



## TBDA / HTBDA Cleanroom Series - Twin Rod Cylinders

Ingenious non-rotating actuator combines two cylinders into one compact body, reducing design costs and number of parts for non-rotating devices. Strengthened long bushing for the rod bearings provides efficient guiding.

- Twin Piston Design for Double the Force
- Non-Rotating Accuracy from +/- 0.3° to 0.45°
- RoHS Compliance
- Mount in Any Direction
- Magnetic Piston for Sensor Activation Standard

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 Clean System

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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]
CS-TDA	Double Acting Twin Rod Clean System	6	10 - 50 [upon request]	70 [2.8]	M5 x 0.8 [upon request]	39.2 [8.8]	21.7 [4.9]	100 - 300 [3.9 - 11.8]	0.3 - 0.7 [43.5 - 101.5]	0 - 60 [32 - 140]
CS-TBDA	Double Acting Twin Rod Clean System	10	10 - 70 [upon request]	140 [5.5]	M5 x 0.8 [upon request]	110 [25]	70 [15.7]	100 - 300 [3.9 - 11.8]	0.15 - 0.7 [21.8 - 101.5]	0 - 60 [32 - 140]
CS-TBDA	Double Acting Twin Rod Clean System	16	10 - 100 [upon request]	200 [7.9]	M5 x 0.8 [upon request]	281 [63]	211 [47]	100 - 300 [3.9 - 11.8]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
CS-TBDA	Double Acting Twin Rod Clean System	20	10 - 100 [upon request]	200 [7.9]	M5 x 0.8 [upon request]	440 [99]	330 [74]	100 - 300 [3.9 - 11.8]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
CS-TBDA	Double Acting Twin Rod Clean System	25	10 - 100 [upon request]	200 [7.9]	M5 x 0.8 [upon request]	687 [154]	529 [119]	100 - 300 [3.9 - 11.8]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
CS-TBDA	Double Acting Twin Rod Clean System	32	10 - 100 [upon request]	200 [7.9]	Rc 1/8 [upon request]	1,125 [253]	844 [190]	100 - 300 [3.9 - 11.8]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]

Focused on providing industry leading pneumatic, fluid handling, and electrical automation components and assemblies for the OEM market | Think KOGANEI