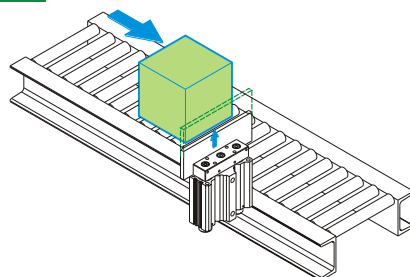




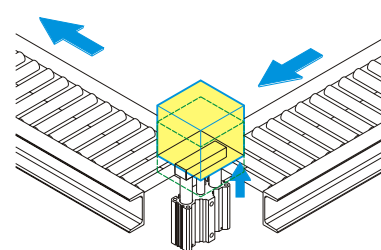
- Several uses:**
- S-Stopper cylinder: Takes very high lateral loadings as such can stop very wide and heavy objects.
 - L-Lift cylinder: Large bearing area enables heavy off-set loads to be applied.
 - P-Pusher cylinder: Long strokes available with extremely rigid guidance, precise movement of load is possible.

S Stopper cylinder



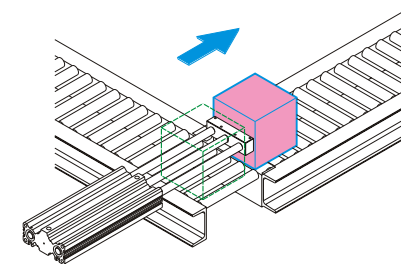
Tough type of stopping a large-load work carrier at a fixed point, and for the straggle of a number of work carriers, etc.

L Lift cylinder



Special design which stands the large one-sided load. Lifts the work carrier at a fixed point not changing the posture.

P Pusher cylinder



Long strokes available, the highly precise pushing work transfers and places a work carrier and changes the direction.

TWIN-GUIDE CYLINDER

MCGA series

Bore size : $\phi 20 \sim \phi 80$ (Double acting)

- Strong cylinder suitable for heavy load, for stopping work carriers of various sizes at a fixed position, and for stacking many work carriers, etc.
- The strong and thick guide rods sustain the unbalanced load.
- Designed for right-angled turn, positioning, and lifting on the conveyor line.



PUSH TYPE

MCGA-23 / 63 series

Bore size : $\phi 20 \sim \phi 80$ (Double acting)

- Long stroke type of the anti-turn Accuracy, improved by integrating the Guides and Cylinder.
- Linear Bush Bearing type available for high accuracy in the high speed work.
- On the Link Bar at the top, Many thread holes for mounting attachments are provided for easy mounting.
- Lift type of long stroke is available by replacing the Link Bar with table plate.
- Port thread BSP. NPT. are also available.



MCGB series

Bore size : $\phi 12 \sim \phi 32$ (Double acting)

- The long experience provided the following feature in pursuit of accuracy, durability and handiness.
- Connection from 2 direction and 3-type fixing (pierced hole bolt, back tapped hole, bottom tapped hole), and the miniature sensor switch recessed in the cylinder body.
- A special packing absorbs the shock sound at the end of the stroke.



MCGJ series

Bore size : $\phi 12 \sim \phi 100$ (Double acting)

- Make use of air to drive the push and pull of rod can achieve the effect of highly accurate operation.
- Bore sizes $\phi 12 \text{mm} \sim \phi 100 \text{mm}$ are available for various needs.
- 2 up to 6 reed switch with / without contact point type can be available as per actual need.
- Piston rod is made of wear-resistant stainless or carbon steel.



MCGS series

Bore size : $\phi 6 \sim \phi 63$ (Double acting)

- Multi-ports as standard enabling both direction mounting.
- Non-rotating accuracy $\pm 0.1^\circ$ ($\phi 6, \phi 10$)
- Embedding type sensors.
- The sensor cable will be in the same direction as the piping tube if vertical type sensor switch (Angle cable) is used.
- Magnetic as standard.



MGT* series

Bore size : $\phi 20 \sim \phi 63$ (Double acting)

- MGTK(X): Light duty type, MGTB(U): Heavy duty type.
- The guiding units can be assembled to cylinders in conformity ISO 6431/6432 standard.
- Antirotation is guaranteed by two steel guide stems, which moment is support by four oilless bush in MGTK(X) series by four linear bearing in MGTU series and four brass bush in MGTB series.
- Easy to install, also reducing machine design work and cost.



MCGD series

Bore size : $\phi 12 \sim \phi 32$ (Double acting)

- The user may use as plate slide type or body slide type according to his requirement.
- The air cylinder and the guide are designed as compact makes the air cylinder working more smoothly and showing the characteristics of its high-strength and high-stiffness.
- The recessed groove for sensor switch keeps space saving and interference is avoided.
- The body and plate are reserved many holes and threads for mounting. It is suitable for various mounting requirement.

