

# ELECYLINDER achieves DX\* of the production line !

\* DX = digital transformation: To transform and improve the business model by digital technologies.

**Cycle time  
display  
function**

Cycle time	
	Time (S)
Forward (F)	0.8
Backward (B)	1.2



## Advantages of the accurate travel time

### Air cylinder's velocity



Transfer time cannot be accurately shown because the speed controller is analog. In addition, the cycle time changes largely depending on the operating environment, season, temperature and aged deterioration of packings.

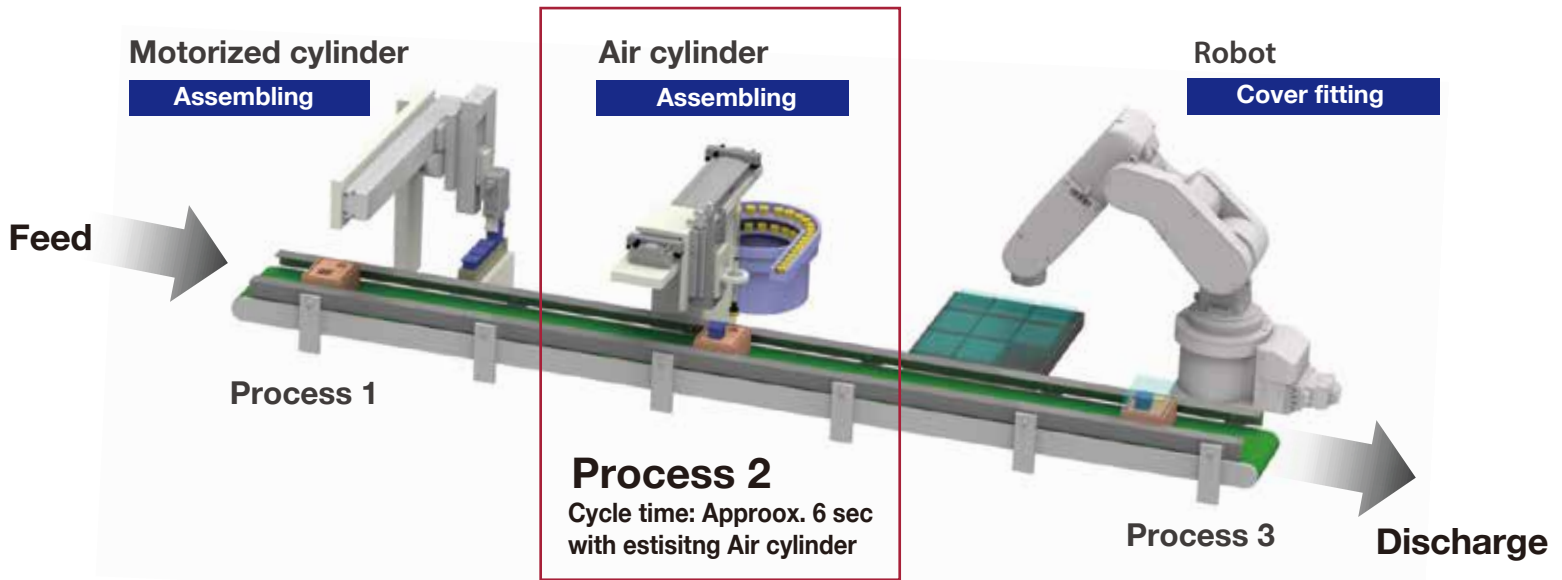
### ELECYLINDER's velocity

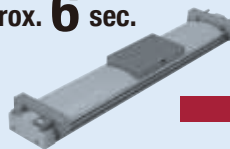

Easy setting	
Level	Velocity (M)
Forward (F)	10
Backward (B)	8

Accurate travel times can be shown thanks to digital setting (velocity is selected numerically). Once it is set, it always operates at the same cycle time.

# Amazingly profitable!

If the **ELECYLINDER** is used, it eliminate the bottleneck in the production line.



Comparison of Cycle times of Process 2		
	Air Cylinder	ELECYLINDER
Cycle time of process 300mm travel (one way)	Approx. <b>1.5</b> sec.	<b>1</b> sec.
Total cycle time of process 2	Approx. <b>6</b> sec. 	<b>5</b> sec. 

Note: Based on IAI research.

When the cycle time is shortened by **20%**,  
the production time for 1,000 units will be shortened from 12 hrs. to 10 hrs.

## Annual cost saving effect

**\$23/hr. x 2 hrs. x 250 days = \$11,500**

\*Exchange Rate:1(USD)=100(Japanese Yen)

### IAI America, Inc.

USA Headquarter & Western Region (Los Angeles): 2690 W. 237th Street, Torrance, CA 90505 (800) 736-1712  
 Midwest Branch Office (Chicago) : 110 E. State Pkwy, Schaumburg, IL 60173 (800) 944-0333  
 Southeast Branch Office (Atlanta): 1220 Kennestone Circle, Suite 108, Marietta, GA 30066 (888) 354-9470  
[www.intelligentactuator.com](http://www.intelligentactuator.com)

JAPAN Headquarters: 577-1 Obane, Shimizu-ku, Shizuoka-shi, Shizuoka, 424-0103, JAPAN  
 The information contained in this product brochure may change without prior notice due to product improvements.

### IAI Industrieroboter GmbH

Ober der Röth 4, D-65824 Schwalbach am Taunus, Germany

### IAI (Shanghai) Co., Ltd.

Shanghai Jiahua Business Center A8-303, 808, Hongqiao Rd., Shanghai 200030, China

### IAI Robot (Thailand) Co., Ltd.

825 Phairojkiija Tower 7th Floor, Debaratana Rd., Bangna, Nuea, Bangna, Bangkok 10260, Thailand