



General catalogue



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



Second plant in Suzukawa Works



Assembly plant in Guangdong, China



AMADA Solution Center



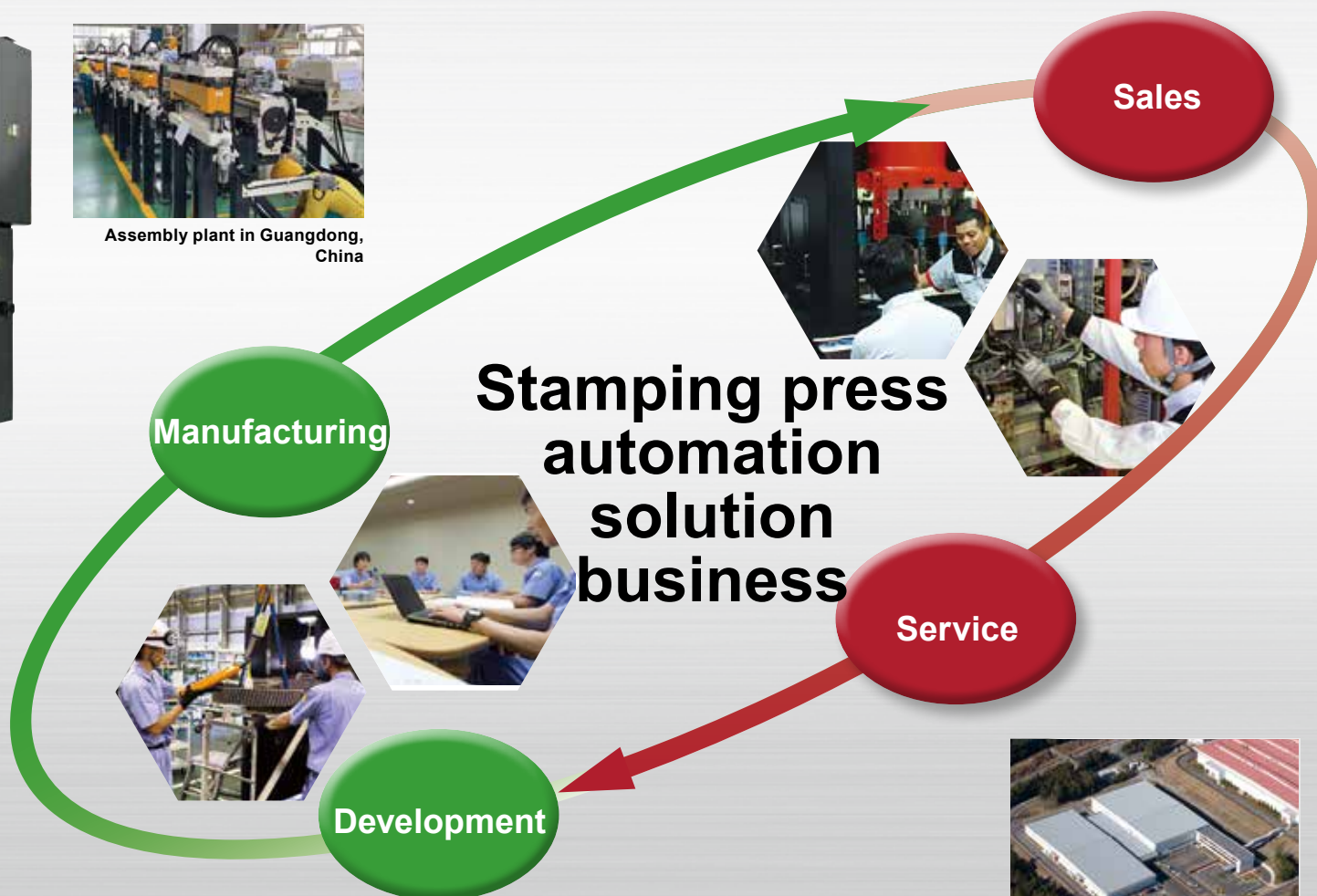
Kansai Technical Center



Overseas base in Thailand



Overseas base in U.S.A.



AMADA Innovation Center



Suzukawa Works



AMADA Parts Center, where integrated supply base



Service car

Digital AC Servo Press

Link press

SDE iIII PRESS SERIES
800 ~ 3000 kN P7▶

SDE iIII GORIKI SERIES
1500 ~ 3000 kN P8▶

TPL FX SERIES
450 ~ 3000 kN P10▶

SDEW iIII SERIES
2000 & 3000 kN P7▶

SDEW iIII GORIKI SERIES
800 & 1600 kN P8▶

TPWL FX SERIES
1100 ~ 5000 kN P10▶

SWE iIII SERIES
4000 & 6000 kN P9▶

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

Automation system for progressive stamping press production

Crank press



TP FX SERIES
150 ~ 2500 kN

P11▶



Knuckle link press



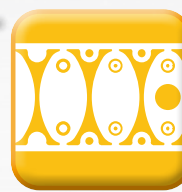
TPW FX SERIES
1100 ~ 3000 kN

P11▶



PDL SERIES
3000 ~ 6000 kN

P9▶



ALFAS
AMADA Leveler Feeder Automation System



SDE-1515i3 & ALFAS-03KR
800 ~ 3000 kN

P13▶

ALFAS
AMADA Leveler Feeder Automation System



SDEW-8010i3 & ALFAS-03ARZ
800 & 1600 kN

P13▶

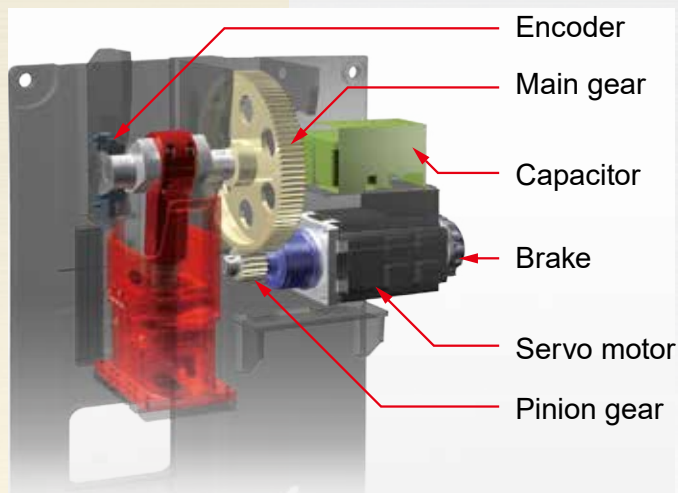


Digital AC Servo Press

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.

Mechanical image



Sample motion screen



12 types* of motion that enable high value-added forming and productivity improvement (As additional options: 15 motions)
*Some models have optional motions.

"MF Eco machines" with environmental consideration

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



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

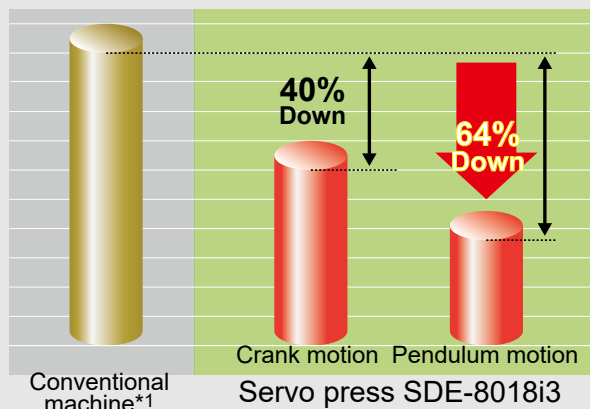
machines. The ECO monitor screen allows for the visualization of power consumption.

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. It contributes to 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

SDE iIII SERIES**1-point / 800 ~ 3000 kN****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	kN	800	1100	1500	2000	3000
Strokes per minute	min ⁻¹	~ 80	~ 70	~ 60	~ 55	~ 40
Stroke length	mm	180	200	225	250	300
Die height	mm	350	390	430	460	550

SDEW iIII SERIES**2-point / 2000 & 3000 kN****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	kN	2000	3000
Strokes per minute	min ⁻¹	~ 50	~ 45
Stroke length	mm	250	250
Die height	mm	500	550



Digital AC Servo Press

SDE i III GORIKI SERIES

1-point / 1500 ~ 3000 kN

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 out performs the lateral rigidity when compared with conventional models. The improved eccentric load resistance characteristics sustain stable stamping accuracy.


GO-RIKI
SDE-1515i3

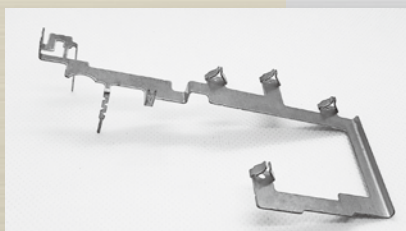
Machine name		SDE-1515i3	SDE-2017i3	SDE-3020i3
Frame type		SF (GORIKI)	SF (GORIKI)	SF (GORIKI)
Capacity	kN	1500	2000	3000
Strokes per minute	min ⁻¹	~ 95	~ 75	~ 60
Stroke length	mm	150	175	200
Die height	mm	380	415	460

SDEW i III GORIKI SERIES

2-point / 800 & 1600 kN

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.


GO-RIKI
SDEW-8010i3

Machine name		SDEW-8010i3	SDEW-1613i3
Frame type		SF (GORIKI)	SF (GORIKI)
Capacity	kN	800	1600
Strokes per minute	min ⁻¹	~ 130	~ 80
Stroke length	mm	100	130
Die height	mm	320	400

SWEiIII SERIES**2-point / 4000 & 6000 kN****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%.



Machine name		SWE-4025i3	SWE-6040i3
Frame type		SF	SF
Capacity	kN	4000	6000
Strokes per minute	min ⁻¹	~ 45	~ 40
Stroke length	mm	250	400
Die height	mm	600	600



SWE-6040i3

**Knuckle Link Press****PDL** SERIES**2-point / 3000 ~ 6000 kN****Possible high value-added cold forging progressive processing**

Slowdown near the bottom dead center and practical stop at the bottom dead center assure accurate plastic working.

Slow return movement of a normal punch when returning from a die clears obstacle in operation rate due to scrap rising accurately.

Frame rigidity is several times higher than that of conventional stamping press machines. An optimum frame and bed structure is combined with a highly rigid structure of column, slide, and crown. The total elongation is 0.005 mm/10 kN or less.



Machine name		PDL-300	PDL-400
Frame type		SF	SF
Capacity	kN	3000	4000
Strokes per minute	min ⁻¹	35 ~ 70	35 ~ 70
Stroke length	mm	150	150
Die height	mm	600	600



PDL-300

~ 6000 kN types are special specifications.



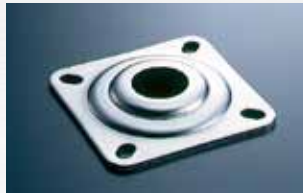
Link Press

TPL FX SERIES

1-point / 450 ~ 3000 kN

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			kN 450	600	800	1100	1500	2000
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 mm 70 / 140	90 / 160	100 / 180	125 / 200	150 / 250	175 / 300
Die height			P / D mm 255 / 290	290 / 335	320 / 350	350 / 390	380 / 420	415 / 460

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

The 3000 kN type is a special specification.

TPWL FX SERIES

2-point / 1100 ~ 5000 kN

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			kN 1100	1500	2000	2500	3000
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 mm 180 / 110	200 / 130	250 / 150	250 / 170	250 / 200
Die height			G / P mm 400 / 350	450 / 400	500 / 450	550 / 450	550 / 450

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

4000 ~ 5000 kN types are special specifications.



Crank Press

TP FX SERIES

1-point / 150 ~ 2500 kN

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 colour 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	kN	150	250	350	450	600	800	1100	1500	2000
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 mm	60	80	110	100 / 140	120 / 160	130 / 180	150 / 200	175 / 225	200 / 250
Die height	G / D mm	200	220	250	255 / 290	290 / 335	320 / 350	365 / 390	390 / 430	420 / 460

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

2500 kN type is a special specification.

TPW FX SERIES

2-point / 1100 ~ 3000 kN

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 colour 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	kN	1100	1500	2000	2500
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 mm	180 / 110 / 230	200 / 130 / 250	250 / 150 / 300	250 / 170 / 300
Die height	G / P / D mm	400 / 350 / 450	450 / 400 / 500	500 / 450 / 550	550 / 450 / 600

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

3000 kN type is a special specification.



Automation System for Progressive Stamping Press Production

ALFAS Digital AC Servo Press & Straightener-Feeder

1-point / 1500 kN

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 kN	1500
Strokes per minute min ⁻¹	~ 95
Stroke length mm	150
Die height mm	380

Straightener-feeder

Machine name	ALFAS-03KR
Width mm	50 ~ 300
Thickness mm	0.3 ~ 3.2
Max coil mass kg	2000
Max outer coil ø mm	ø1200
Max feed length mm	400



SDE-1515i3 & ALFAS-03KR

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

2-point / 800 & 1600 kN

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 kN	800	1600
Strokes per minute min ⁻¹	~ 130	~ 80
Stroke length mm	100	130
Die height mm	320	400

Roll feeder and up-loop straightener

Machine name	ALFAS-03ARZ
Width mm	50 ~ 300
Thickness mm	0.2 ~ 1.0
Max coil mass kg	2000
Max outer coil ø mm	ø1200
Max feed speed m/sec	6.0



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 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 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 labour saving, and enables continuous line operation.



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.

Click here for product details



SDE-8018i3 & RHQ-120



Straightener-Feeder

ORII Straightener-Feeder

Width: 50 ~ 1300 mm
Thickness: 0.3 ~ 12.0 mm

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

High-Performance models designed to meet demanding production requirements.

Compact

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

Heavy Duty

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



LCC-06HR3



Click here
for product details



ECO Release

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: 50 ~ 1000 mm
Thickness: Max 4.5 mm

High Performance



LCC HR3 Series

Width: 70 ~ 1300 mm
Thickness: Max 6.0 mm

High Performance



LCC HF1 Series

Width: 50 ~ 600 mm
Thickness: Max 3.2 mm

High Performance



LCC HL Series

Width: 70 ~ 1300 mm
Thickness: Max 6.0 mm
ECO Release: optional

High Performance



LCE HR3 Series

Width: 70 ~ 600 mm
Thickness: Max 6.0 mm

High Performance



LCC PM2 Series

Width: 70 ~ 1300 mm
Thickness: Max 9.0 mm
ECO Release: optional

Heavy Duty





Software

APINES, WANMS, SMAPS

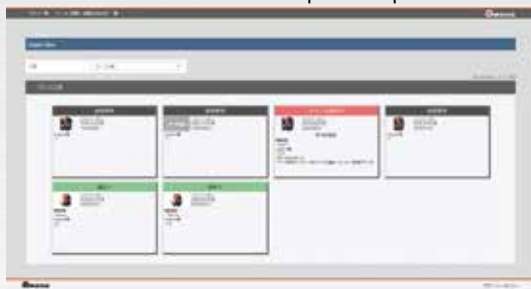
Software

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

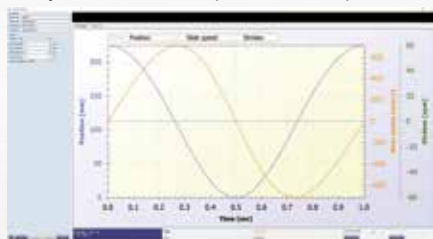


APINES Real-time production monitoring software



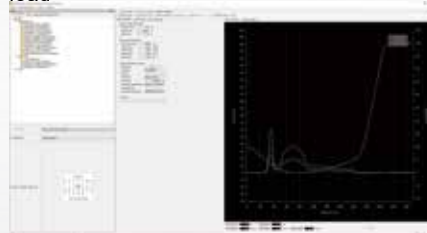
SMAPS Motion creation and editing software

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 GORIKI Series



SWE-i3 Series



ALFAS Line



ALFAS Line



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.



- * 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 catalogue, if there is a part with a hyphen in it, like "SDE-8018i3," it is for readability.
- * The specifications described in this catalogue are for the Japanese market. Please ask your sales person for details.

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