■Dimensions Unit : mm

EG-6013

(L: 2495 x W: 1430 x H: 2669)



■ Machine specifications

Model			EG6013		
			AGRIP(standard)	AMTS(option)	
Total width: L (when pendant is fully open) r			2495		
Total height: H		mm	2669		
Depth: W		mm	1430		
Distance between frames		mm	1010		
Lower table height		mm	947 882		
Table length		mm	1350		
Open height		mm	420	485	
Stroke length		mm	150		
Tonnage capacity		kN	600		
Motor output		kW	(2.9+1.3) x2		
Number of axes		axes	2		
Oil capacity		L	-		
Machine weight		kg	3700		
Approach speed		mm/s	220		
Bending speed		mm/s	25		
Return speed		mm/s	220		
Tilt range (Left-Right)	D-axis	mm	±2.0		
	L-axis	mm	-		
Backgauge measurement length		mm	300		
			(300mm, Max. 550mm when using stopper)		
Backgauge height range		mm	50 ~ 200	115 ~ 265	
Backgauge speed		m/min	L-axis: 60, Y-axis: 60, Z-axis: 20		
Primary supply cable		mm ²	5.5		
Power requirement		kVA	4.2 (200V)		

■AMNC 3i specifications

Display method	18.5" wide multi-touch LCD panel		
Number of axes	8 axes: D1, D2, L1, L2, Y1, Y2, Z1, Z2		
Input method	Angle/Direct/2D/3D mode		
Programming modes	Single stroke or inching (set by program)		
Setting unit mm	D-axis: 0.001, L-axis: 0.01, Z-axis: 0.1		
External connection terminal	2 USB ports		
Memory capacity	Max. 4GB		



For Your Safe Use Be sure to read the manual carefully before use.

 $\bullet \mbox{Use}$ of this product requires safeguard measures to suit your work.

- *Specifications, appearance, and equipment are subject to change without notice by reason of improvement.
 *The official model names of machines and units described in this catalog are EG6013.
- Use these registered model names when you contact the authorities for applying for installation, exporting, or financing.
- *The hyphened spellings EG-6013 is used in some portions of this catalog for sake of readability.
- *The specifications described in this catalog are for the Japanese domestic market.

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Those which are highly improved in productivity and energy saving are stated ECO PRODUCTS by Amada.

E061-HQ01en Jun. 2022



High speed & High accuracy Electric Servo Drive Press Brake







The Pinnacle of Compact Press Brakes

Fast, Precise, Eco-friendly Machine

Dual Servo Press Brake Ideal for Processing Small Precision Parts

The EG series is the world's first bending machine equipped with a dual servo press (DSP) mechanism that meets requirements with an overwhelming specification.

The DSP mechanism and high rigidity provide excellent high speed, high precision and eco-friendly performance.

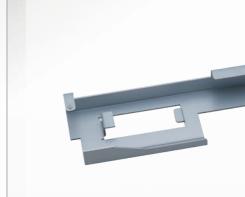
Various angle solutions also help inexperienced workers achieve the target angle without test bending from the first shot.

NC unit is equipped with a newly developed user-centered AMNC 3i for ultimate usability.

It has display functions strengthened to allow operators to check forming information in real time and to contribute to intuitive, easier operation and shorter lead times.

Typical processing samples (Productivity comparison with conventional models)





Material: SECC 1.6mm

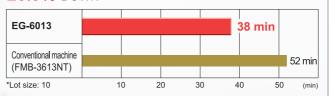
Size: 250.0 x 162.3mm

(FMB-3613NT)

Material: SECC 1.6mm

Size: 153.4 x 321.4mm

Process time comparison 26.9% DOWN







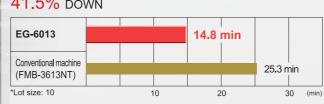
Main part Material: SECC 1.6mm Size: 375.1 x 443.9mm Sub part Material: SECC 1.6mm Size: 161.7 x 210.1mm

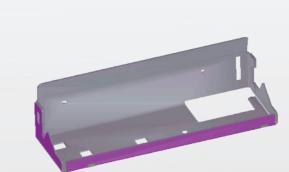


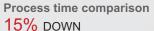


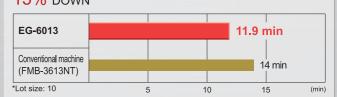
Process time comparison

41.5% DOWN









High speed & High accuracy **Electric Servo Drive Press Brake**

EG 6013

EG-6013 New Technologies

Easy Operation

AMNC 3i

Adopts a multiple touch LCD screen and incorporates a user-centered design philosophy. Operators can operate the machine intuitively from the touch screen as when they do with a smart phone and with greater ease. The display size is increased from a conventional horizontal 15 inch display to a vertical 18.5 inch wide display. Operators can check programs and necessary bending information at a glance. The augmented display functions allow forming information to be displayed in real time.









telligent 知能化 Integrated 融合 EG 6013 11 9 F 1> .

High speed and high accuracy bending of small parts

Maximum productivity with minimum energy

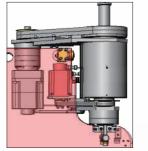
New hybrid drive system

Two servo motors; one for high power processing and the other for high speed stroke, provide faster cycle times, results in more parts per hour, and even energy saving.

Speed/Stroke length comparison

			EG-6013	Convetional machine (FMB-3613		
	Approach speed	mm/s	220	100		
	Bending speed	mm/s	25	20		
	Return speed	mm/s	220	100		

L-axis speed: 60m/min



New backgauge system

A new backgauge system is installed to accomplish still higher accuracy and productivity. The L-axis repeatability is ±0.003mm.

Measurement length: 300mm (Max. 600mm when using 300mm stopper)

Y-axis speed: 60m/min



Z-axis speed: 20m/min Stroke length: 150mm

Travel range: 50 to 200mm (Punch holder spec.) 115 to 265mm (AMTS spec.)

8 New high rigidity frame

Pursue the optium shape by structural analysis. Higher rigidity frame enbles to perform thicker thickness process, coining bend and improvement of the longiudinal accuracy.

Solutions for stable processing without test bending

Angle sensor (Option)

The Bi-S angle sensors help to achieve the desired bend angle from the first part without test bending.

Bi-S angle sensor (contact type)

- Applicable angles: 80° to 165°
- Applicable material thicknesses:1 to 6mm
- · Applicable material types: Mild steel, stainless steel, aluminum
- Applicable V-openings: 6 to 40mm (AFH)
 - 6 to 25mm (AMTS)
- Number of sensor axes: Auto 1axis/2 axes

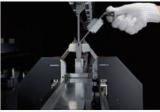
Porce control

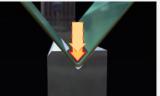
Target angle can be obtained automatically by controlling the table by monitoring the pressure, not the D value position, and by setting the force to

Stable and high quality processing is achieved and the impacts of plate thickness and grain is reduced.

Continue to the continue of the continue of

TDS reads variance of material thickness and compensates depth position automatically for stable and correct bending.





Force control

Other functions (including options)

Option

LED lights (front and rear)

LED lights are installed at the front and rear of the upper table. They illuminate the hands of the operator brightly so that the operator can work more efficiently.



Enable to use as a temporary storage rack

completed product, which provides efficient

of blank material for small bending and

bending work. Height and rotation

adjustments are available. *Compatible with operation chair

Side table

Front table

A work table that can be adjusted to the tooling height. It is also equipped with a side stopper to support small part processing. It can be used with photoelectric safty device.

Height adjustment block

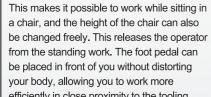
Base blocks for adjusting the working height are available for large operators and customers who mainly work standing.



a chair, and the height of the chair can also be changed freely. This releases the operator from the standing work. The foot pedal can be placed in front of you without distorting your body, allowing you to work more efficiently in close proximity to the tooling.



Operation chair





Safeguarding devices

- New laser guard device Ensures that the operator can work safely while maintaining productivity.
- 2 Side guard (without interlock) Prevents access through the side gap.
- Rear quard Prevents access from rear.
- 4 Emergency stop buttons Located on the control pendant.
- (Interlock (OFF mode) The mode selector keyswitch has an OFF mode. When the OFF mode is selected, all axis movements stop.











AGRIP

AMADA standard holders for punches with tapered grooves to prevent the punch from falling.

AGRIP-M: Manual type AGRIP-A: Hydraulic drive type O



AMADA modular tooling system O (AMTS)

The clamp pin in the tool holder is hydraulically operated to clamp AMTS tools with one touch. The AMTS tools can be installed in any position and need not be aligned. The safety click prevents the punch from falling and firmly secures the punch.



Reversible 1V die holders

Reduce the time to change and setup dies. Prevent sectionalized dies from falling and shifting and obviate the need for aligning the dies each time they are changed.



Hydraulic 1V die holders

Clamp sectionalized 1V dies and AFH dies hydraulically and automatically. Can clamp and unclamp the dies with one touch. The clamp plates are slit to firmly secure thin sectionalized dies.



Backgauge fingers

- Step finger
- 90mm support
- **6** 300mm stopper

Special backgauge fingers

- Work sensor finger (standard)
- Work sensor finger (stepped)
- **3** W clamp finger



Network system diagram

AMADA processes digital manufacturing based on the core of a virtual prototype simulation system (VPSS). Processing data are created in the office and saved in a data server. These data can be called from the data server through a network and used on the shop floor.

