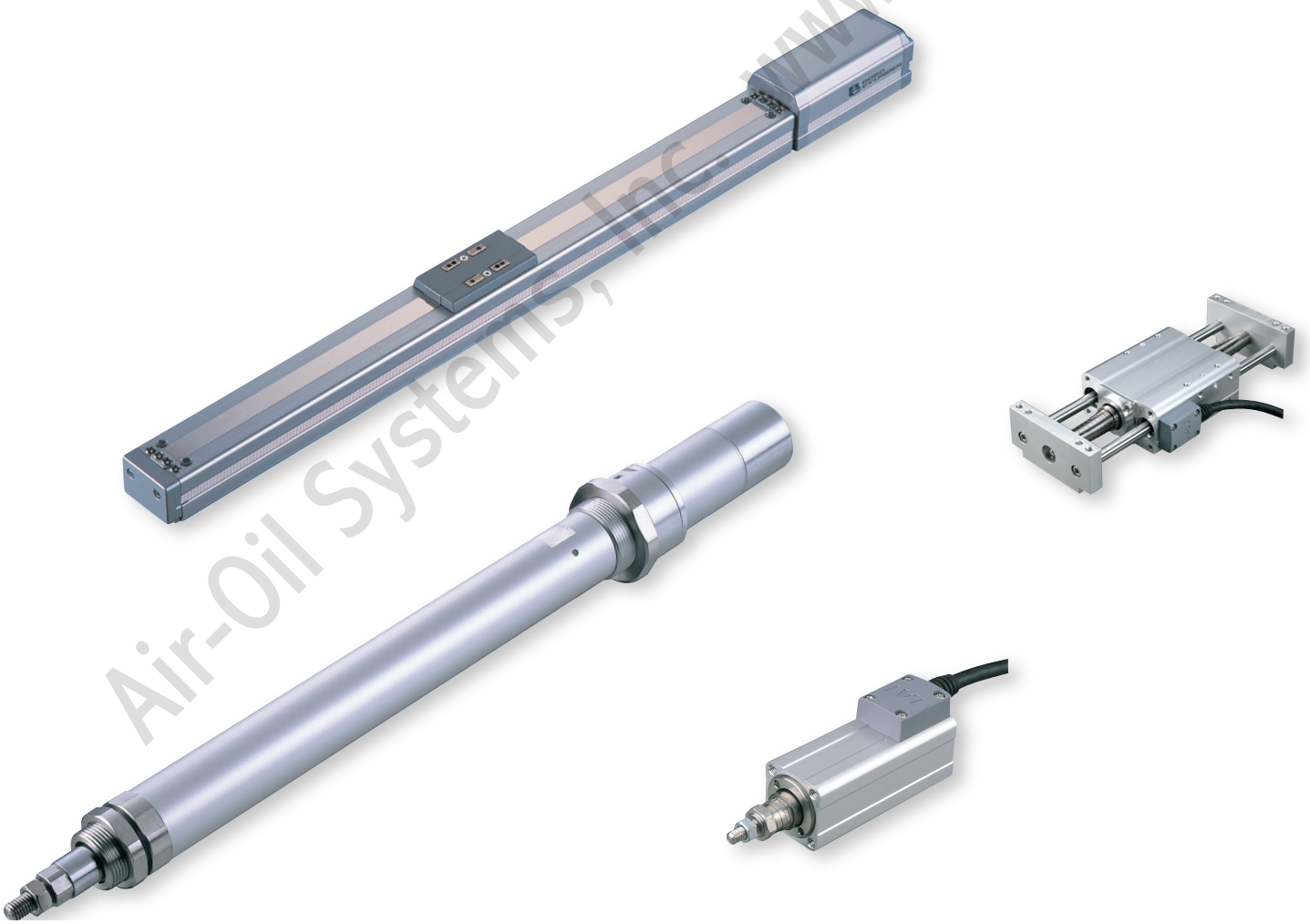
ROBO CYLINDER

The **7 Benefits** of ROBO Cylinder



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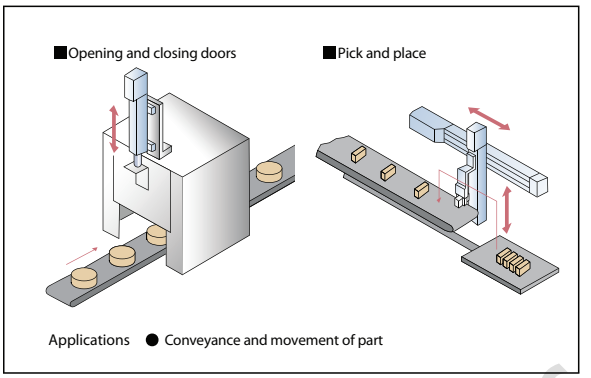
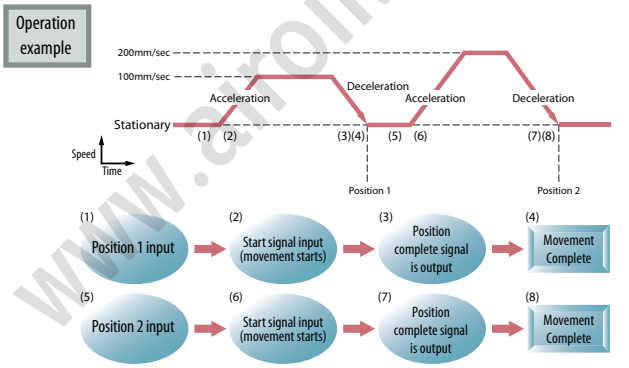
The **7 Benefits** of ROBO Cylinder

1

Multiple Positioning – With the ROBO Cylinder, you can achieve positioning of up to 1,500 points and a repeatability of +/- 0.02mm. Use one assembly line to produce a variety of products.





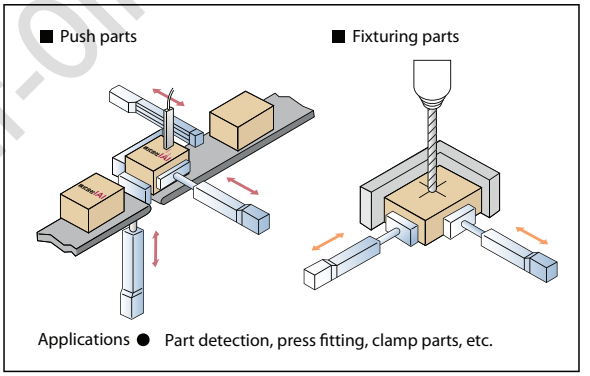
Position Data Table

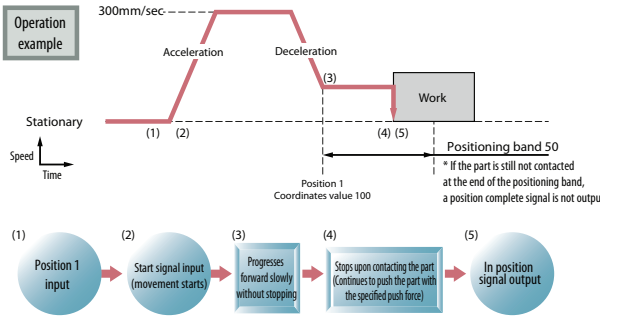
(Set on a teaching pendant or using PC software)

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 be set to be constant. This function is perfectly suited for holding parts and press fitting. Easy adjustment of force equals higher quality production.





Position Data Table

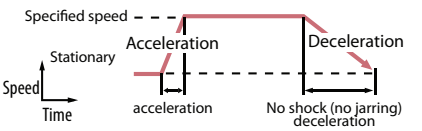
(Set on a teaching pendant or using PC software)

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

Caution 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. This helps improve cycle time and drastically reduce part damage.



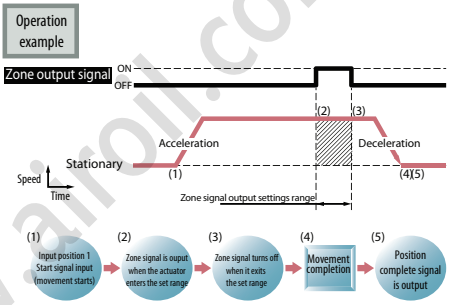
Position data table

(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

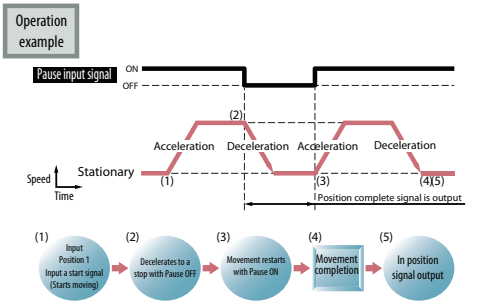
4

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



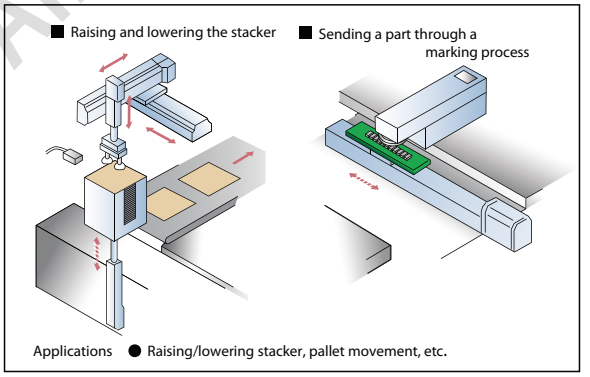
5

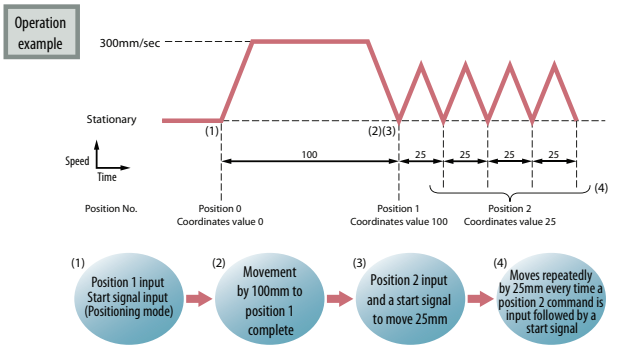
Pause Input – Unlike pneumatic systems, ROBO Cylinders are capable of stopping at any point of the stroke during operation. This allows for collision prevention and greater safety for operators and equipment.



6

Incremental/Decremental Moves – When performing continuous movement with uniform pitch, repetitive movement is possible with data of a single position. Using this function can speed up programming and reduce I/O count.



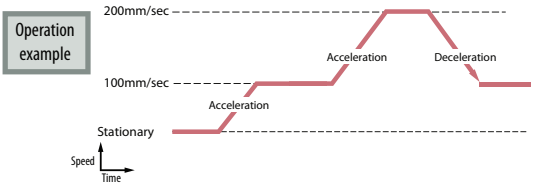


Position Data Table

(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. Set a position band and change your speed during movement to improve cycle time and minimize part defects.



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.

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Free Technical Support – IAI America has 3 main offices in the US separate time zones to accommodate your schedule. Call to speak with highly experienced technical support engineers at your convenience.

Established in 1976, IAI has grown globally to serve over 12 countries. IAI has 24 regional offices in Japan and is proud to announce a newly constructed headquarters, with an adjacent state of the art manufacturing facility to produce the highest quality automation robots. When you demand innovative and high quality robots, excellent service and support for your unique needs, demand IAI!

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