

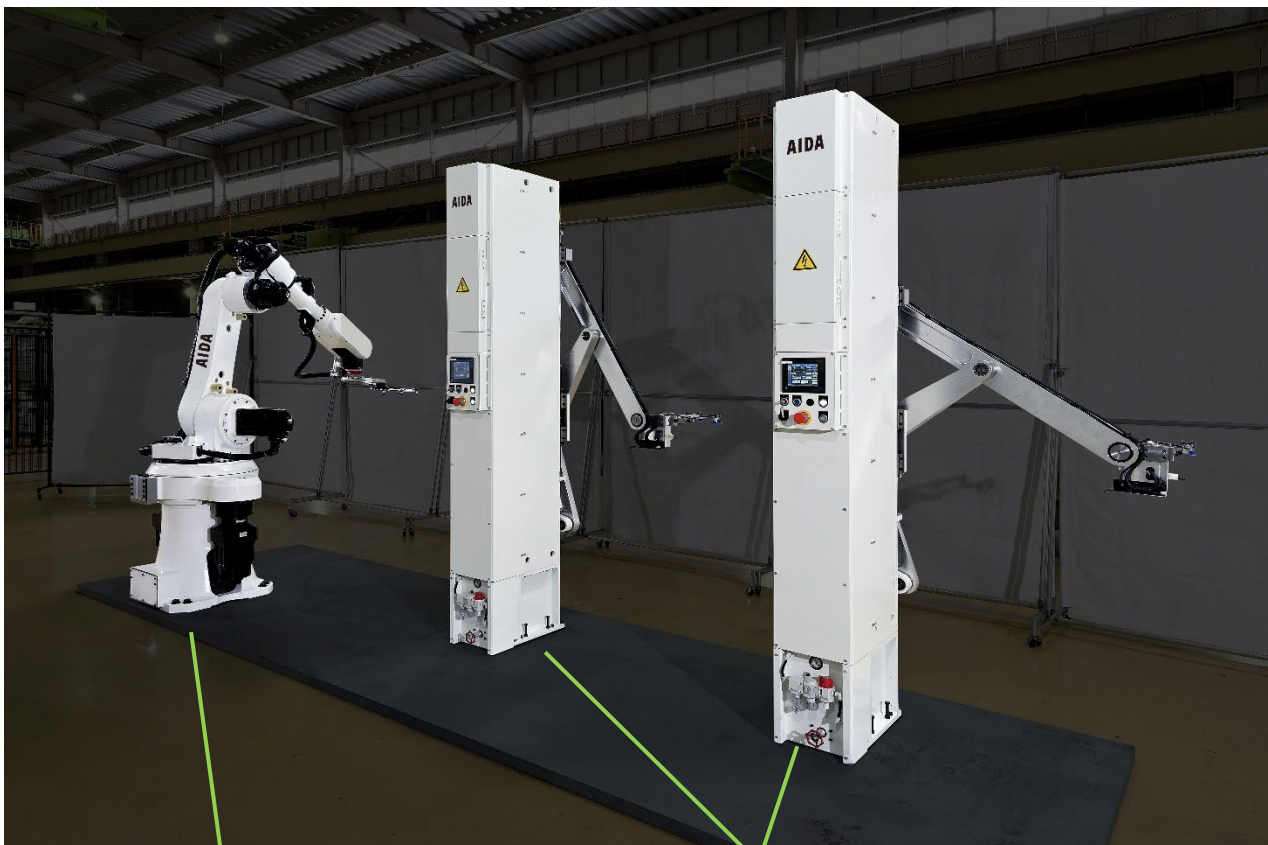


Notification of Product Launches of Press Transfers: The SAT-M High-Speed Transfer Robot and the ARB High-Speed Articulated Robot

AIDA ENGINEERING, LTD. (Representative Director and President: Toshihiko Suzuki; hereafter referred to as 'AIDA') is pleased to announce the product launch of the 'SAT-M High-Speed Transfer Robot' and the 'ARB High-Speed Articulated Robot,' which are designed to maximize the productivity of general-purpose press lines.

Both products incorporate newly developed drive mechanisms and synchronization control systems to achieve high-speed transfer capabilities that enable high-precision synchronization with C-frame presses. These robots have achieved a line takt time of 30 min^{-1} for direct press-to-press conveyance (transfer pitch: 1800 mm).

These cutting-edge forming line recommendations will enable our customers to achieve even further labor savings and manufacturing sophistication, and will contribute to resolving the challenges they are facing.



**ARB-M1 High-Speed
Articulated Joint Robot**

**SAT-M High-Speed Transfer
Robots**

Note: We are planning to exhibit these machines in May 2026 at the “Japan Metal Stamping Technology Exhibition 2026 <Nagoya>.”

SAT-M High-Speed Transfer Robots

■ Product Features

1) High-Speed Transfers With a Streamlined Design

A Scott-Russell linkage mechanism (for feeding) and a crank-link mechanism (for lifting) are used to achieve stable, high-speed conveyance. Featuring a simple drive mechanism based on the proven technology of the large AIDA SAT transfers used in automotive body panel forming lines, this system ensures stable conveyance even at high speeds.

2) Direct Transfer Between Presses

Enables a line configuration that doesn't require nesting stages. This translates into shorter conveyance distances that boost speed and save space.

3) High Flexibility That Accommodates a Wide Range of Bolster Heights

Since these transfers can be used to convey products between presses with different bolster heights, they can also be utilized to automate existing presses.

4) A Slim, Space-Saving Design

The slim structure ensures ample working space, allowing easy access to the dies from the front of the press.

5) Offline Simulation Software (Option)

Offline simulation software allows customers to pre-configure the transfer motions for each robot and set the phase differential settings between the presses and transfers. Verifying the press and transfer motions in advance to achieve optimal production speeds helps reduce line startup man-hours and enable smooth production starts.

■ Product Overview

M-SAT High-Speed Transfer Robot for General-Purpose Press Lines	
No. of Motion Axes	2
Max. Conveyance Weight	8 kg
Lift Stroke	300 mm (Max.)
Transfer Pitch	1800 mm
Robot Takt Time	~33 min ⁻¹
Tandem Line Takt Time	~30 min ⁻¹
Mounting Method	Floor-mounted

Product Launch: April 2026

ARB High-Speed Articulated Joint Robots

■ Product Features

1) Articulated Robots Optimized for Press Forming Lines

The mechanisms and controls were designed in-house to optimize these robots for use in press forming lines. Equipped with a proprietary drive mechanism designed for high-speed operation, these robots enable high-speed and high-precision synchronized controls with the presses in the forming line.

2) Direct Transfer Between Presses

Enables a line configuration that doesn't require nesting stages. This translates into shorter conveyance distances that boost speed and save space. In addition, the 6-axis articulated robot allows for free control of the workpiece orientation, enabling it to handle a wide variety of workpiece shapes and complex conveyance operations.

3) High Flexibility That Accommodates a Wide Range of Bolster Heights

Since these transfers can be used to convey products between presses with different bolster heights, they can also be utilized to automate existing presses.

4) Multiple Mounting Methods

In addition to mounting these robots in front of the presses, it is also possible to suspend the robots from the ceiling. The installation method can be selected based on factory layout conditions. In the case of ceiling-mounted robots, the robot arms can be retracted upward to secure ample space in front of the press, thereby contributing to improved die adjustments and die changes and to overall ease of maintenance.

5) Offline Simulation Software (Option)

Offline simulation software allows customers to pre-configure the transfer motions for each robot and set the phase differential settings between the presses and transfers. Verifying the motions of the presses and transfers in advance to ensure optimal production speeds helps shorten the onsite commissioning time and facilitates a smooth start of production.

■ Product Overview

ARB-M1 High-Speed Articulated Robot for General-Purpose Press Lines	
No. of Motion Axes	6
Max. Conveyance Weight	50 kg
	15 kg (When Used in a C-Frame Press Line)
Transfer Pitch	1800 mm
Robot Takt Time	~33 min ⁻¹
Tandem Line Takt Time	~30 min ⁻¹
Mounting Method	Floor-Mounted or Ceiling-Mounted

Note: A large ARB-L1 robot is also available.

Product Launch: April 2026

※Inquiries Relating to This Subject

Sales HQ, AIDA ENGINEERING, LTD. (Contact: Nakazawa)

TEL: 042-772-5271; Email: ae-sales@aida.co.jp

Please note that this information is subject to change without notice.