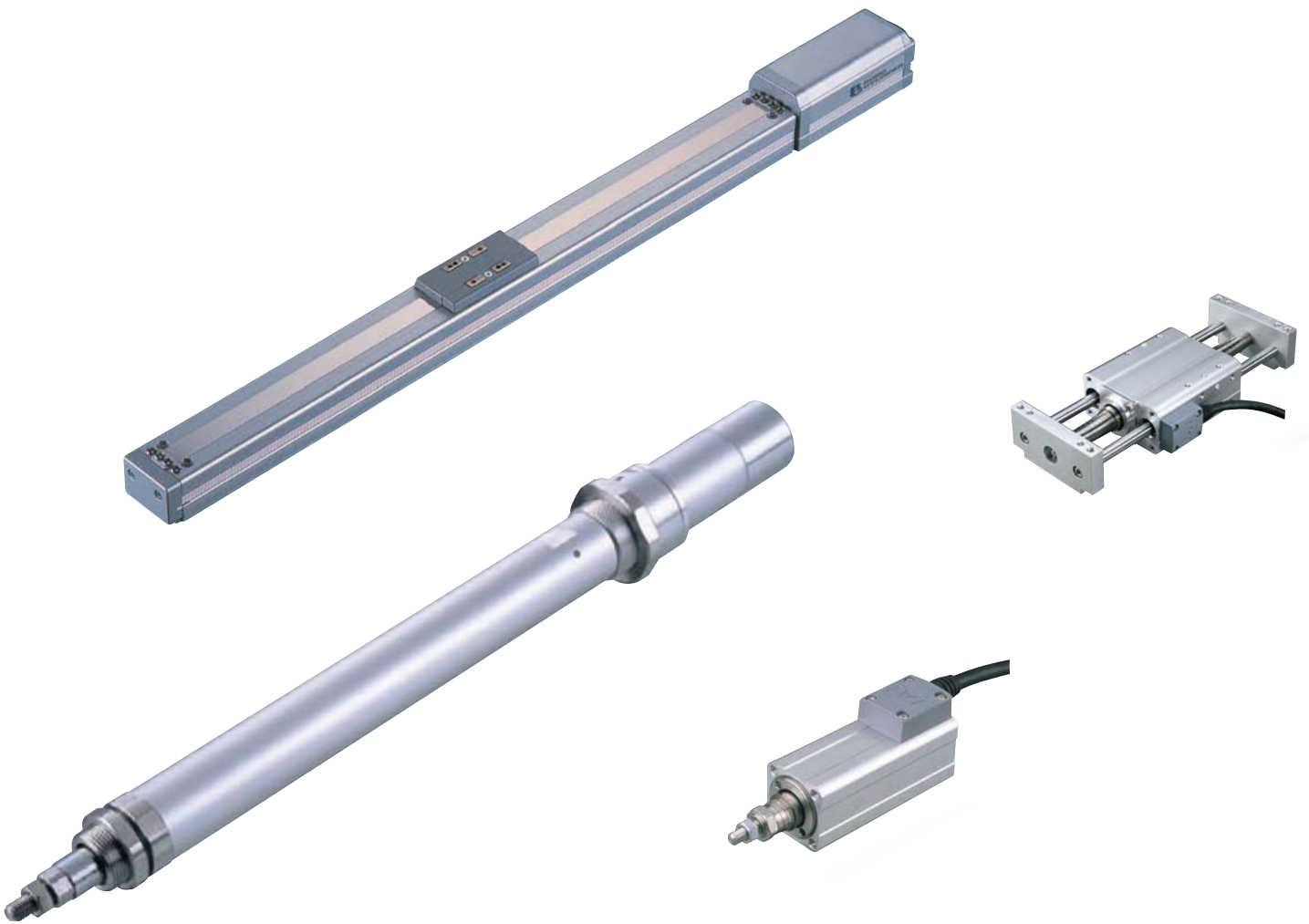
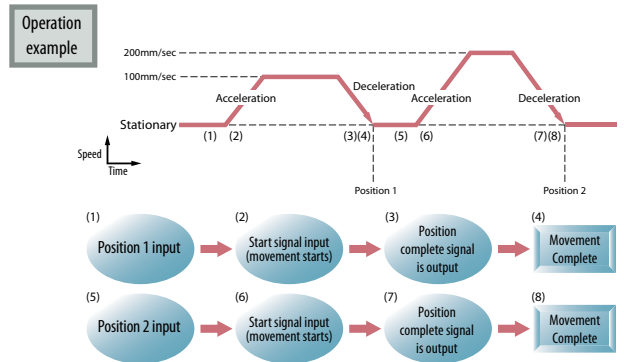
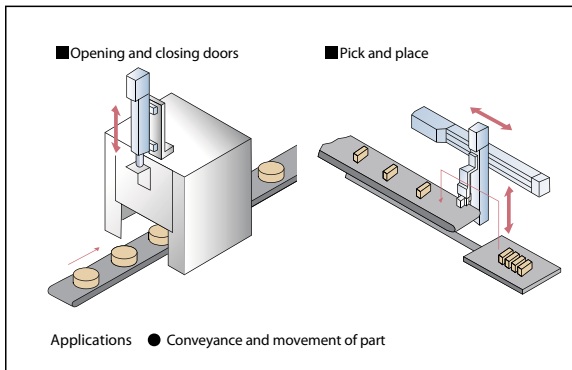


# The **7 Benefits** of ROBO Cylinder



# The 7 Benefits of ROBO Cylinder

**1 Multiple Positioning** – With the ROBO Cylinder, you can achieve positioning of up to 1,500 points and a repeatability of  $\pm 0.02\text{mm}$ .  
**Benefit** - Use one assembly line to produce a variety of products and achieve higher quality production with a repeatability of  $\pm 0.02\text{mm}$ .



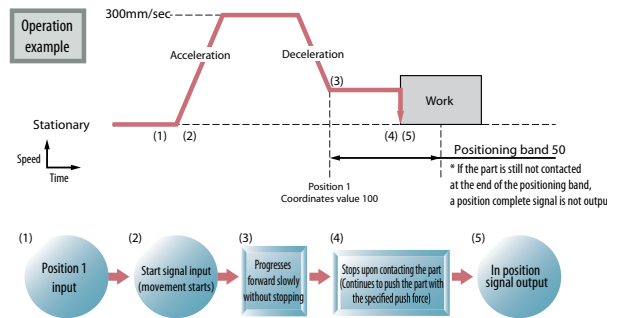
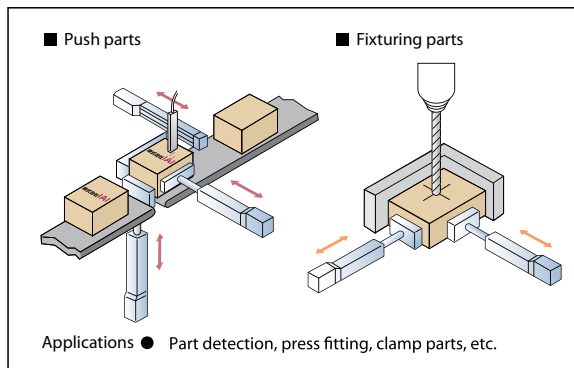
**Position Data Table**

(Set on a teaching pendant or using PC software)

| No. | Position (mm) | Speed (mm/sec) | Acceleration (G) | Deceleration (G) | Push (%) | Positioning band (mm) |
|-----|---------------|----------------|------------------|------------------|----------|-----------------------|
| 1   | 100           | 100            | 0.3              | 0.3              | 0        | 10                    |
| 2   | 200           | 200            | 0.3              | 0.3              | 0        | 20                    |

**2 Push and Hold** – The push force (pressing force) can be easily adjusted by changing the position data values. The push force can also be set to constant. This function is perfectly suited for press fit applications and parts holding.

**Benefit** - Push and hold hard/soft materials equally well without damaging your product. Great for press fit and clamping applications.



**Position Data Table**

(Set on a teaching pendant or using PC software)

| No. | Position (mm) | Speed (mm/sec) | Acceleration (G) | Deceleration (G) | Push (%) | Positioning band (mm) |
|-----|---------------|----------------|------------------|------------------|----------|-----------------------|
| 1   | 100           | 300            | 0.3              | 0.3              | 50       | 50                    |



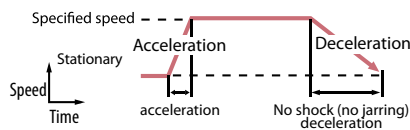
Push force precision when stopped is not guaranteed. This is merely a rough estimate. Caution: If the push force is even slightly excessive, pressing errors may occur due to sliding resistance etc.

# 3

## Acceleration/Deceleration Settings –

Set the acceleration and deceleration independently on the ROBO Cylinder.

**Benefit** - Improve cycle time and drastically reduce part defects. Produce more in less time.



Position data table

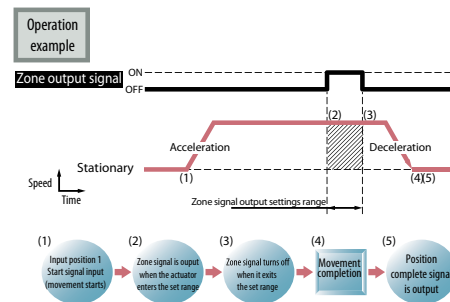
(Set on a teaching pendant or using PC software)

| No. | Position (mm) | Speed (mm/sec) | Acceleration (G) | Deceleration (G) | Push (%) | Positioning band (mm) |
|-----|---------------|----------------|------------------|------------------|----------|-----------------------|
| 1   | 300           | 100            | 0.3              | 0.01             | 0        | 0.1                   |
| 2   |               |                | 0.3              | 0.01             | 0        | 0.1                   |

# 4

**Zone Output** – Output a signal when the ROBO Cylinder reaches a preset range, all without a need for external sensors. The zone output function allows the ROBO Cylinder to shorten cycle time, output a danger area signal and can be used for a variety of applications.

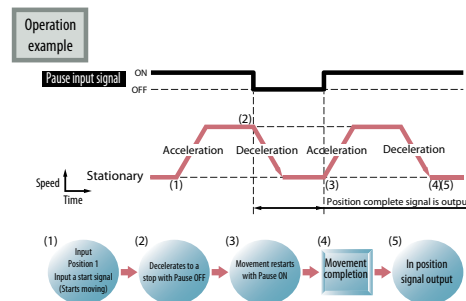
**Benefit** - Save yourself time, money and effort of adding external cumbersome sensors.



# 5

**Pause Input** – Unlike pneumatic systems, ROBO Cylinders are capable of stopping at any point of the stroke during operation.

**Benefit** - This allows for collision prevention and greater safety for operators and equipment.

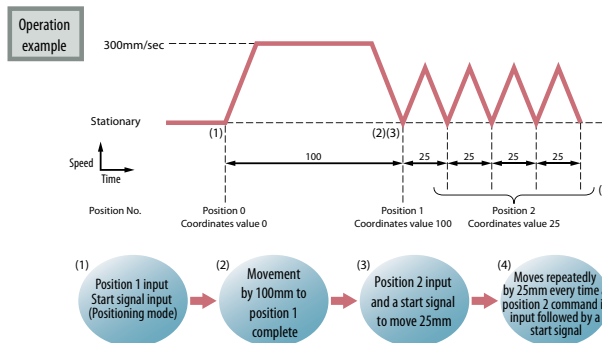


# 6

## Incremental/Decremental Moves –

When performing continuous movement with uniform pitch, repetitive movement is possible with data of a single position.

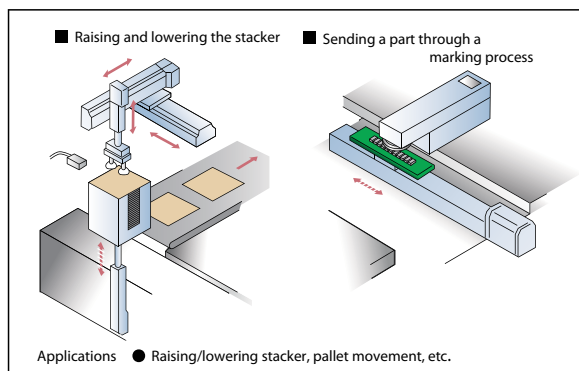
**Benefit** - This function can speed up programming and reduce I/O count.



Position Data Table

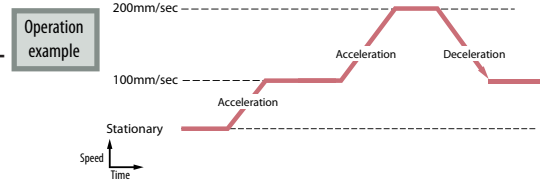
(Set on a teaching pendant or using PC software)

| No. | Position (mm) | Speed (mm/sec) | Acceleration (G) | Deceleration (G) | Push (%) | Positioning band (mm) |
|-----|---------------|----------------|------------------|------------------|----------|-----------------------|
| 1   | 100           | 300            | 0.3              | 0.3              | 0        | 0.1                   |
| 2   | 25            | 300            | 0.3              | 0.3              | 0        | 0.1                   |



**7 Speed Change During Movement –**  
Speed can be changed easily during movement. Easily set a position band and change your speed during movement.

**Benefit -** Improve cycle time and minimize product defects, resulting in higher quality production and ROI.



**Energy Efficient –** ROBO Cylinders are highly energy efficient and will cut running costs, giving you substantial ROI. Functions such as Full Servo Control Mode, and Automatic Servo Off Mode, further improves energy efficiency making ROBO Cylinder the choice for discerning automation engineers all over the world.

**Longer Life = Greater ROI -** In addition to less product defects, operator safety, shorter cycle times, energy efficiency and higher quality production, ROBO Cylinder electric actuators last 10 times longer than similar air cylinders.

**Quiet Operation -** Are you tired of the ear-splitting noise generated by pneumatic systems? ROBO Cylinder electric actuators offer quiet operation without the need for mufflers.

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