

## Standard cylinder (Standard type)

### Mini Bit Cylinder MBDA Series

- Total length: up to 41percent reduction.  
volume: up to 67percent reduction (compared with Koganei multi-mount cylinders).



Bore mm	Stroke mm	Port
4.5-10	4-20	M3x0.5

### Knock Cylinder NDA Series

- Short body and versatile installation result in a simplified mechanical device.
- Compact and lightweight insert type achieves remarkable space-saving effects.
- Central locator and wrench flats on the body allow solid and highly accurate installation.



Bore mm	Stroke mm	Port
6-16	5-30	M5x0.8

### Pen Cylinder PBDA Series

- Series ranges from 2.5mm to 16mm; conforming to the non-ion standard for all models.
- Wide variation of 15 models including made-to-order products.



Bore mm	Stroke mm	Port
2.5-16	5-200	M3;M5; with fitting

### Multi Mount Cylinder BDA Series

- Easy-to-handle miniature 4mm sensor switch can be installed.
- Non-rotating type is also available; which can respond to various needs with high non-rotating accuracy.
- Square & compact body and mounting brackets make various installations possible.



Bore mm	Stroke mm	Port
6-16	5-30	M5x0.8

### High Multi Cylinder YMDA Series

- Square body and six-surface mounting facilitates compact, direct mounting.
- Mounts a linear guide to save space and pursue non-rotating accuracy.
- Embedded sensor switch does not protrude from body..
- Use in embedded sensor mounting grooves on two surfaces of the body.



Bore mm	Stroke mm	Port
6-20	5-30	M5x0.8

### Jig Cylinder C Series CDA Type

- New variations of "Stroke-adjustable cylinder" and "Low-friction cylinder" are added to the Series in May, 2008.
- Short and compact body achieves total space saving.
- Responds to various needs with cylinder bores from 6mm to 100mm and versatile functions.
- A square rod with non-rotating function can provide a highly efficient design for mechanical devices.



Bore mm	Stroke mm	Port
6-100	5-300	M3;M5;Rc1/8; Rc1/4;Rc3/8

### Jig Cylinder JC Series JCDA Type

- Mounting conforms to the new standard JIS B 8368.
- Uses a rod packing with scraper in one piece for improved durability.
- Selection of Rod end type can be selected either female or male thread with five mounting types.



Bore mm	Stroke mm	Port
20-100	5-100	M5;Rc1/8; Rc1/4;Rc3/8