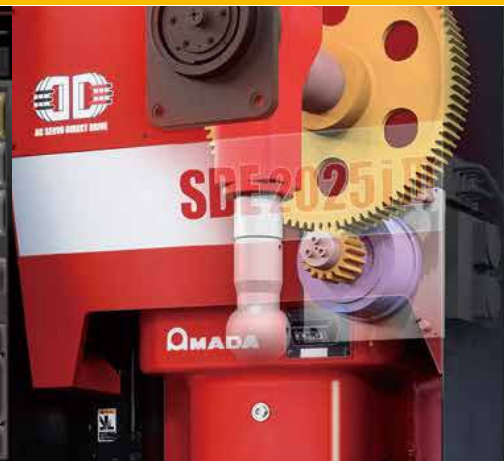


AMADA PRESS SYSTEM CO., LTD. LINEUP FOR STAMPING PRESS MACHINES



General Catalog

STAMPING PRESS SYSTEMS



From high accuracy to ultra-high accuracy

In 1965, AMADA developed the TP Series of stamping press machines with the basic aim of reliable safety. The TP Series took the forefront of stamping press machines. For the first time, a stamping press utilizes a wet clutch-brake combination in the transmission mechanism, proving its effectiveness in consistent operation. Based on the highly trusted TP Series, AMADA's subsequent stamping presses evolved into a variety of series as all-encompassing systems of hardware, software, peripheral equipment, and service to meet the varied needs of its customers.

AMADA's stamping presses improve productivity and reduce total cost by reducing die setup time, improving material yield, promoting process rationalization through automation and configuration of production lines, and streamlining production management. Our stamping presses are constantly evolving, from high accuracy to ultra-high accuracy, such as the development of the low noise link motion press and the Digital AC Servo Press, which has greatly expanded the possibilities of press production.



History of Progress -- AMADA Stamping Press Machines

1965	Launched first TP machine	2007	Launched 2-point digital AC servo press SDEW Series
1973	Launched TPW Series	2014	Launched ECO function equipped TP-FX, TPL-FX, TPW-FX, TPWL-FX Series
1979	Launched TP-B Series	2015	Launched digital AC servo press SWE-4025
1981	Launched TP-C Series	2016	Launched high-rigidity digital AC servo press SDE Series GORIKI
1982	Launched TPW-B Series	2020	Launched i3 control equipped digital AC servo press SDE-i3, SDEW-i3, SDE-i3 GORIKI Series
1987	Launched TPW-C Series	2021	Launched 2-point digital AC servo press SWE-i3, SDEW-i3 GORIKI , automation system for progressive stamping press production ALFAS
1990	Launched industry first C-frame link press in TPL Series	2022	Launched high-speed line system with articulated robots and servo-drive stamping presses ARPAS
1995	Launched silent link press TPL-Si Series		
1996	Launched 2-point link press TPWL Series		
1997	Launched TP-EX Series		
2003	Launched digital AC servo press SDE Series		

Our Network



Assembly plant in Fujinomiya Works, Japan



Second plant in Suzukawa Works, Japan



Assembly plant in Guangdong, China



AMADA Global Innovation Center, Japan



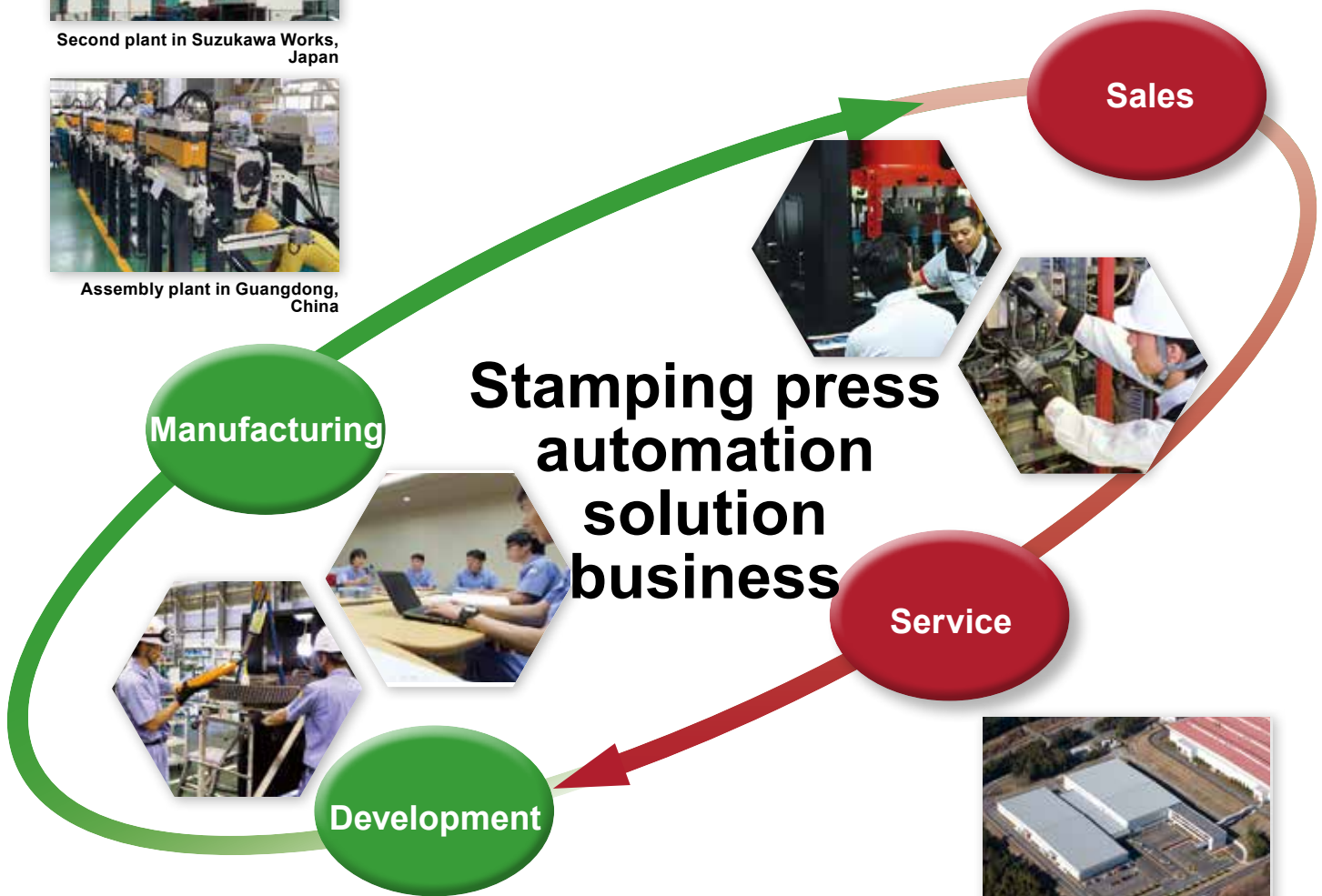
Kansai Technical Center, Japan



Overseas base in Thailand



Overseas base in U.S.A.



AMADA Innovation Center in Fujinomiya Works, Japan



Suzukawa Works, Japan



AMADA Parts Center, where integrated supply base, Japan



Service car

Stamping press automation solution

AMADA PRESS SYSTEM has a line of stamping press machines and peripheral equipment to meet specific needs of customers.

You can select the correct machines and peripheral equipment that best suits your application in terms of lead time, cost, and other factors.

1-point



Digital AC Servo Press



Link press



SDE iIII SERIES
88 ~ 330 tn **P7**



SDE iIII GORIKI SERIES
165 ~ 330 tn **P8**



TPL FX SERIES
50 ~ 330 tn **P10**



2-point



SDEW iIII SERIES
220 & 330 tn **P7**



SDEW iIII GORIKI SERIES
88 & 176 tn **P8**



SWE iIII SERIES
440 & 660 tn **P9**



TPWL FX SERIES
121 ~ 551 tn **P10**

High-Speed Line System with Articulated Robots and Servo-Drive Stamping Presses

P13▶

ARPAS
AMADA Robot Press Automation System



Straightener-Feeders

P14▶



High-Speed Tandem Press Line System

P13▶



SDE-8018i3 & RHQ-120

Software

P15▶



- V-factory** IoT Solution of AMADA Group
Visualization of operation/production information
- APINES** Visualization software of press shop
- WANMS** Pressure waveform analysis software
- SMAPS** Motion creation and editing software

Crank press



Automation system for progressive stamping press production

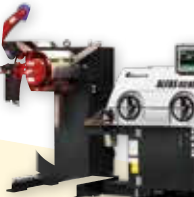


TP FX SERIES
17 ~ 275 tn

P11▶



ALFAS
AMADA Leveler Feeder Automation System



SDE-1515i3 & ALFAS-03KR
88 ~ 330 tn

P13▶



TPW FX SERIES
121 ~ 330 tn

P11▶

ALFAS
AMADA Leveler Feeder Automation System



SDEW-8010i3 & ALFAS-03ARZ
88 & 176 tn

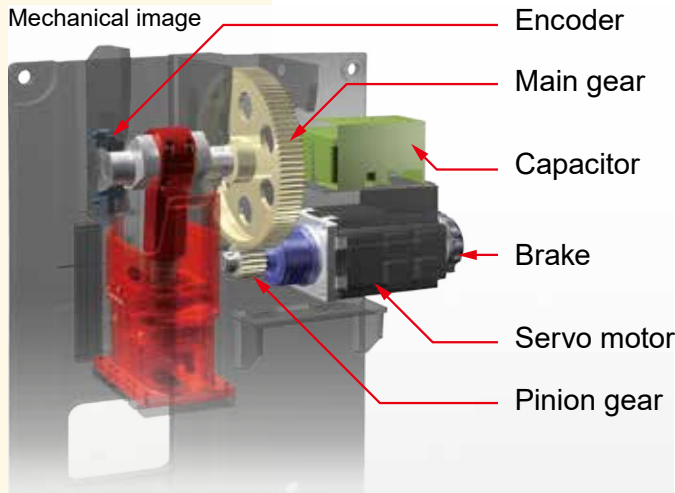
P13▶



Digital AC Servo Press

Designed for value-added forming and improved productivity

The Digital Servo Direct Drive (DSDD), a fusion of an i3-controlled servo stamping press and a performance-proven crank mechanism, provides optimum speed and position control, and opens a world of unprecedented high productivity and high value-added forming.



Sample motion screen



12 types* of motion that enable high value-added forming and productivity improvement

*Some models have optional motions. (As additional options: 15 motions)

"MF Eco machines" with environmental consideration

AMADA's servo press machines are the first MF Eco machine-certified.

AMADA's servo press machines were certified by the Japan Forming Machinery Association as MF Eco machines, or environmentally conscious

products, which contribute to environmental impact reduction and working environment improvement.

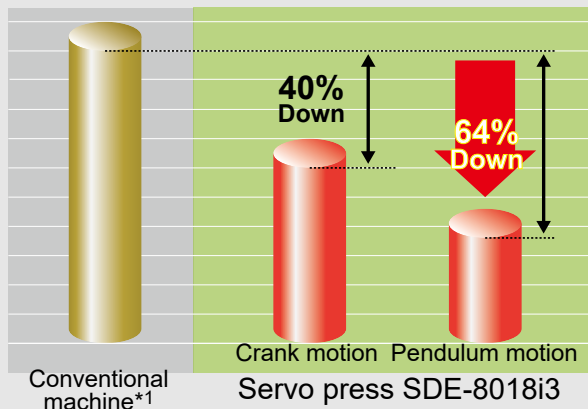


1 Power conservation: Sharp reduction of power consumption

The power load-leveling, energy-saving circuit of the servo presses sharply reduced their power consumption as compared with conventional

machines. The ECO monitor screen allows for the visualization of power consumption.

Power consumption



ECO monitor screen



2 Resource conservation: Reduction of lubricating oil consumption

Lubricant consumption is reduced by 67%*2 compared to conventional machines*1 by abolishing oil pans and adopting a circulating oil lubrication system. *2 Compared with SDEW-3025i3

3 Working environment: Significant reduction of stamping noise

Optimum slide motions help to cut the high decibel range of stamping noise. This reduces noise generation and improves the working environment.

*1 Mechanical stamping press machine of the same class

SDEiIII SERIES

1-point / 88 ~ 330 tn

High value-added forming from prototype to mass production

This stamping press machine with servo motor achieves improvement of forming, accuracy and economy by selecting the optimum motion according to the product from 12 types of motions, such as crank, link, soft, program, pendulum, high-speed pendulum, coining, repetition, pulse 1, pulse 2, pulse 1 pendulum, pulse 2 pendulum.



SDE-2025i3

Machine name	SDE-8018i3	SDE-1120i3	SDE-1522i3	SDE-2025i3	SDE-3030i3
Frame type	C / SF	C / SF	C / SF	C / SF	SF
Capacity	tn	88	121	165	220
Strokes per minute	min ⁻¹	~ 80	~ 70	~ 60	~ 55
Stroke length	inch	7.087	7.874	8.858	9.843
Die height	inch	13.78	15.354	16.929	18.11
					21.654

SDEWiIII SERIES

2-point / 220 & 330 tn

High value-added forming and improved productivity

1. The development of a digital servo direct drive that performs precise processing motion control and a high-rigidity integrated straight side frame maximizes stamping at two points.
2. We are able to achieve even high precision and productivity in processing with excellent repeatability by making full use of crank, link, soft, program, pendulum, high-speed pendulum, coining, and repetitive motions.



SDEW-2025i3

Machine name	SDEW-2025i3	SDEW-3025i3
Frame type	SF	SF
Capacity	tn	220
Strokes per minute	min ⁻¹	~ 50
Stroke length	inch	9.843
Die height	inch	19.685
		21.654



Digital AC Servo Press

SDE i III GORIKI SERIES

1-point / 165 ~ 330 tn

High-speed, high-precision processing and improved productivity

"GORIKI" is a high-rigidity stamping press machine which, as the Japanese name suggests, means "powerful (RIKI) servo press machines with enhanced rigidity (GO)."

A new solid-column frame structure was adopted with a chevron-shaped structure on the upper part of the front frame and reduced cutout in the bed front plate. The GORIKI's full-guided center-gib slide structure with additional side ribs outperforms the lateral rigidity when compared with conventional models. The improved eccentric load resistance characteristics sustain stable stamping accuracy.



SDE-1515i3

Machine name		SDE-1515i3	SDE-2017i3	SDE-3020i3
Frame type		SF (GORIKI)	SF (GORIKI)	SF (GORIKI)
Capacity	tn	165	220	330
Strokes per minute	min ⁻¹	~ 95	~ 75	~ 60
Stroke length	inch	5.906	6.89	7.874
Die height	inch	14.961	16.339	18.11

SDEW i III GORIKI SERIES

2-point / 88 & 176 tn

High-speed, high-precision processing and improved productivity

The high-rigidity GORIKI Series, equipped with "i3" control, is now available in a double crank mechanism that has 8-sided slide gibbing. The high eccentric load resistance in the left, right, front and back is ideal for manufacturing electrical components such as busbars, which often have asymmetrical shapes.



SDEW-8010i3

Machine name		SDEW-8010i3	SDEW-1613i3
Frame type		SF (GORIKI)	SF (GORIKI)
Capacity	tn	88	176
Strokes per minute	min ⁻¹	~ 130	~ 80
Stroke length	inch	3.937	5.118
Die height	inch	12.598	15.748

SWEiIII SERIES

2-point / 440 & 660 tn

High value-added forming and improved productivity

In addition to the high-rigidity straight-side integrated frame and the 8-sided gib guide system on the slide, the unique multiple servo motor design ensures repeatable for high-precision manufacturing. The double crank and cross shaft structure suppresses slide deflection, leading to improved product accuracy. In addition, the newly developed tie-rod side insertion method has reduced the required installation height at the factory by approximately 30%.



SWE-6040i3

Machine name		SWE-4025i3	SWE-6040i3
Frame type		SF	SF
Capacity	tn	440	660
Strokes per minute	min ⁻¹	~ 45	~ 40
Stroke length	inch	9.843	15.748
Die height	inch	23.622	23.622





Link Press

TPL FX SERIES

1-point / 50 ~ 330 tn

Achieves high-precision and high productivity

1. Unprecedented high accuracy, high productivity, and deep drawability are achieved with a link mechanism.
2. Eco-functions reduce power consumption.
3. Operability improvement and machine data management have also been achieved.



TPL-80FX



TPL-200FX (SF)

Machine name	TPL-45FX	TPL-60FX	TPL-80FX	TPL-110FX	TPL-150FX	TPL-200FX
Frame type	C	C	C	C / SF	C / SF	C / SF
Capacity tn	50	66	88	121	165	220
Strokes per minute P / D min ⁻¹	100 ~ 180 / 55 ~ 90	85 ~ 150 / 40 ~ 75	80 ~ 130 / 40 ~ 70	50 ~ 100 / 30 ~ 60	40 ~ 80 / 25 ~ 45	35 ~ 70 / 25 ~ 45
Stroke length P / D inch	2.756 / 5.512	3.543 / 6.299	3.937 / 7.087	4.921 / 7.874	5.906 / 9.843	6.89 / 11.811
Die height P / D inch	10.039 / 11.417	11.417 / 13.189	12.598 / 13.78	13.78 / 15.354	14.961 / 16.535	16.339 / 18.11

"P" is for progressive processing, "D" is for drawing processing.

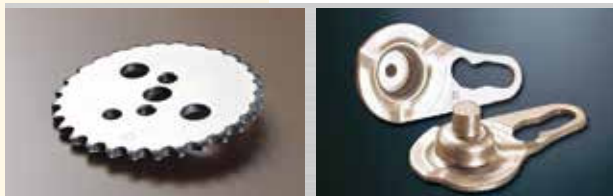
The 330 tn type is a special specification.

TPWL FX SERIES

2-point / 121 ~ 551 tn

Achieves high precision and reduced production noise

1. A link mechanism is installed as standard on the C frame and 2 points.
2. There are also bridge specifications (BI, BO, BN, and SF types) that limit gap opening in pursuit of high stamping accuracy.
3. Eco-functions reduce power consumption.



TPWL-250FX (BO)



TPWL-300FX (SF)

Machine name	TPWL-110FX	TPWL-150FX	TPWL-200FX	TPWL-250FX	TPWL-300FX
Frame type	C / BI	C / BI	C / BI / BO / SF	C / BI / BO / BN	BI / BO / BN / SF
Capacity tn	121	165	220	275	330
Strokes per minute G / P min ⁻¹	35 ~ 65 / 40 ~ 80	30 ~ 55 / 40 ~ 75	25 ~ 45 / 40 ~ 65	20 ~ 40 / 30 ~ 60	20 ~ 40 / 30 ~ 55
Stroke length G / P inch	7.087 / 4.331	7.874 / 5.118	9.843 / 5.906	9.843 / 6.693	9.843 / 7.874
Die height G / P inch	15.748 / 13.78	17.717 / 15.748	19.685 / 17.717	21.654 / 17.717	21.654 / 17.717

"G" is for general processing, "P" is for progressive processing.

440 ~ 551 tn types are special specifications.



Crank Press

TP FX SERIES

1-point / 17 ~ 275 tn

A wide range of machines to meet your needs

1. The TP-FX Series adopts a highly rigid frame and a six-sided guide of construction designed against eccentric loading. These are the long-selling presses focusing on stamping accuracy and versatility.
2. Standard TFT color screen provides better visibility and operator interface.
3. Advanced eco-functions are installed to achieve lower power consumption as compared with conventional machines.


TP-150FX

Machine name	TP-15FX	TP-25FX	TP-35FX	TP-45FX	TP-60FX	TP-80FX	TP-110FX	TP-150FX	TP-200FX
Frame type	C	C	C	C	C	C	C	C	C
Capacity tn	17	28	39	50	66	88	121	165	220
Strokes per minute G / D min ⁻¹	70 ~ 140	70 ~ 120	60 ~ 100	55 ~ 100	45 ~ 85	40 ~ 75	35 ~ 65 / 30 ~ 55	30 ~ 55 / 25 ~ 45	30 ~ 55 / 25 ~ 45
Stroke length G / D inch	2.362	3.15	4.331	3.937 / 5.906	4.724 / 6.299	5.118 / 7.087	5.906 / 7.874	6.89 / 8.858	7.874 / 9.843
Die height G / D inch	7.874	8.661	9.843	10.039 / 11.417	11.417 / 13.189	12.598 / 13.78	14.37 / 15.354	15.354 / 16.929	16.535 / 18.11

"G" is for general processing, "D" is for drawing processing.

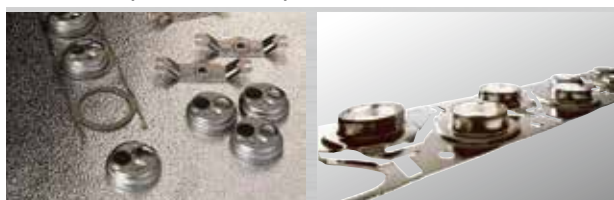
275 tn type is a special specification.

TPW FX SERIES

2-point / 121 ~ 330 tn

Basic models of wide bed stamping press machines

1. A planetary-gear transmission is adopted to increase the reduction ratio and to produce high torque and energy. This wide bed stamping press achieves stable continuous processing.
2. Standard TFT color screen provides better visibility and operator interface.
3. Advanced eco-functions are installed to achieve lower power consumption as compared with conventional machines.


TPW-110FX (C)

Machine name	TPW-110FX	TPW-150FX	TPW-200FX	TPW-250FX
Frame type	C / BI	C / BI	C / BI / BO	C / BI / BO
Capacity tn	121	165	220	275
Strokes per minute G / P / D min ⁻¹	35 ~ 65 / 55 ~ 110 / 25 ~ 50	30 ~ 55 / 45 ~ 90 / 25 ~ 45	25 ~ 45 / 40 ~ 75 / 20 ~ 35	20 ~ 40 / 30 ~ 60 / 15 ~ 30
Stroke length G / P / D inch	7.087 / 4.331 / 9.055	7.874 / 5.118 / 9.843	9.843 / 5.906 / 11.811	9.843 / 6.693 / 11.811
Die height G / P / D inch	15.748 / 13.78 / 17.717	17.717 / 15.748 / 19.685	19.685 / 17.717 / 21.654	21.654 / 17.717 / 23.622

"G" is for general processing, "P" is for progressive processing, "D" is for drawing processing.

330 tn type is a special specification.



Automation System for Progressive Stamping Press Production

ALFAS Digital AC Servo Press & Straightener-Feeder

1-point / 165 tn

Improved operability through integrating operation screen and controls

Operability and productivity are improved by integrating the operation screen and control of the i3-controlled servo press machine and straightener-feeder.

It has excellent stability and achieves even higher precision and productivity in stamping press working.

System example

Single-crank servo stamping press machine

Machine name	SDE-1515i3	
Frame type	SF (GORIKI)	
Capacity	tn	165
Strokes per minute	min ⁻¹	~ 95
Stroke length	inch	5.906
Die height	inch	14.961

Straightener-feeder

Machine name	ALFAS-03KR	
Width	inch	1.969 ~ 11.811
Thickness	inch	0.012 ~ 0.126
Max coil mass	lbs	4409
Max outer coil ø	inch	ø47.244
Max feed length	inch	15.748



SDE-1515i3 & ALFAS-03KR



ALFAS Digital AC Servo Press & High-Speed NC Roll Feeder

2-point / 88 & 176 tn

Improved productivity and quality with high-speed and high-precision feeding

This system integrates the high-rigidity GORIKI Series double-crank servo press machine developed for electrical components for EVs and a new concept high-speed NC roll feeder with servo driven pilot release and up-loop straightener.

System example

Double-crank servo stamping press machines

Machine name	SDEW-8010i3	SDEW-1613i3
Frame type	SF (GORIKI)	SF (GORIKI)
Capacity	tn	88
Strokes per minute	min ⁻¹	~ 130
Stroke length	inch	3.937
Die height	inch	12.598
		15.748

Roll feeder and up-loop straightener

Machine name	ALFAS-03ARZ	
Width	inch	1.969 ~ 11.811
Thickness	inch	0.008 ~ 0.039
Max coil mass	lbs	4409
Max outer coil ø	inch	ø47.244
Max feed speed	ft/sec	20



SDEW-8010i3 & ALFAS-03ARZ





High-Speed Line System with Articulated Robots and Servo-Drive Stamping Presses

ARPAS Stamping press machines & 6-axis articulated robots coordinated transfer

Automation system for stamping processing

Achieves high-speed transfer by WAVE coordinated control operation

SDE-i3 servo stamping press machines equipped with "i3" control, with which improved visibility and operability, can be easily are integrated with a 6-axis articulated robots.

High productivity is supported by WAVE coordinated control operation that minimizes the time required to transfer parts from press to press to increase thru-put. In addition, we have automated the process for changing the End Of Arm Tooling (EOAT). The automated (EOAT) change system shortens the setup time, contributes to labor saving, and enables continuous line operation.



Click here for video



ARPAS

AMADA Robot Press Automation System



High-Speed Tandem Press Line System

Stamping press machines & 2-axis servo robots coordinated transfer

Automation system for stamping processing

Pursuit of productivity and operability

A series of 2-axis high-speed servo robots that support stamping press automation with sophisticated designs and a wide variety of variations.

With the RHQ Robot Line, it is now possible to perform coordinated control operation in which the robot individually adjusts the timing with each stamping press machine through simple teaching, based on realistic alternating operation. Coordinated control operation achieves even higher production speeds.



SDE-8018i3 & RHQ-120

Click here for video





Straightener-Feeder

ORII Straightener-Feeder

Width: 1.968" ~ 51.181"
Thickness: 0.012" ~ 0.472"

Pursuit of productivity and operability

A Compact straightener-feeder is a piece of equipment that feeds coil material to a stamping press machine. The ORII Compact Straightener-Feeders are known for their space-saving design and are available in a wide variety of sizes from small to extra-large and are designed to handle most materials.



High-Performance models designed to meet demanding production requirements.



Compact design requires less production floor space while offering High-Performance.



Heavy duty large capacity units are designed to handle today's demanding materials.



Click here for product details

LCC-06HR3



Lineup of "ECO Release" equipped products

By installing the "ECO Release" mechanism, we have succeeded in reducing excess electricity-consumption! Since it is possible to control the optimum air cylinder pressure according to the processing material and the thickness, power consumption can be reduced by up to about 50%, contributing to energy savings. This will achieve significant CO₂ reductions.

LCC HF4/HF2 Series

Width: 1.968" ~ 39.370"
Thickness: Max 0.177"



LCC HR3 Series

Width: 2.756" ~ 51.181"
Thickness: Max 0.236"



LCC HF1 Series

Width: 1.968" ~ 23.622"
Thickness: Max 0.126"



LCC HL Series

Width: 2.756" ~ 51.181"
Thickness: Max 0.236"

ECO Release: optional



LCE HR3 Series

Width: 2.756" ~ 23.622"
Thickness: Max 0.236"



LCC PM2 Series

Width: 2.756" ~ 51.181"
Thickness: Max 0.354"

ECO Release: optional





Software

APINES, WANMS, SMAPS

Software

Visualization of operation status and maintenance information is easily accessible.

- A digital network can be constructed from mechanical to servo stamping press machines.
- Real-time monitoring of alarm and maintenance information for all machines on the network
- Offline capability to edit servo press motion path programs

V-factory IOT Solution of AMADA Group

Visualization of operation/production information

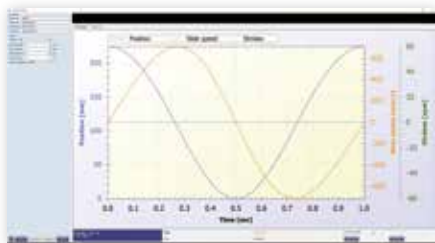


APINES Real-time production monitoring software



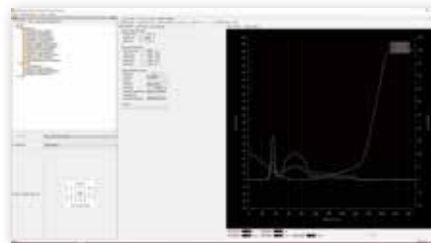
SMAPS Motion creation and editing software

Ability to create servo press motion paths off-line



WANMS Pressure waveform analysis software

Management of product quality by monitor processing load



Information sharing with external systems

IOT Solution of AMADA Group

V-factory:

Visualization of operation/production information

Computer terminal

- Reference of operating information
- Creating daily/monthly reports

APINES Web server

Real-time production monitoring

- Operation and Maintenance data

Mobile phone/Tablet

- Easy, on-the-go access to operating and maintenance information

Wireless LAN router

WANMS

Pressure waveform analysis software

SMAPS

Motion creation and editing software

Automated collection of production/operation data

Network-compatible stamping press machines



TP-FX Series

SDE-i3/
SDEW-i3 Series


SDE-i3/
SDEW-i3
GORIKI Series

SWE-i3 Series

ALFAS Line

ARPAS Line

Warning: O.S.H.A. - required point of use guards for protecting the operator are not included and are the responsibility of the end user. These items can be purchased as a turn-key option.

 Before using those products, please read the operator's manual carefully and follow all applicable instructions.

- Use of this product requires safeguard measures to suit your work. For details, see the safety guide on the home page.
- The servo presses correspond to the press machines specified in the Ordinance on Industrial Safety and Health. It is necessary to make application for their installation and take any other measure required.
- Options are included in the photos.



This control meets or exceeds the current requirements for press control systems as defined in O.S.H.A. Standards Section 1910.217, paragraphs (b)13 and (b)14 as published in the Federal Register, July 1, 1991 and ANSI B11.1-2009 as interpreted by AMADA PRESS SYSTEM CO., LTD. Compliance with any local code(s) or requirements is the responsibility of the user.

- * Specifications, appearance, and equipment are subject to change without notice for improvement and other purposes.
- * The official "Model name" for machines are without hyphen, like SDE8018I3. Use these official "Model name" when contacting authorities to apply for
- * installation, export, or financing. In this catalog, if there is a part with a hyphen in it, like "SWE-4025i3," it is
- * for readability. The specifications described in this catalog are for the North American
- * market. Please ask your sales person for details.

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Inquiry



Jul 2023 US2