GENERAL CATALOG

Stamping Press Machines



influent by AMADA

AMADA®

AMADA & ORII:
A History of Progress

Year	Company	Milestone
1965	AMADA	Launched the first TP machine.
1970s	ORII	Developed Robot Line Systems such as the RY and RYN series to prioritize human safety and production efficiency.
1973	AMADA	Launched TPW Series.
1979	AMADA	Launched TP-B Series.
1980s	ORII	Developed compact NC coil-feed lines, including the best-selling LCC03KR2 leveler feeder, for shops with space limitations.
1981	AMADA	Launched TP-C Series.
1982	AMADA	Launched TPW-B Series.
1987	AMADA	Launched TPW-C Series.
1990	AMADA	Launched industry's first C-frame link presses, the TPL Series.
1995	AMADA	Launched TPL-Si Series silent link presses.
1996	AMADA	Launched TPWL Series 2-point link presses.
1997	AMADA	Launched TP-EX Series.
2003	AMADA	Launched SDE Series digital AC servo presses.
2007	AMADA	Launched SDEW Series 2-point digital AC servo presses.
2014	AMADA	Launched TP-FX, TPL-FX, TPW-FX, and TPWL-FX Series equipped with ECO functions.
2015	AMADA	Launched SWE-4025 digital AC servo press.
2016	AMADA	Launched SDE Series GORIKI high-rigidity digital AC servo presses.
2018	AMADA / ORII	AMADA acquires ORIIMEC, uniting their expertise in stamping presses and automation technology.
2020	AMADA	Launched i3 control for SDE-i3, SDEW-i3, and SDE-i3 GORIKI Series digital AC servo presses.
2021	AMADA	Launched the ALFAS automation system with 2-point digital AC servo presses SWE-i3 and SDEW-i3 GORIKI for progressive stamping press production.
2022	AMADA	Launched the ARPAS high-speed line system with articulated robots and servo-driven stamping presses.
2026	AMADA	AMADA PRESS SYSTEM, INC. integrates with AMADA AMERICA, INC.

Global Network

Connecting Development, Manufacturing and Service Worldwide.

A global network built on precision, innovation, and reliability.

01



DEVELOPMENT
Engineering the future

- Engineering Center — Japan
- Technology Innovation
- Product Design
- Automation Research

5+ Engineering Centers

1,000+ Engineers & Researchers

02



MANUFACTURING
Precision. Quality. Scale.

- Production Facilities — Japan / China / Thailand
- Precision Manufacturing
- Global Quality Standards
- Sustainable Operations

3 Production Regions

Global Quality Standards

03



SALES & SERVICE
Local support. Global commitment.

- Sales & Solution Centers — Americas / Europe / Asia
- Installation & Commissioning
- Training & Education
- After Sales Service & Support

90+ Countries Supported

24/7 Global Service Support

STAMPING PRESS AUTOMATION SOLUTIONS

AMADA has a line of stamping press machines and peripheral equipment to meet the specific needs of any customer. You can select the correct machines and peripheral equipment that best suits your application in terms of lead time, cost, and other factors.

DIGITAL AC SERVO PRESS

1-POINT



SDE i III
88 ~ 330 US tons



SDE i III GORIKI
165 ~ 330 US tons

2-POINT



SDEW i III
220 ~ 330 US tons



SDEW i III GORIKI
88 ~ 176 US tons



SWE i III
330 ~ 660 US tons

LINK PRESS



TPL FX
50 ~ 220 US tons



TPWL FX
121 ~ 551 US tons

CRANK PRESS



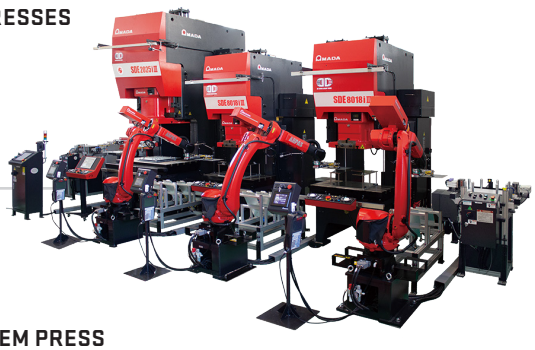
TP FX
17 ~ 250 US tons



TPW FX
121 ~ 275 US tons

HIGH-SPEED LINE SYSTEM WITH ARTICULATED ROBOTS AND SERVO-DRIVEN PRESSES

ARPAS



COMPACT FEED SYSTEMS

ORII



HIGH-SPEED TANDEM PRESS LINE SYSTEM

RHQ



SOFTWARE

V-FACTORY AMADA Group IOT Solution
APINES Visualization software for press shop
WANMS Pressure waveform analysis software
SMAPS Motion creation and editing software

AUTOMATION SYSTEM FOR PROGRESSIVE STAMPING PRESS PRODUCTION

1-POINT



ALFAS
165 US tons

2-POINT



ALFAS
88 & 176 US tons

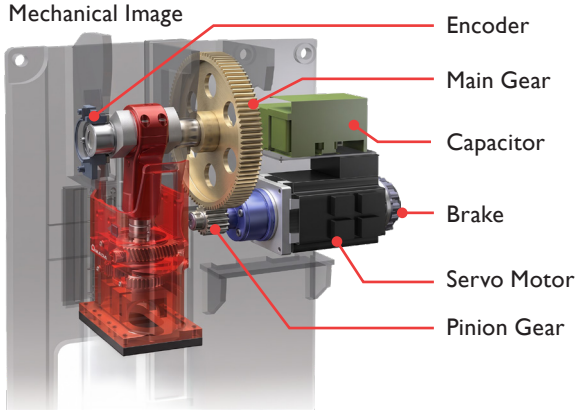
LINEUP

DIGITAL AC SERVO PRESS

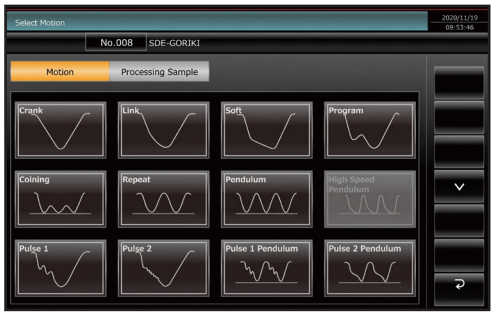
Designed for value-added forming and improved productivity

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

Mechanical Image



Sample Motion Screen



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

*Some models offer optional motions; up to 15 motion patterns are available with options.

"MF Eco machines" with environmental consideration

AMADA's servo press machines were the first to be MF Eco machine-certified

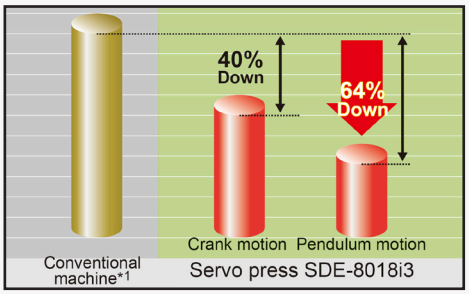
AMADA's servo press machines were certified by the Japan Forming Machinery Association as MF Eco machines, or environmentally conscious products, which contribute to environmental impact reduction and working environment improvement.

01

Power Conservation: Sharp reduction of power consumption

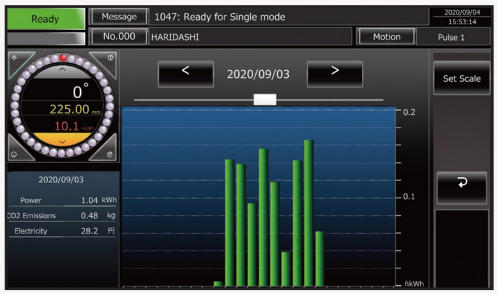
The power load-leveling, energy-saving circuit of the servo presses significantly reduces power consumption compared with conventional machines. The ECO monitor screen allows for the visualization of power consumption.

Power Consumption



Conventional Machine*1 | Servo Press SDE-8018i3

ECO Monitor Screen



02

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.

*1 Mechanical stamping press machine of the same class
*2 Compared with SDEW-3025i3

03

Working Environment: Significant reduction of stamping noise

Optimum slide motions reduce the high decibel range of stamping noise to improve the working environment.

DIGITAL AC SERVO PRESS

SDEW i III

2-point / 220 & 330 US tons

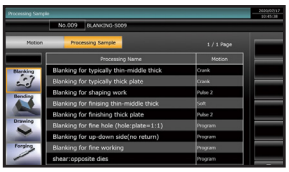
High value-added forming and improved productivity

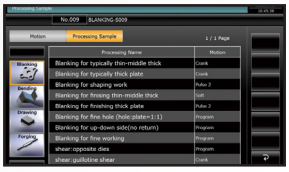
1. The development of a digital servo direct drive that provides precise processing motion control and a high-rigidity integrated straight side frame maximizes stamping performance at two points.
2. This system increases precision and productivity while achieving excellent repeatability by making full use of crank, link, soft, program, pendulum, high-speed pendulum, coining, and repetitive motions.



Features

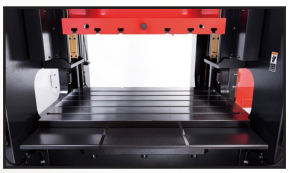

Motion Patterns

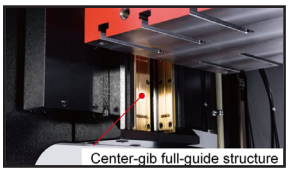

Improved Operability


Motion Programming



Chevron-Shaped Structure


Slide Area



Center-Gib, Full-Guide Structure

Machine Name		SDEW-2025i3	SDEW-3025i3
Frame Type		SF	SF
Capacity	US tons	220	330
Stroke Rate	Stroke Rate (SPM) (maximum stroke length)	~ 50	~ 45
Stroke Length	in.	9.84	9.84
Die Height	in.	19.69	21.65

Stroke Rate (SPM) is based on maximum stroke length. Higher rates may be achievable in pendulum mode depending on stroke length and application conditions.

DIGITAL AC SERVO PRESS

SDE i III GORIKI

1-point / 165 ~ 330 US tons

High-speed, high-precision processing and improved productivity

The “GORIKI” Series are high-rigidity stamping press machines 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 conventional models in lateral rigidity. The improved eccentric load resistance characteristics ensure stable stamping accuracy.



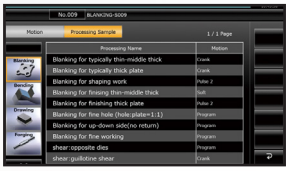
Features



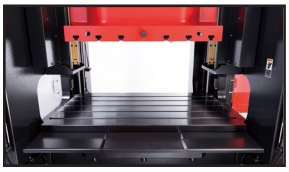
Diverse Motion Patterns



Improved Operability



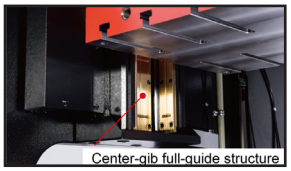
Simple Selection



Enlarged Slide Area



Chevron-Shaped Structure



Center-Gib, Full-Guide Structure

Machine Name		SDE-1515i3	SDE-2017i3	SDE-3020i3
Frame Type		SF (GORIKI)	SF (GORIKI)	SF (GORIKI)
Capacity	US tons	165	220	330
Stroke Rate	Stroke Rate (SPM) (maximum stroke length)	~ 95	~ 75	~ 60
Stroke Length	in.	5.91	6.89	7.87
Die Height	in.	14.96	16.33	18.11

Stroke Rate (SPM) is based on maximum stroke length. Higher rates may be achievable in pendulum mode depending on stroke length and application conditions.

DIGITAL AC SERVO PRESS

SDEW i III GORIKI

2-point / 88 & 176 US tons

High-speed, high-precision processing now in a double crank configuration

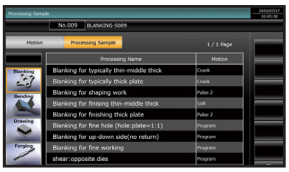
The high-rigidity GORIKI Series, equipped with "i3" control, is available with a double-crank mechanism that has 8-sided slide gibbing. The high eccentric load resistance in the left, right, front and back directions is ideal for manufacturing electrical components such as busbars, which often have asymmetrical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



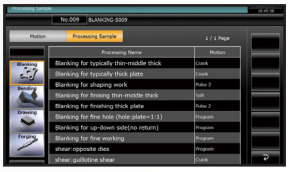
Features



Diverse Motion Patterns



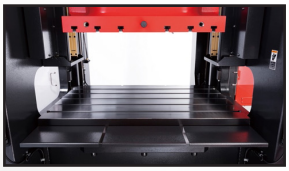
Improved Operability



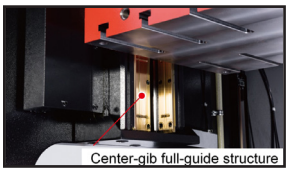
Motion Selection



Chevron-Shaped Structure



Slide Area



Center-Gib, Full-Guide Structure

Machine Name		SDEW-8010i3	SDEW-1613i3
Frame Type		SF (GORIKI)	SF (GORIKI)
Capacity	US tons	88	176
Stroke Rate	Stroke Rate (SPM) (maximum stroke length)	~ 130	~ 100
Stroke Length	in.	3.94	5.12
Die Height	in.	12.60	15.75

Stroke Rate (SPM) is based on maximum stroke length. Higher rates may be achievable in pendulum mode depending on stroke length and application conditions.

DIGITAL AC SERVO PRESS

SWE i III

2-point / 330 ~ 674 US tons

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 repeatability in high-precision manufacturing. The double-crank and cross shaft structure suppresses slide deflection, leading to improved accuracy. Additionally, the newly developed tie-rod side insertion method has reduced the required installation height by approximately 30%.



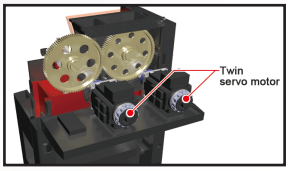
Features



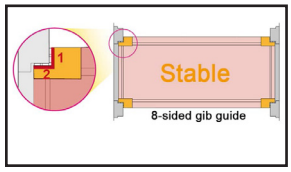
Diverse Motion Patterns



Improved Operability



High Productivity



Optimum Frame Structures



Auto Slide Adjustment

Machine Name		SWE-3020i3	SWE-4025i3	SWE-6040i3
Frame Type		SF	SF	SF
Capacity	US tons	330	440	660
Stroke Rate	Stroke Rate (SPM) (maximum stroke length)	~ 60	~ 45	~ 40
Stroke Length	in.	7.87	9.84	15.75
Die Height	in.	21.65	23.62	23.62

Stroke Rate (SPM) is based on maximum stroke length. Higher rates may be achievable in pendulum mode depending on stroke length and application conditions.

LINK PRESS

TPL FX

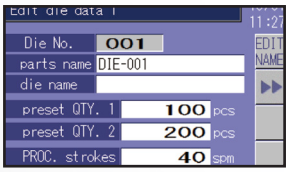
1-point / 49.5 ~ 220 US tons

Achieves high precision and high productivity

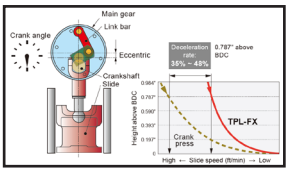
1. Unprecedented accuracy, high productivity, and deep drawability are achieved with a link mechanism.
2. Eco-functions reduce power consumption.
3. Improved operability and machine data management



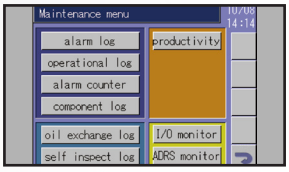
Features



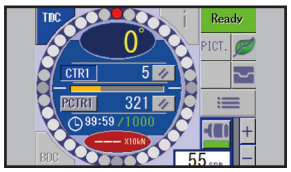
Die Information



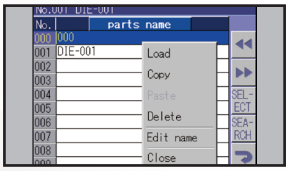
Link mechanism provides high productivity and accuracy



Maintenance Management Menu



Pendant Control Panel



Program Save and Select



Two-Hand Control Panel with Protective Guard Rings

Machine Name			TPL-45FX	TPL-60FX	TPL-80FX	TPL-110FX	TPL-150FX	TPL-200FX
Frame Type			SF	SF	SF	SF	SF	SF
Capacity	P/D	US tons	49.5	66	88	121	165	220
Stroke Rate	P/D	Stroke Rate (SPM)	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	in.	2.76 / 5.51	3.54 / 6.30	3.94 / 7.09	4.92 / 7.87	5.91 / 9.84	6.89 / 11.81
Die Height	P/D	in.	10.04 / 11.42	11.42 / 13.19	12.60 / 13.78	13.78 / 15.35	14.96 / 16.54	16.34 / 18.11

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

LINK PRESS

TPWL FX

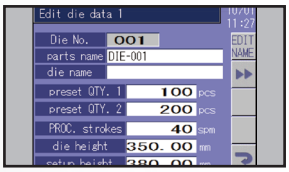
2-point / 121 ~ 550 US tons

Achieves high precision and reduces production noise

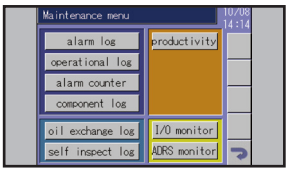
1. A link mechanism is installed as standard on the C frame and 2 points.
2. Bridge specifications (BI, BO, BN, and SF types) limit gap opening to achieve high-accuracy stamping.
3. Eco-functions reduce power consumption.



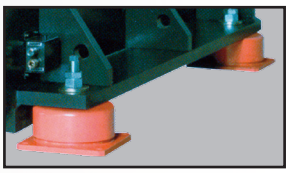
Features



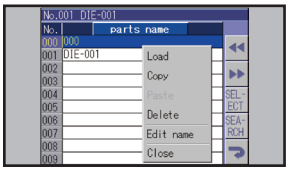
Die Information



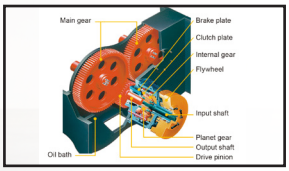
Maintenance Management Menu



Pit-Less, Low-Working Surface



Program Save and Select



Traditional AMADA Wet Transmission



Two-Hand Control Panel with Protective Guard Rings

Machine Name			TPWL-110FX	TPWL-150FX	TPWL-200FX	TPWL-250FX	TPWL-300FX	TPWL-400FX	TPWL-500FX
Frame Type			C / BI	C / BI	C / BI / BO / SF	C / BI / BO / BN	BI / BO / BN / SF	BI / BN	BI / BN
Capacity	G/P	US tons	121	165	220	275	330	450	550
Stroke Rate	G/P	Stroke Rate (SPM)	35 ~ 65 / 40 ~ 80	30 ~ 55 / 40 ~ 75	25 ~ 45 / 40 ~ 65	20 ~ 40 / 30 ~ 60	20 ~ 40 / 30 ~ 55	20 ~ 40 / 30 ~ 50	20 ~ 40 / 30 ~ 50
Stroke Length	G/P	in.	7.09 / 4.33	7.87 / 5.12	9.84 / 5.91	9.84 / 6.69	9.84 / 7.87	9.84 / 7.87	9.84 / 7.87
Die Height	G/P	in.	15.75 / 13.77	17.72 / 15.75	19.69 / 17.72	21.65 / 17.72	21.65 / 17.72	21.65 / 19.69	23.62 / 19.69

"G" is for general purpose. "P" is for progressive.

CRANK PRESS

TP FX

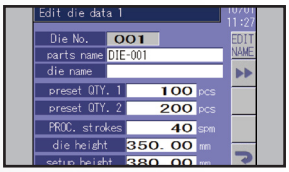
1-point / 17 - 250 US tons

A wide range of machines to meet your needs

1. The TP-FX Series features a high-rigidity frame and six-sided guide construction that is designed to eliminate eccentric loading. These field proven presses set the industry standard for stamping accuracy and versatility.
2. Standard TFT color screen provides better visibility and operator interface.
3. Advanced eco-functions are included to achieve lower power consumption compared with conventional machines.



Features

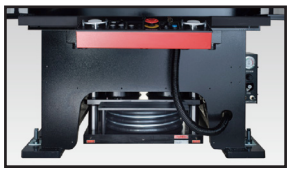


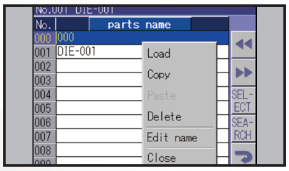
Die Information


Highly-Rigid Frame and Bolster



Pendant Control Panel


Pneumatic Die Cushion



Program Save and Select


Two-Hand Control Panel with Protective Guard Rings

Machine Name			TP-15FX	TP-25FX	TP-35FX	TP-45FX	TP-60FX	TP-80FX	TP-110FX	TP-150FX	TP-200FX	TP-250FX
Frame Type			C	C	C	C	C	C	C	C	C	C
Capacity	G/D	US tons	17	28	39	49.5	66	88	121	165	220	250
Stroke Rate	G/D	Stroke Rate (SPM)	70 ~ 140	70 ~ 120	60 ~ 100	55 ~ 100	45 ~ 85	40 ~ 75	35 ~ 65 / 30 ~ 55	30 ~ 55 / 25 ~ 45	30 ~ 55 / 25 ~ 45	25 ~ 45 / 30 ~ 50
Stroke Length	G/D	in.	2.36	3.15	4.33	3.94 / 5.51	4.72 / 6.30	5.12 / 7.09	5.91 / 7.87	6.89 / 8.86	7.87 / 9.84	7.87 / 9.84
Die Height	G/D	in.	7.87	8.66	9.84	10.04 / 11.42	11.42 / 13.19	12.60 / 13.78	14.37 / 15.35	15.35 / 16.93	16.54 / 18.11	16.54 / 18.11

"G" is for general purpose. "D" is for drawing.

CRANK PRESS

TPW FX

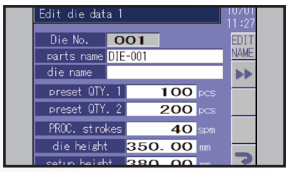
2-point / 121 ~ 275 US tons

Base model wide-bed stamping press machines

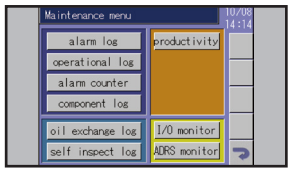
1. A planetary-geared transmission has been adopted to increase the reduction ratio and produce high torque and energy. This wide-bed stamping press achieves stable continuous processing.
2. Standard TFT color screen provides better visibility and operator interface.
3. Advanced eco-functions are included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



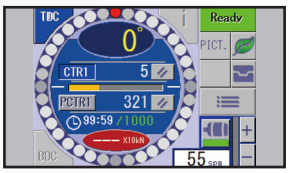
Features



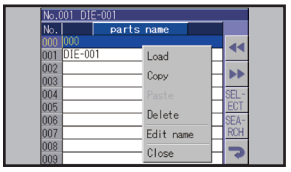
Die Information



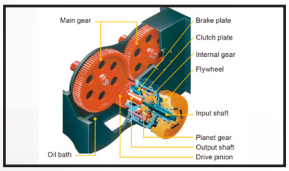
Maintenance Management Menu



Pendant Control Panel



Program Save and Select



Traditional AMADA Wet Transmission



Two-Hand Control Panel with Protective Guard rings

Machine Name			TPW-110FX	TPW-150FX	TPW-200FX	TPW-250FX
Frame Type			C / BI	C / BI	C / BI / BO	C / BI / BO
Capacity	G/P/D	US tons	121	165	220	275
Stroke Rate	G/P/D	Stroke Rate (SPM)	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	in.	7.08 / 4.33 / 9.05	7.87 / 5.11 / 9.84	9.84 / 5.90 / 11.81	9.84 / 6.69 / 11.81
Die Height	G/P/D	in.	15.74 / 13.77 / 17.71	17.71 / 15.74 / 19.68	19.68 / 17.71 / 21.65	21.65 / 17.71 / 23.62

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

The ORII Story: Born from Necessity, Driven by Innovation

The ORII philosophy was born from a fundamental belief in human safety. In the 1960s and 70s, as Mr. Orii observed the stamping floors, he saw too many workers suffering injuries. This was in stark contrast to the prevailing industry belief that such injuries were often viewed as a "badge of honor." Mr. Orii rejected this dangerous mindset and committed to automation as a means of protection. His conviction led to the development of the RY-style, 2-axis robots. The demand was immediate and massive, sparking a significant movement toward production efficiency and, most critically, human safety across Japan. The idea of "Safety First" remains the foundation of the ORII spirit.

By the 1980s, the call for automation was paired with a new challenge: space limitations in Japan. Mr. Orii recognized the need for NC coil-feed lines that could fit where traditional long-footprint feeders could not. He developed the compact feeder, addressing the huge demand for space-saving lines. Where applications were initially limited, our commitment to Kaizen (continuous improvement) took over. Our engineers worked tirelessly to solve complex issues directly on the customer floor, incorporating every solution into the next generation of feeders. This trial-and-error process, tenacity, and passion for improvement have set the ORII compact feeder line—including our core KR3, HF, and HR lines—apart from all others. The ideas of "Safety First" and "Kaizen" are the lifeblood of the ORII spirit.



COMPACT FEED SYSTEMS

ORII

Width: 1.97" ~ 51.18" / Thickness: 0.012" ~ 0.354"



Pursuit of compact performance

A Compact Feed System is a piece of equipment that feeds coil material to a stamping press machine. The ORII Compact Feed Systems 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.

The latest ECO & SILENT release mechanism significantly reduces air consumption

The latest ECO & SILENT release mechanism, through optimal control of the release stroke to match leveling, results in three positive effects. Air consumption is reduced by 50% to 75%, noise reduction of roughly 3.5 to 6.5 dB during release, and improved release tracking performance by roughly 17% to 20% compared to conventional machines.

HIGH PERFORMANCE

LCC HR3

Width: 2.76" ~ 51.18"
Thickness: Max 0.236"



HIGH PERFORMANCE

LCC HF4

Width: 1.97" ~ 23.62"
Thickness: Max 0.177"



COMPACT

LCC KR3

Width: 1.97" ~ 15.75"
Thickness: Max 0.126"



HEAVY DUTY

LCC PM2

Width: 2.76" ~ 51.18"
Thickness: Max 0.354"



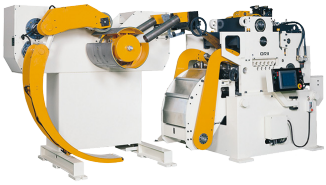
Lineup of ECO Release-equipped products.

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 CO^2 reductions.

HIGH PERFORMANCE

LCC HL

Width: 2.76" ~ 51.18"
Thickness: Max 0.236"



ECO Release: optional

HIGH PERFORMANCE

LCE HR3

Width: 2.76" ~ 23.62"
Thickness: Max 0.236"



AUTOMATION SYSTEM FOR PROGRESSIVE STAMPING PRESS PRODUCTION

ALFAS

Improved operability through an integrated operation screen and controls

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

This system has excellent stability and maximizes precision and productivity for stamping press applications.



Single-Crank Servo Stamping Press Machine

Machine Name			SDE-1515i3
Frame Type			SF (GORIKI)
Capacity	G/D	US tons	165
Stroke Rate	G/D	Stroke Rate (SPM) (maximum stroke length)	~ 95
Stroke Length	G/D	in.	5.91
Die Height	G/D	in.	14.96

"G" is for general purpose. "D" is for drawing.

Straightener-Feeder

Specification		ALFAS-03KR
Width	in.	1.97 ~ 11.81
Thickness	in.	0.012 ~ 0.126
Max. Coil Mass (lb)	lbs.	4,409
Max. Coil O.D.	in.	47.24
Max. Feed Speed (ft/min)	ft/min.	52.49

DIGITAL AC SERVO PRESS & HIGH-SPEED NC ROLL FEEDER

ALFAS

2-point / 88 & 176 US tons

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 with a high-speed NC roll feeder with servo-driven pilot release and up-loop straightener.



Double-Crank Servo Stamping Press Machines

Machine Name			SDEW-8010i3	SDEW-1613i3
Frame Type			SF (GORIKI)	SF (GORIKI)
Capacity	G/D	US tons	88	176
Stroke Rate	G/D	Stroke Rate (SPM) (maximum stroke length)	~ 130	~ 100
Stroke Length	G/D	in.	3.94	5.12
Die Height	G/D	in.	12.60	15.75

"G" is for general purpose. "D" is for drawing.

Roll Feeder and Up-Loop Straightener

Specification		ALFAS-03ARZ
Width	in.	1.97 ~ 11.81
Thickness	in.	0.008 ~ 0.039
Max. Coil Mass (lb)	lbs.	4,409
Max. Coil O.D.	in.	47.24
Max. Feed Speed (ft/min)	ft/min.	1181.10

HIGH-SPEED LINE SYSTEM WITH ARTICULATED ROBOTS AND SERVO-DRIVE PRESSES

ARPAS

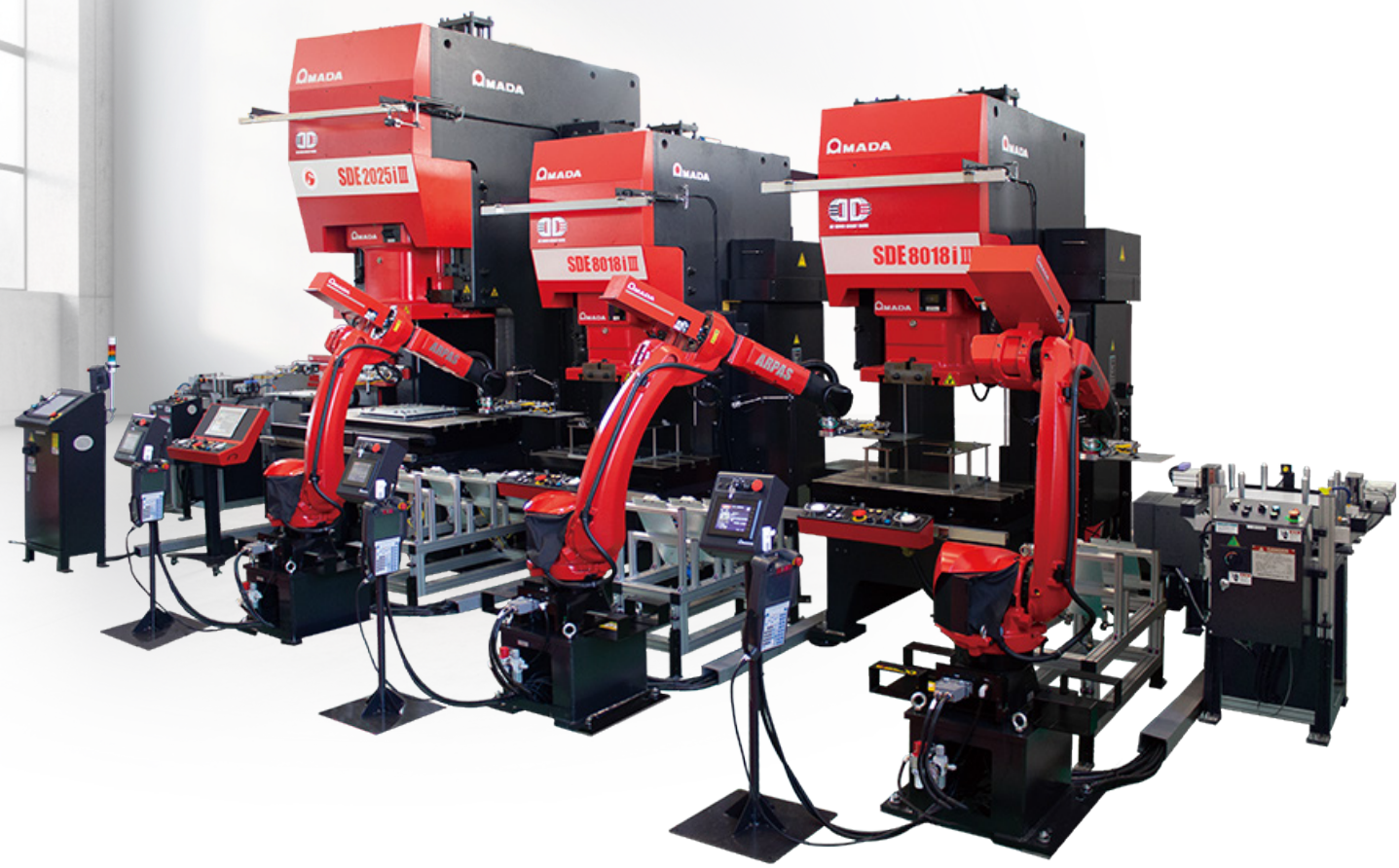
Automation system for stamping processing

Achieves high-speed transfer by WAVE synchronized control operation

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

High productivity is supported by WAVE synchronized control operation that minimizes the time required to transfer parts from press to press to increase throughput. Additionally, AMADA has automated the process for changing the end-of-arm tooling (EOAT).

The automated (EOAT) change system shortens the setup time, contributes to labor savings, and enables continuous line operation.



HIGH-SPEED TANDEM PRESS LINE SYSTEM

RHQ

Pursuit of productivity and operability

A versatile range of 2-axis high-speed servo robots designed for stamping press automation.

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



SOFTWARE

APINES, WANMS, SMAPS

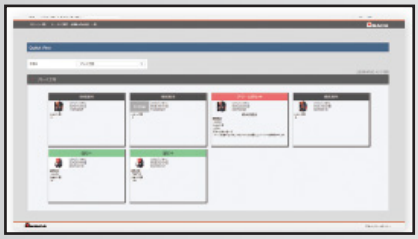
Visualization of operation status and maintenance information is easily accessible

- 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

AMADA Group IOT Solution

Visualization of operation/ production information



APINES

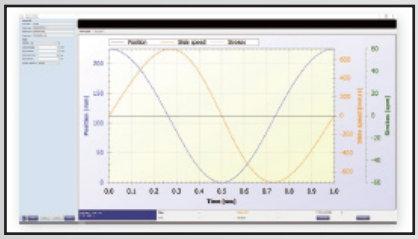
Real-time production monitoring software



SMAPS

Motion creation and editing software

Ability to create servo press motion paths offline



WANMS

Management of product quality by monitoring processing load



Information sharing with external systems

AMADA Group IOT Solution
V-FACTORY
Visualization of operational/production information

Mobile phone/Tablet
- Easy, on-the-go access to operating and maintenance information



Computer terminal
- Reference of operating information
- Creating daily/monthly reports



APINES
Web server real-time production monitoring
- Operation and Maintenance data



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



SERIES
TP-FX



SERIES
SDE-i3/ SDEW-i3



SERIES
SDE-i3/ SDEW-i3 GORIKI



SERIES
SWE-i3



LINE
ALFAS

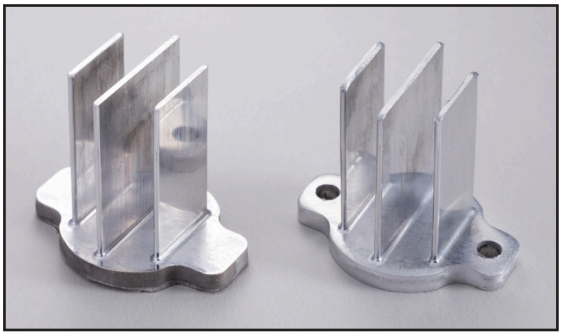


LINE
ARPAS

AMADA

SAMPLE PARTS

Improved forming quality and high-quality processing



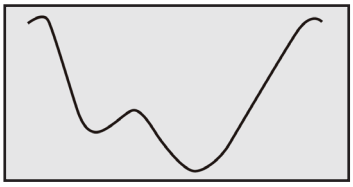
Heat Sink Parts

Machine: SDE-3030i3
Material: Aluminum (JIS A1100) Thickness: 0.31"
Dimension (W × H): 0.04" × 1.28"

This is an example of an aluminum heat sink made by extrusion forging with a servo stamping press machine.

The optimum slide motion improved the material flow during the forming process and reduces the load.

By controlling the processing oil and slide movement, it minimizes the scratches on the parts.



Program Motion

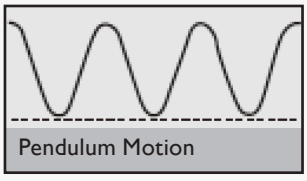
Processing examples with sample workpieces

High-precision processing

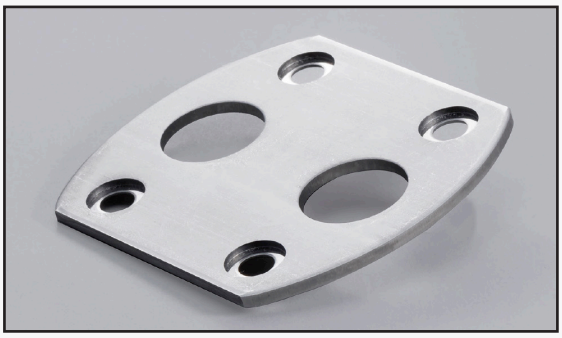
The spot face is formed by sheet metal forging, while the hole diameter is achieved through high-precision processing.



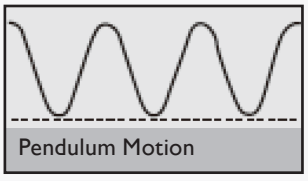
Machine: SDE-2017i3 GORIKI + ALFAS-04HF
Material: Hot Rolled Mild Steel Plates (JIS: SPHC)
Thickness: 0.126"
Dimension (W × H): 3.267" × 1.811"
Processing Load: 66.3 US tons



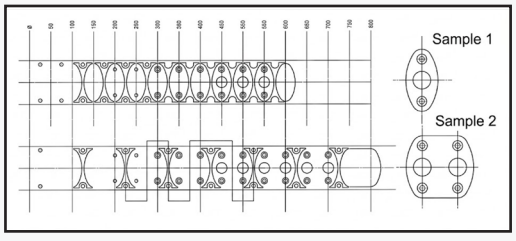
Pendulum Motion



Machine: SDE-2017i3 GORIKI + ALFAS-04HF
Material: Hot Rolled Mild Steel Plates (JIS: SPHC)
Thickness: 0.126"
Dimension (W × H): 3.267" × 3.779"
Processing Load: 96.7 US tons



Pendulum Motion



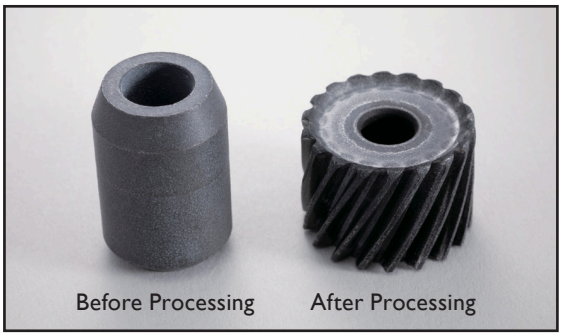
Forming Process

AMADA

SAMPLE PARTS

Processing examples with sample workpieces

Construction method conversion and high-precision processing



Helical Gear

Machine: SDE-2025i3 (SF)
Material: Low Carbon Steel (JIS: S10C)

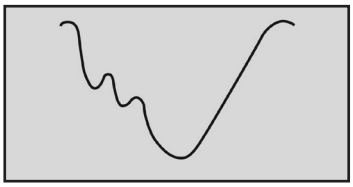
Fluid is injected into the center of the material and formed while the fluid is sealed.

This is an example of forging helical gears using internal pressure.

The amount of fluid inside is controlled by "pulse 1 operation" that moves the slide up and down.

This results in a fluid pulse forging method (liquid sealing pulse forging method).

The pitch accuracy of the tooth profile is higher than that achieved through conventional gear cutting.



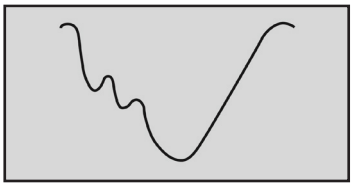
Pulse 1 Motion

Reduction of material thinning with pulse 1 motion

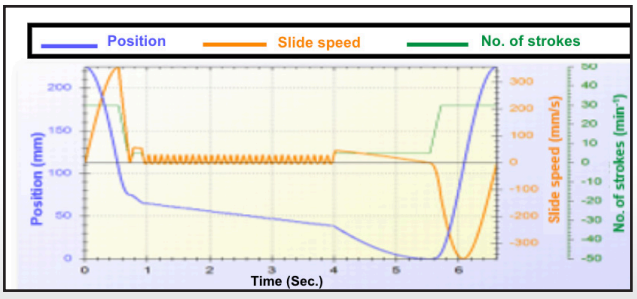


Vent Part for Building

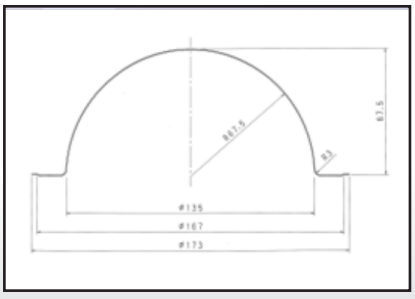
Machine: SDE-2025i3
Material: Stainless Steel (JIS: SUS304)
Thickness: 0.020"
Dimension (W × H): ø7.086" × 2.559"
Processing Load: 40.5 US tons



Pulse 1 Motion

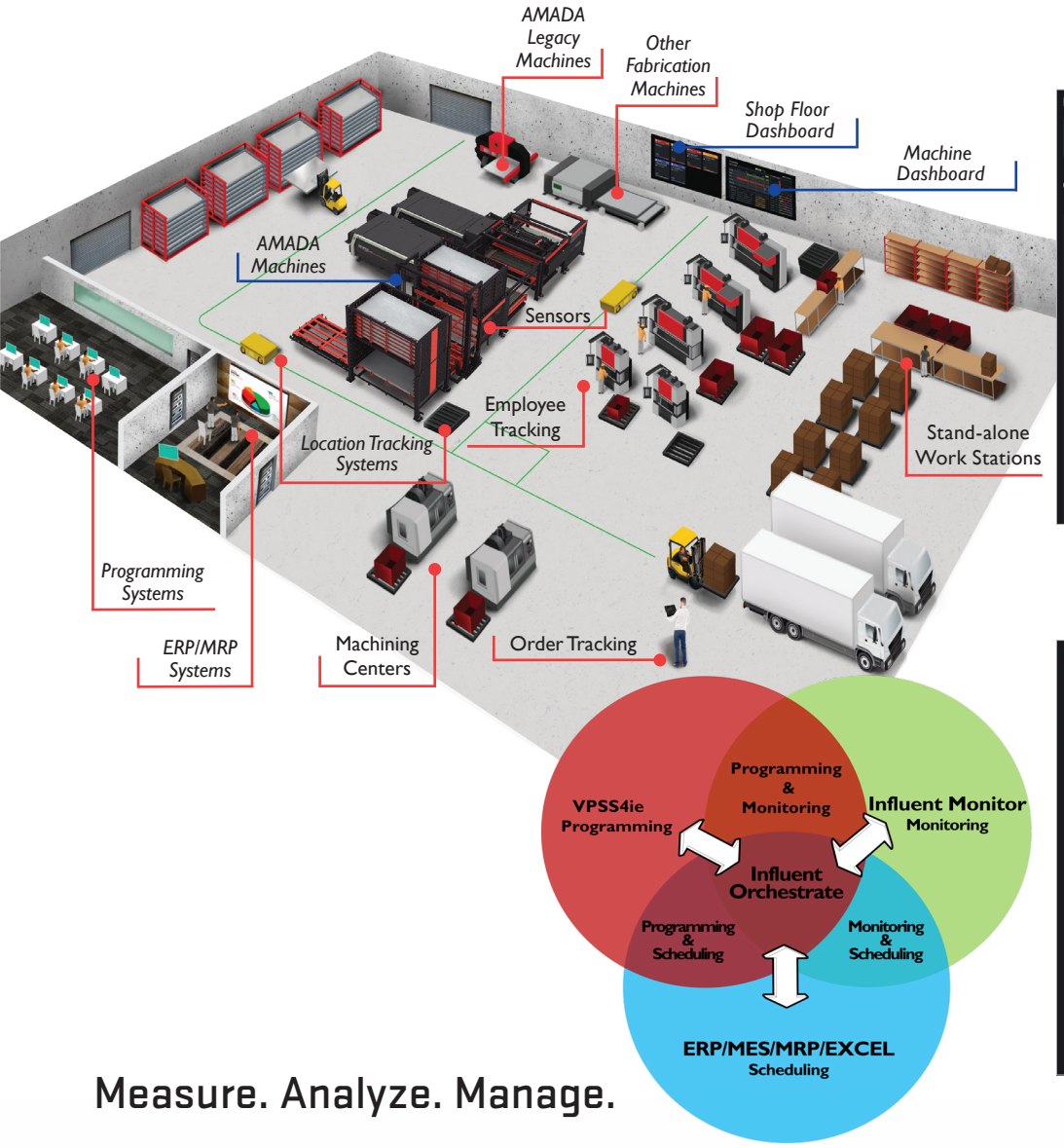


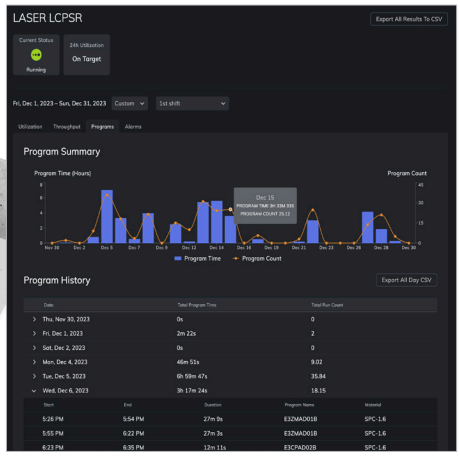
Motion Diagram



Processing Data

The IIoT Software Solution For Every Shop





Filter All Metrics By Shift and Compare Day-to-Day Performance



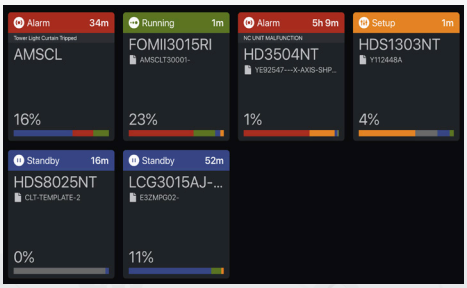
Gain Insight For Greatest Impact

Measure. Analyze. Manage.

Influent by AMADA provides real-time shop floor visibility and production control. Supercharge your digital transformation with detailed production data, advanced analytics, and automated production control.

Monitor - Influent Monitor is the first step in your manufacturing digital transformation. Monitor provides a detailed view of your production process in both real time as well as historical views helping you identify deficiencies and understand where improvement efforts will be most effective. Shop floor dashboards keep everyone informed and on task.

Orchestrate - Influent Orchestrate integrates Influent Monitor machine signals with AMADA's VPSS4ie CAM engine and your ERP/MES/CSV scheduling system. This allows for real JIT scheduling and control over the production queue of each machine. Automatic and accurate system reporting keeps your scheduling system up to date with order completion and any performance issues. Orchestrate your production plan with confidence.







Area, Machine, and Bending Dashboards

AMADA AMERICA, INC.

In the interest of technological progress, we reserve the right to make changes to equipment specifications, design, and illustrations. Workpiece precision and material thickness specifications are dependent on production conditions, material type, and pretreatment.

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