



## TBDA / HTBDA Series Twin Rod Cylinders

Two rods make guides unnecessary. Moreover, the bearing part uses optional linear ball bearings, assuring high non-rotating precision and end twisting accuracy of the plate even at full stroke. Achieving twice the thrust of previous Cylinders and high space efficiency, the flat, block body features a more compact mechanical device.

- Precise Accuracy, Non-Rotating
- Mount in Any Direction
- Magnet for Sensor Switch Included
- Double Piston Construction
- Stopper Bolt Allows for Stroke Adjustment
- RoHS Compliance

Improve the performance and reduce the size of your next generation machine. Koganei sets the standard for supplying innovative high-quality solutions with unmatched reliability. Optimized designs, with a wide variety of styles and sizes, increase speed to market as well as provide solutions for most applications. Expedite deliveries with product stocked in the USA.

KOGANEI is committed to your success from concept, to initial design, to final delivery and beyond.

### Operations

Double Acting Twin Rod  
 Double Acting Twin Rod Long Bushing

Double Acting Twin Rod Double Rod Linear Ball Bearing  
 Single Acting Push Twin Rod

Double Acting Twin Rod End Keep Head Side And Rod Side

Double Acting Twin Rod Linear Ball Bearing

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Model	Operation	Bore mm	Standard Strokes mm [in]	Max Stroke mm [in]	Port Size metric [imperial]	Max Force - Push N [lbf]	Max Force - Pull N [lbf]	Speed Range mm/s [in/s]	Pressure Range MPa [psi]	Temperature Range °C [°F]
TDA / HTDA	Double Acting Twin Rod	6	10 - 50 [1/2 - 2]	70 [2.8]	M5 x 0.8 [10-32 UNF]	39.2 [8.8]	21.7 [4.9]	100 - 500 [3.9 - 19.7]	0.2 - 0.7 [29.0 - 101.5]	0 - 60 [32 - 140]
TBDA / HTBDA	Double Acting Twin Rod	10	10 - 70 [1/2 - 3]	140 [5.5]	M5 x 0.8 [10-32 UNF]	110 [25]	70 [15.7]	100 - 500 [3.9 - 19.7]	0.15 - 0.7 [21.8 - 101.5]	0 - 60 [32 - 140]
TBDA / HTBDA	Double Acting Twin Rod	16	10 - 100 [1/2 - 4]	200 [7.9]	M5 x 0.8 [10-32 UNF]	281 [63]	211 [47]	100 - 500 [3.9 - 19.7]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
TBDA / HTBDA	Double Acting Twin Rod	20	10 - 100 [1/2 - 4]	200 [7.9]	M5 x 0.8 [10-32 UNF]	440 [99]	330 [74]	100 - 500 [3.9 - 19.7]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
TBDA / HTBDA	Double Acting Twin Rod	25	10 - 100 [1/2 - 4]	200 [7.9]	M5 x 0.8 [10-32 UNF]	687 [154]	529 [119]	100 - 500 [3.9 - 19.7]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]

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Model	Operation	Bore mm	Standard Strokes mm [in]	Max Stroke mm [in]	Port Size metric [imperial]	Max Force - Push N [lbf]	Max Force - Pull N [lbf]	Speed Range mm/s [in/s]	Pressure Range MPa [psi]	Temperature Range °C [°F]
TBDA / HTBDA	Double Acting Twin Rod	32	10 - 100 [1/2 - 4]	200 [7.9]	Rc 1/8 [1/8 NPT]	1,125 [253]	844 [190]	100 - 500 [3.9 - 19.7]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
ATBDAD	Double Acting Twin Rod Double Rod Linear Ball Bearing	16	10 - 100 [upon request]	200 [7.9]	M5 x 0.8 [upon request]	211 [47]	211 [47]	100 - 500 [3.9 - 19.7]	0.15 - 0.7 [21.8 - 101.5]	0 - 60 [32 - 140]
ATBDAD	Double Acting Twin Rod Double Rod Linear Ball Bearing	20	10 - 100 [upon request]	200 [7.9]	M5 x 0.8 [upon request]	330 [74]	330 [74]	100 - 500 [3.9 - 19.7]	0.15 - 0.7 [21.8 - 101.5]	0 - 60 [32 - 140]
ATBDAD	Double Acting Twin Rod Double Rod Linear Ball Bearing	25	10 - 100 [upon request]	200 [7.9]	M5 x 0.8 [upon request]	529 [119]	529 [119]	100 - 500 [3.9 - 19.7]	0.15 - 0.7 [21.8 - 101.5]	0 - 60 [32 - 140]
TBDAK	Double Acting Twin Rod End Keep Head Side And Rod Side	16	10 - 80 [upon request]	180 [7.1]	M5 x 0.8 [upon request]	281 [63]	211 [47]	100 - 500 [3.9 - 19.7]	0.15 - 0.7 [21.8 - 101.5]	0 - 60 [32 - 140]
TBDAK	Double Acting Twin Rod End Keep Head Side And Rod Side	20	10 - 80 [upon request]	180 [7.1]	M5 x 0.8 [upon request]	440 [99]	330 [74]	100 - 500 [3.9 - 19.7]	0.15 - 0.7 [21.8 - 101.5]	0 - 60 [32 - 140]
TBDAK	Double Acting Twin Rod End Keep Head Side And Rod Side	25	10 - 80 [upon request]	180 [7.1]	M5 x 0.8 [upon request]	687 [154]	529 [119]	100 - 500 [3.9 - 19.7]	0.15 - 0.7 [21.8 - 101.5]	0 - 60 [32 - 140]
ATBDA	Double Acting Twin Rod Linear Ball Bearing	10	10 - 70 [upon request]	140 [5.5]	M5 x 0.8 [upon request]	110 [25]	70 [15.7]	100 - 500 [3.9 - 19.7]	0.15 - 0.7 [21.8 - 101.5]	0 - 60 [32 - 140]
ATBDA	Double Acting Twin Rod Linear Ball Bearing	16	10 - 100 [upon request]	200 [7.9]	M5 x 0.8 [upon request]	281 [63]	211 [47]	100 - 500 [3.9 - 19.7]	0.15 - 0.7 [21.8 - 101.5]	0 - 60 [32 - 140]
ATBDA	Double Acting Twin Rod Linear Ball Bearing	20	10 - 100 [upon request]	200 [7.9]	M5 x 0.8 [upon request]	440 [99]	330 [74]	100 - 500 [3.9 - 19.7]	0.15 - 0.7 [21.8 - 101.5]	0 - 60 [32 - 140]
ATBDA	Double Acting Twin Rod Linear Ball Bearing	25	10 - 100 [upon request]	200 [7.9]	M5 x 0.8 [upon request]	687 [154]	529 [119]	100 - 500 [3.9 - 19.7]	0.15 - 0.7 [21.8 - 101.5]	0 - 60 [32 - 140]
ATBDA	Double Acting Twin Rod Linear Ball Bearing	32	10 - 100 [upon request]	200 [7.9]	Rc 1/8 [upon request]	1,125 [253]	844 [190]	100 - 500 [3.9 - 19.7]	0.15 - 0.7 [21.8 - 101.5]	0 - 60 [32 - 140]
TBDAM / HTBDAM	Double Acting Twin Rod Long Bushing	10	10 - 70 [1/2 - 3]	140 [5.5]	M5 x 0.8 [10-32 UNF]	110 [25]	70 [15.7]	100 - 500 [3.9 - 19.7]	0.15 - 0.7 [21.8 - 101.5]	0 - 60 [32 - 140]
TBDAM / HTBDAM	Double Acting Twin Rod Long Bushing	16	10 - 100 [1/2 - 4]	200 [7.9]	M5 x 0.8 [10-32 UNF]	281 [63]	211 [47]	100 - 500 [3.9 - 19.7]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
TBDAM / HTBDAM	Double Acting Twin Rod Long Bushing	20	10 - 100 [1/2 - 4]	200 [7.9]	M5 x 0.8 [10-32 UNF]	440 [99]	330 [74]	100 - 500 [3.9 - 19.7]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]

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Model	Operation	Bore mm	Standard Strokes mm [in]	Max Stroke mm [in]	Port Size metric [imperial]	Max Force - Push N [lbf]	Max Force - Pull N [lbf]	Speed Range mm/s [in/s]	Pressure Range MPa [psi]	Temperature Range °C [°F]
TBDAM / HTBDAM	Double Acting Twin Rod Long Bushing	25	10 - 100 [1/2 - 4]	200 [7.9]	M5 x 0.8 [10-32 UNF]	687 [154]	529 [119]	100 - 500 [3.9 - 19.7]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
TBDAM / HTBDAM	Double Acting Twin Rod Long Bushing	32	10 - 100 [1/2 - 4]	200 [7.9]	Rc 1/8 [1/8 NPT]	1,125 [253]	844 [190]	100 - 500 [3.9 - 19.7]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
TBSA / HTBSA	Single Acting Push Twin Rod	10	10 - 60 [1/2 - 2 1/2]	60 [2.4]	M5 x 0.8 [10-32 UNF]	68.3 [15.4]	41.6 [9.4]	100 - 500 [3.9 - 19.7]	0.25 - 0.7 [36.3 - 101.5]	0 - 60 [32 - 140]
TBSA / HTBSA	Single Acting Push Twin Rod	16	10 - 60 [1/2 - 2 1/2]	60 [2.4]	M5 x 0.8 [10-32 UNF]	240 [54]	41.1 [9.2]	100 - 500 [3.9 - 19.7]	0.2 - 0.7 [29.0 - 101.5]	0 - 60 [32 - 140]
TBSA / HTBSA	Single Acting Push Twin Rod	20	10 - 60 [1/2 - 2 1/2]	60 [2.4]	M5 x 0.8 [10-32 UNF]	392 [88]	47.4 [10.7]	100 - 500 [3.9 - 19.7]	0.2 - 0.7 [29.0 - 101.5]	0 - 60 [32 - 140]
TBSA / HTBSA	Single Acting Push Twin Rod	25	10 - 60 [1/2 - 2 1/2]	60 [2.4]	M5 x 0.8 [10-32 UNF]	606 [136]	80.4 [18.1]	100 - 500 [3.9 - 19.7]	0.2 - 0.7 [29.0 - 101.5]	0 - 60 [32 - 140]