



SOLUTION

EGB 6013 ARc

SMART, FASTER ROBOTIC PRODUCTION



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SMART, FASTER ROBOTIC PRODUCTION

SMART IN PRODUCTION OF SMALL AND COMPLEX COMPONENTS

The new EGB-6013ARce robotic bending cell is the natural evolution of the compact EG-6013AR, with expanded capacity and smaller footprint.

Equipped with the new EGB-6013e servo-electric bending press brake, this new bending cell specialises in the production of small, complex components, but with the flexibility to also produce parts up to 550x300mm.

The perfect solution to increase the production output of difficult-to-produce parts.

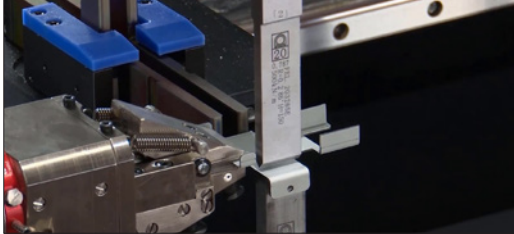
The easy effective operation of the robotic cell gives maximum production output with minimum operator input. By using the smart functions such as Tablet HMI and automated teaching, the need for a skilled operator is removed.

In addition, faster part handling, an increased tool library, greater loading capacity and a larger range of grippers give increased flexibility to this machine.



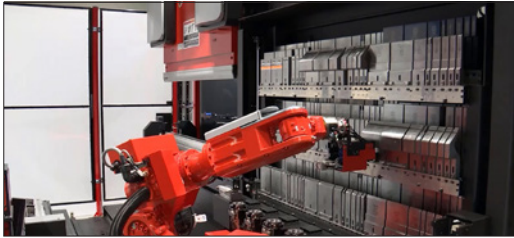
Photograph may include optional equipment

KEY FEATURES



Automatic production

It is designed for the fully automatic production of up to 6 different components, with constant and high quality output and short cycle time, thanks to its dedicated and compact bending robot.



Ready for any batch size

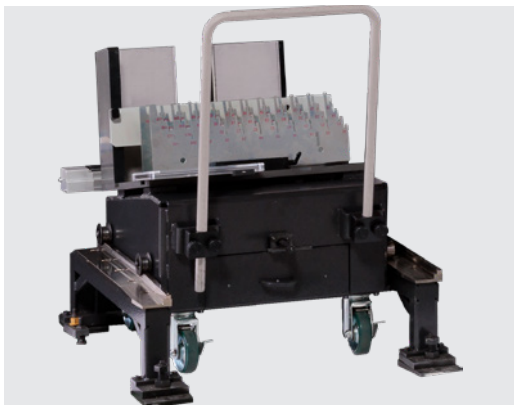
A full optional bending cell with automatic teaching, Automatic Tool Changer (ATC), Automatic Gripper Changer (AGC), impressively fast and easy to use, with automatic offline programming. Batch size is no longer an issue.



Reduced footprint

A smaller footprint with 50% more load/unload capacity, 3 more grippers and nearly 40% more tooling compared to the previous version.

MAXIMISED UPTIME, AMAZING OUTPUT



Offline setup of the loading area

Prepare for production while the robot is producing with the new mobile loading cart.



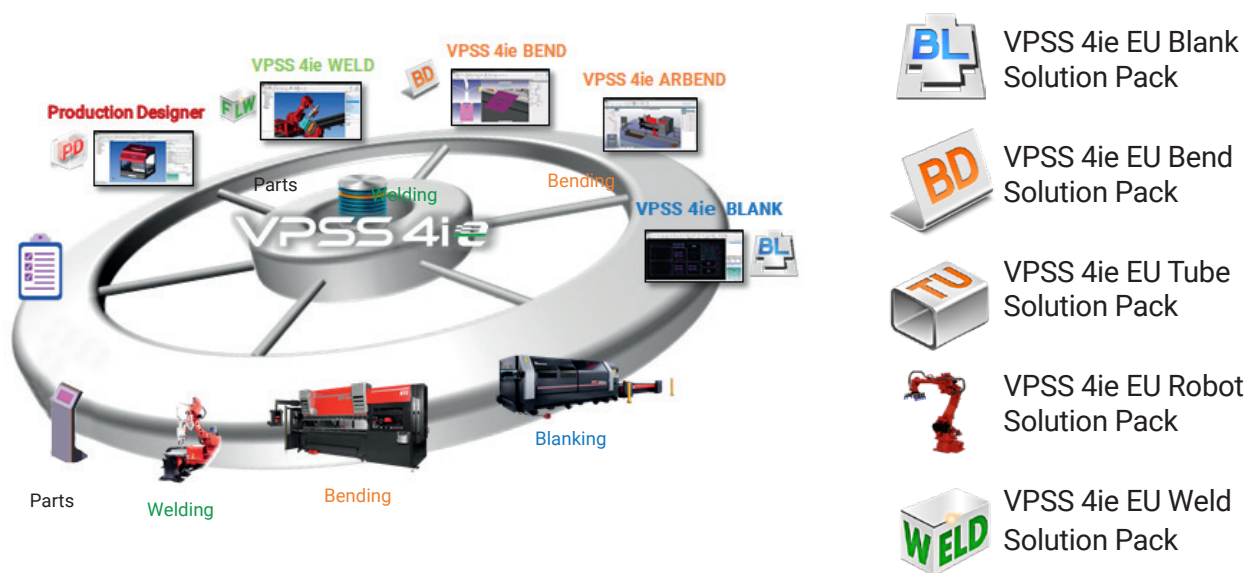
On-the-fly production collection

The parts produced can be collected from the conveyor itself or in the boxes placed outside the fence, thanks to the continuous operation.

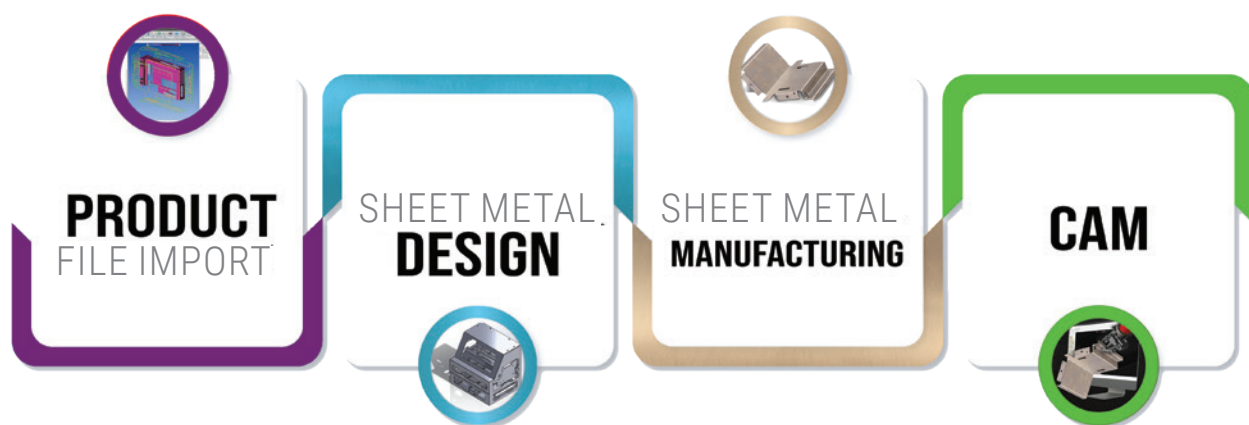
ADVANCED SHEET METAL ENGINEERING SYSTEM

AMADA strongly believes that innovative software is the core of productive sheet metal processing. With decades of experience in the sheet metal industry and by working together with our customers, we have developed easy to use software solutions designed to meet the industry requirements. AMADA software solutions increase customer productivity through integrated development with AMADA machines and an emphasis on virtual prototyping and simulation systems.

Our VPSS 4ie CAD/CAM software helps you virtually simulate the production process, identify potential issues and make adjustments before manufacturing. With our solutions, you can maximise quality and increase efficiency whilst minimising waste. The automated and optimised software can also be used by less experienced operators.

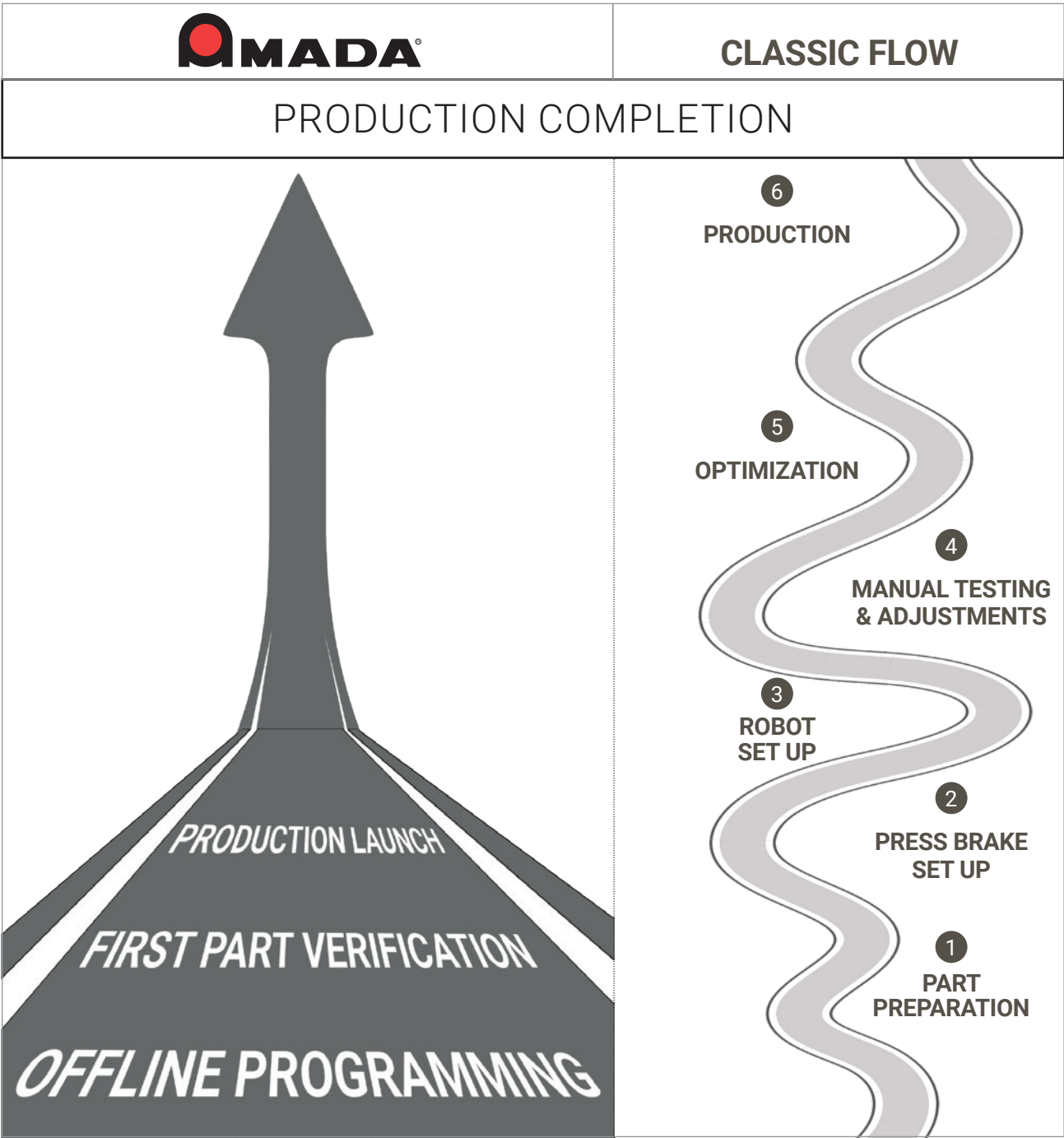


VPSS 4ie Suite, from design to production-ready in four simple steps



STREAMLINING THE PRODUCTION PREPARATION

AMADA has significantly enhanced the efficiency of the production preparation phase by introducing a fully automated workflow—including automatic offline programming and automated check-runs—that minimises manual intervention and enables fast, optimised setups. These innovations reduce cycle times, cut lead times, and improve reliability, delivering ready-to-run programs with minimal effort and peak productivity.



EGB 6013 ARc

STANDARD EQUIPMENT AND FUNCTIONS



Press brake EGB-6013e

The new EGB-6013e is an all-electric press brake for high speed, accuracy and repeatability. This oil-free solution reduces the maintenance at minimum and reflects the AMADA's commitment to protecting the environment.



Angle detection

The EGB-ARce is equipped with the new Bi-S II bend indicator that allows for inline angle adjustment. The device is up to 85% faster than the previous model.



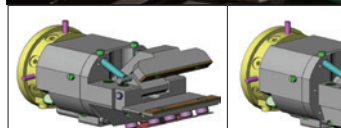
Bending robot

The 6-axis and external traveling track of the new bending robot are significantly faster than the previous model, delivering smoother movements and achieving an optimized cycle time for unparalleled efficiency.

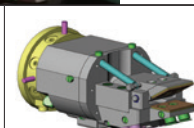


Robot grippers

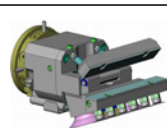
Grippers designed to make the most of the work envelope of the robot.



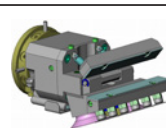
Normal



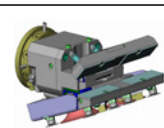
Micro



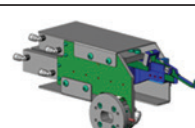
Thick 4.5 (option)



Thick 6.0 (option)



Wide (option)

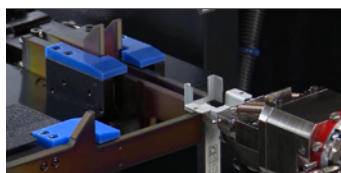


Tool gripper



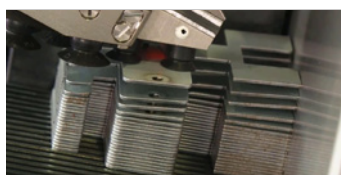
Automatic teaching

The EGB-ARce features the Z-Sensing function to automatically adjust the height positioning of the part over the die.



3-Finger Backgauge

The machine is equipped with three independent fingers to adjust the position of the part for depth and left/right thanks to the side gauge.



Active Magnet Floater

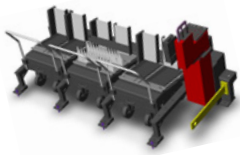
The loader is equipped with an automatic magnet floater to separate the parts during the pickup phase for a smooth and reliable bending process.

STANDARD EQUIPMENT AND FUNCTIONS



Hydraulic holders

The press brake is equipped with AMTS III, a hydraulic solution compatible with the AMADA Modular Tooling System.



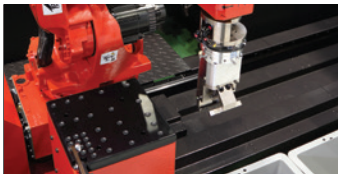
Mobile loading carts

The loading capacity has been increased by 50% compared to the previous model, by having mobile carts, allow for offline setup.



Vertical loading

The vertical loading device is used for special parts that cannot be stacked flat. The capacity has been increase of almost 20% compared to the previous version.



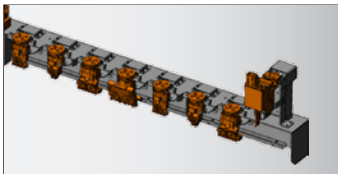
Double sheet detector and repositioner

The two devices support the bending robot during the process to ensure a reliable bending cycle for complex parts.



Unloading conveyor

The new unloading conveyor is wider and has two levels to double the capacity compared to the previous model. The conveyor can stop when full to avoid scratching the parts or to drop them into the box placed outside the fence.



Automatic Gripper Changer (AGC)

The AGC can store up to 8 grippers, 7 for bending and 1 for tool change. The robot automatically identifies the gripper and, if necessary, changes it before the cycle.



Automatic Tool Changer (ATC)

The ATC has been increased in size allowing to store up to 27 different tool types. It is an essential device for planning parts with different tools layout.

MACHINE DIMENSIONS

EGB-6013ARce		
Dimensions (L x W x H)	mm	4620 x 3865 x 2630



MACHINE SPECIFICATIONS

PRESS BRAKE		EGB-6013ARce
CNC Type		AMNC 4ie
Press Capacity	kN	600
Max. bending length	mm	1350
Open height	mm	585
Stroke	mm	150
C-throat	mm	230
Oil capacity	l	0*
Approach speed	mm/s	250
Bending speed	mm/s	25
Return speed	mm/s	250
Num. of Axis		9

*except for AMTS III S clamping system

ATC SPECIFICATIONS

ATC	
Tool holder	AMTS III
Max. number of tool types	27

AGC SPECIFICATIONS

AGC	
Max. gripper capacity	8*

*one slot reserved for the Tool gripper

ROBOT SPECIFICATIONS

ROBOT		
Robot Manufacturer / Model		Yaskawa EGBRBT010E
Robot Payload (including gripper)	kg	10
Travel axis length	m	3.2
Loading areas		3
Loading max. position per area		2
Unloading areas		2 on Belt conveyor
Workpiece min dimensions	mm	80 x 30
Workpiece max dimensions	mm	400 x 400 or 550 x 300
Thickness range	mm	0.5 – 6.0

Specifications, appearance, and equipment are subject to change without notice by reason of improvement.



For Your Safe Use

Be sure to read the operator's manual carefully before use.

Use of this product requires hazard prevention measures to suit your work.

- Hazard prevention measures are removed in the photos used in this catalogue.

- Safety devices recommended by AMADA are available as options for your use in taking appropriate safeguard measures to suit the parts you produce.

The official model name of machine described in this catalogue is EG6013ARce. Use the registered model name when you contact the authorities for applying for installation, exporting, or financing. The hyphenated spelling EG-6013ARce is used in some portions of this catalogue for ease of readability.



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