



## BDA / HBDA Series Multi Mount Cylinders

This Series provides OEM customers the most compact body design along with non-rotating rod specifications. Four mounting options provide flexibility to orient this cylinder to your design rather than changing your design because of a component.

- High Degree of Parallel and Perpendicular Accuracy
- Non-rotating Types Available
- 3 Sensor Types Optional
- Combination of a Square and Compact Body
- 4 Surface Mounting Options
- 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  
Single Acting Pull

Double Acting Double Rod  
Single Acting Pull Non-Rotating

Double Acting Double Rod Non-Rotating  
Single Acting Push

Double Acting Non-Rotating  
Single Acting Push Non-Rotating

## BDA / HBDA Series Multi Mount Cylinders

[Click Here for Access to Catalogs, CAD Drawings, Videos and More!](#)

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]
<a href="#">BDA / HBDA</a>	Double Acting	6	5 - 30 [1/4 - 1.25]	30 [1.2]	M5 x 0.8 [10-32 UNF]	19.7 [4.4]	14.8 [3.3]	50 - 500 [2.0 - 19.7]	0.15 - 0.7 [21.8 - 101.5]	0 - 60 [32 - 140]
<a href="#">BDA / HBDA</a>	Double Acting	10	5 - 30 [1/4 - 1.25]	30 [1.2]	M5 x 0.8 [10-32 UNF]	55 [12.4]	41.2 [9.3]	50 - 500 [2.0 - 19.7]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
<a href="#">BDA / HBDA</a>	Double Acting	16	5 - 30 [1/4 - 1.25]	30 [1.2]	M5 x 0.8 [10-32 UNF]	141 [32]	120 [27]	50 - 500 [2.0 - 19.7]	0.08 - 0.7 [11.6 - 101.5]	0 - 60 [32 - 140]
<a href="#">BDAD / HBDAD</a>	Double Acting Double Rod	6	5 - 30 [1/4 - 1.25]	30 [1.2]	M5 x 0.8 [10-32 UNF]	14.8 [3.3]	14.8 [3.3]	50 - 500 [2.0 - 19.7]	0.2 - 0.7 [29.0 - 101.5]	0 - 60 [32 - 140]
<a href="#">BDAD / HBDAD</a>	Double Acting Double Rod	10	5 - 30 [1/4 - 1.25]	30 [1.2]	M5 x 0.8 [10-32 UNF]	41.2 [9.3]	41.2 [9.3]	50 - 500 [2.0 - 19.7]	0.15 - 0.7 [21.8 - 101.5]	0 - 60 [32 - 140]
<a href="#">BDAD / HBDAD</a>	Double Acting Double Rod	16	5 - 30 [1/4 - 1.25]	30 [1.2]	M5 x 0.8 [10-32 UNF]	120 [27]	120 [27]	50 - 500 [2.0 - 19.7]	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

### BDA / HBDA Series Multi Mount Cylinders

[Click Here for Access to Catalogs, CAD Drawings, Videos and More!](#)

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]
<a href="#">BDADL / HBDADL</a>	Double Acting Double Rod Non-Rotating	6	5 - 30 [1/4 - 1.25]	30 [1.2]	M5 x 0.8 [10-32 UNF]	14.8 [3.3]	14.8 [3.3]	50 - 500 [2.0 - 19.7]	0.2 - 0.7 [29.0 - 101.5]	0 - 60 [32 - 140]
<a href="#">BDADL / HBDADL</a>	Double Acting Double Rod Non-Rotating	10	5 - 30 [1/4 - 1.25]	30 [1.2]	M5 x 0.8 [10-32 UNF]	41.2 [9.3]	41.2 [9.3]	50 - 500 [2.0 - 19.7]	0.15 - 0.7 [21.8 - 101.5]	0 - 60 [32 - 140]
<a href="#">BDADL / HBDADL</a>	Double Acting Double Rod Non-Rotating	16	5 - 30 [1/4 - 1.25]	30 [1.2]	M5 x 0.8 [10-32 UNF]	120 [27]	120 [27]	50 - 500 [2.0 - 19.7]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
<a href="#">BDAL / HBDAL</a>	Double Acting Non-Rotating	6	5 - 30 [1/4 - 1.25]	30 [1.2]	M5 x 0.8 [10-32 UNF]	19.7 [4.4]	14.8 [3.3]	50 - 500 [2.0 - 19.7]	0.2 - 0.7 [29.0 - 101.5]	0 - 60 [32 - 140]
<a href="#">BDAL / HBDAL</a>	Double Acting Non-Rotating	10	5 - 30 [1/4 - 1.25]	30 [1.2]	M5 x 0.8 [10-32 UNF]	55 [12.4]	41.2 [9.3]	50 - 500 [2.0 - 19.7]	0.15 - 0.7 [21.8 - 101.5]	0 - 60 [32 - 140]
<a href="#">BDAL / HBDAL</a>	Double Acting Non-Rotating	16	5 - 30 [1/4 - 1.25]	30 [1.2]	M5 x 0.8 [10-32 UNF]	141 [32]	120 [27]	50 - 500 [2.0 - 19.7]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
<a href="#">BTA / HBTA</a>	Single Acting Pull	6	5 - 15 [1/4 - 1/2]	15 [0.6]	M5 x 0.8 [10-32 UNF]	10.9 [2.5]	3.9 [0.9]	50 - 500 [2.0 - 19.7]	0.3 - 0.7 [43.5 - 101.5]	0 - 60 [32 - 140]
<a href="#">BTA / HBTA</a>	Single Acting Pull	10	5 - 15 [1/4 - 1/2]	15 [0.6]	M5 x 0.8 [10-32 UNF]	33.4 [7.5]	7.8 [1.8]	50 - 500 [2.0 - 19.7]	0.2 - 0.7 [29.0 - 101.5]	0 - 60 [32 - 140]
<a href="#">BTA / HBTA</a>	Single Acting Pull	16	5 - 15 [1/4 - 1/2]	15 [0.6]	M5 x 0.8 [10-32 UNF]	98.8 [22.2]	21.6 [4.9]	50 - 500 [2.0 - 19.7]	0.2 - 0.7 [29.0 - 101.5]	0 - 60 [32 - 140]
<a href="#">BTAL / HBTAL</a>	Single Acting Pull Non-Rotating	6	5 - 15 [1/4 - 1/2]	15 [0.6]	M5 x 0.8 [10-32 UNF]	14.8 [3.3]	3.9 [0.9]	50 - 500 [2.0 - 19.7]	0.35 - 0.7 [50.8 - 101.5]	0 - 60 [32 - 140]
<a href="#">BTAL / HBTAL</a>	Single Acting Pull Non-Rotating	10	5 - 15 [1/4 - 1/2]	15 [0.6]	M5 x 0.8 [10-32 UNF]	41.2 [9.3]	7.8 [1.8]	50 - 500 [2.0 - 19.7]	0.25 - 0.7 [36.3 - 101.5]	0 - 60 [32 - 140]
<a href="#">BTAL / HBTAL</a>	Single Acting Pull Non-Rotating	16	5 - 15 [1/4 - 1/2]	15 [0.6]	M5 x 0.8 [10-32 UNF]	120 [27]	21.6 [4.9]	50 - 500 [2.0 - 19.7]	0.2 - 0.7 [29.0 - 101.5]	0 - 60 [32 - 140]
<a href="#">BSA / HBSA</a>	Single Acting Push	6	5 - 15 [1/4 - 1/2]	15 [0.6]	M5 x 0.8 [10-32 UNF]	15.8 [3.6]	3.9 [0.9]	50 - 500 [2.0 - 19.7]	0.2 - 0.7 [29.0 - 101.5]	0 - 60 [32 - 140]
<a href="#">BSA / HBSA</a>	Single Acting Push	10	5 - 15 [1/4 - 1/2]	15 [0.6]	M5 x 0.8 [10-32 UNF]	47.2 [10.6]	7.8 [1.8]	50 - 500 [2.0 - 19.7]	0.15 - 0.7 [21.8 - 101.5]	0 - 60 [32 - 140]
<a href="#">BSA / HBSA</a>	Single Acting Push	16	5 - 15 [1/4 - 1/2]	15 [0.6]	M5 x 0.8 [10-32 UNF]	119 [27]	21.6 [4.9]	50 - 500 [2.0 - 19.7]	0.15 - 0.7 [21.8 - 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

BDA / HBDA Series Multi Mount Cylinders

[Click Here for Access to Catalogs, CAD Drawings, Videos and More!](#)

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]
<a href="#">BSAL / HBSAL</a>	Single Acting Push Non-Rotating	6	5 - 15 [1/4 - 1/2]	15 [0.6]	M5 x 0.8 [10-32 UNF]	19.7 [4.4]	3.9 [0.9]	50 - 500 [20 - 19.7]	0.25 - 0.7 [36.3 - 101.5]	0 - 60 [32 - 140]
<a href="#">BSAL / HBSAL</a>	Single Acting Push Non-Rotating	10	5 - 15 [1/4 - 1/2]	15 [0.6]	M5 x 0.8 [10-32 UNF]	55 [12.4]	7.8 [1.8]	50 - 500 [20 - 19.7]	0.2 - 0.7 [29.0 - 101.5]	0 - 60 [32 - 140]
<a href="#">BSAL / HBSAL</a>	Single Acting Push Non-Rotating	16	5 - 15 [1/4 - 1/2]	15 [0.6]	M5 x 0.8 [10-32 UNF]	141 [32]	21.6 [4.9]	50 - 500 [20 - 19.7]	0.15 - 0.7 [21.8 - 101.5]	0 - 60 [32 - 140]