†
PNEUMATION ACCESSORIES			
SLKT-108	£20.00	1	Cylinder repair kit for -06M, -08M
SLKT-100	18.75	1	Cylinder repair kit for -10M
SLKT-102	21.50	1	Cylinder repair kit for -12M, -16M

\* Requires universal mounting kit. † Sensor and cable sold separately.  
**Ordering Example:** For DLT-06M thruster slide order two DLT-0623, adjustable hard stops, £5.40 each, with two OISP-014, inductive PNP sensors, £76 each, and two OSMK-076, mounting kits, £36 each (sensors require two CABL-013, quick disconnect cables, 5 m long, £17.50 each). £5.40 x 2 + 76 x 2 + 36 x 2 + 17.50 x 2 = £269.80.



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