SOLUTION

EGB 1303 ARs e

SET AND FORGET

AMADA

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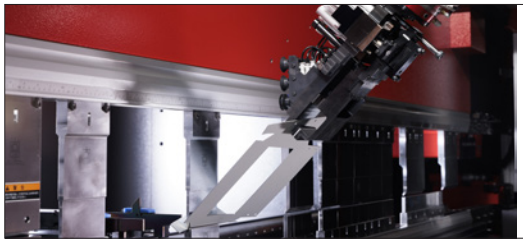
THE REVOLUTION OF BENDING AUTOMATION

EGB-1303ARse – the pinnacle of precision and efficiency in bending technology. This electric bending cell is designed to be the easiest to use, offering unparalleled speed and accuracy. It features automatic check-run function, allowing seamless execution of new programs. The smart loading device, coupled with a double loading camera, simplifies part setup and optimises cycle time.

Additionally, the automatic gripper changer (AGC) and automatic tool changer (ATC) ensure uninterrupted operations, while the optional unloading conveyor or pallet changer provide high unloading capacity for continuous production. Elevate your bending operations with this cutting-edge technology, where ease of use meets exceptional performance.

Photograph may include optional equipment

KEY FEATURES

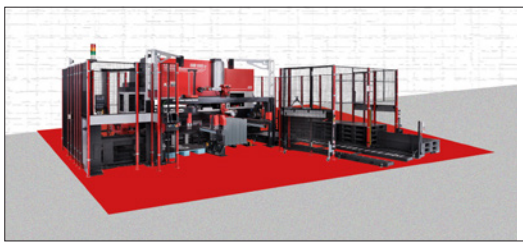


Automatic production

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

Ready for any batch size

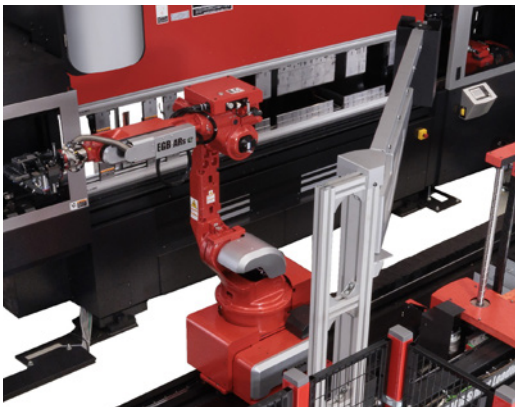
A full optional bending cell with automatic teaching, Automatic Tool Changer (ATC), Automatic Gripper Changer (AGC), Loading camera and Bend indicator, impressively fast and easy to use, with automatic offline programming. Batch size is no longer an issue.



Compact footprint

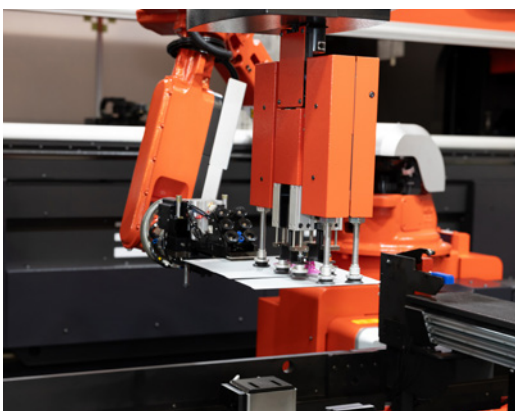
An optimised layout which results in a compact footprint, regardless to the wide part size range that can be processed.

MAXIMISED UPTIME, AMAZING OUTPUT



Effortless setup, instant production

Features like the double loading camera, loading robot, and automated unloading, along with the Automatic Tool Changer and Automatic Gripper Changer, create a fully automated machine where setup operations are extremely fast.



Ease of use

The user-friendly design of the EGB-ARse eliminates the need for specialised operators, allowing less experienced operators to fully utilise the machine's capabilities.

EGB 1303 ARs e

STANDARD EQUIPMENT AND FUNCTIONS

Press brake EGB-1303ATCe

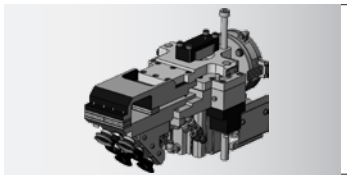
The new EGB-1303ATCe is an all-electric press brake for high speed, accuracy and repeatability. This oil-free solution reduces the maintenance to a minimum and reflects the AMADA's commitment to protecting the environment.

Angle detection

The EGB-ARse 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.

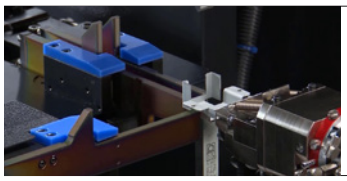
Bending robot

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 optimised cycle time for unparalleled efficiency.



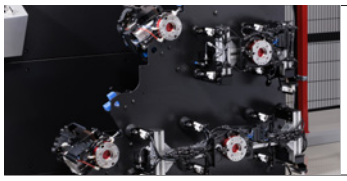
Robot grippers

The standard configuration includes combination and vacuum grippers. Additionally, several other gripper options are available, including combination, mechanical, vacuum, and sliding grippers. These options ensure flexibility and optimise cycle time for various applications.



3-Finger Backgauge

The machine features three independently controlled fingers for accurate part placement—both in longitudinal and lateral directions—giving ultimate flexibility when gauging complex parts.



Automatic Gripper Changer (AGC)

The Automatic Gripper Changer (AGC) is a device designed to support the bending robot during gripper change operations. The gripper is automatically identified through its ID and can be changed either before the bending process or during the operation, as requested by the offline program.

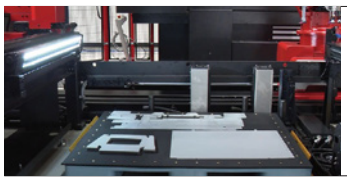
Automatic Tool Changer (ATC)

The Automatic Tool Changer (ATC) is responsible for loading and unloading bending tools as required by the offline program. It operates with exceptional speed and accuracy, eliminating the need for check-run operations for repeated programs and maintaining the conditions necessary for a reliable bending cycle.

AMADA Smart Loading Device

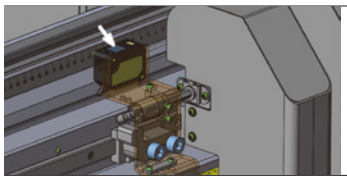
It is an independent device designed to increase efficiency in loading part blanks. It offers high loading capacity, supports high-mix, low-volume production, and ensures shorter cycle times.

STANDARD EQUIPMENT AND FUNCTIONS



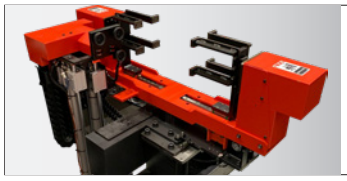
Loading Camera

The loading device is equipped with two Loading Cameras, one for each area, to automatically recognise the parts to be processed. This innovative solution allows for offline setup of parts on the pallet, significantly reducing unproductive times and enhancing ergonomics for the operator.



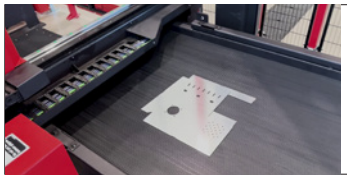
Automatic teaching

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



Regripping device

The regripping device is designed to enhance the efficiency of the bending robot during complex bending sequences. When a new handling position is required, the device securely holds the part and, if necessary, rotates it 180° to facilitate and streamline the regripping operation.



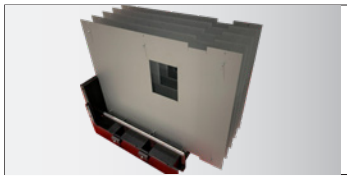
Double sheet table

This device collects parts in cases of double thickness pickup, allowing the robot to immediately continue production for continuous operation. The unprocessed parts can then be placed back in the loading area to complete the scheduled production.

Hydraulic holders

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

OPTIONAL EQUIPMENT



Vertical loading

The vertical loading device is designed for special parts that cannot be stacked flat, such as those formed or equipped with PEM fasteners. This device ensures efficient handling and optimal organization of these unique components.

Unloading options

The EGB-ARse offers several unloading options, including pallet, conveyor, and pallet changer. The selection of the appropriate unloading method depends on production needs and the required level of production autonomy.

EGB 1303 ARs

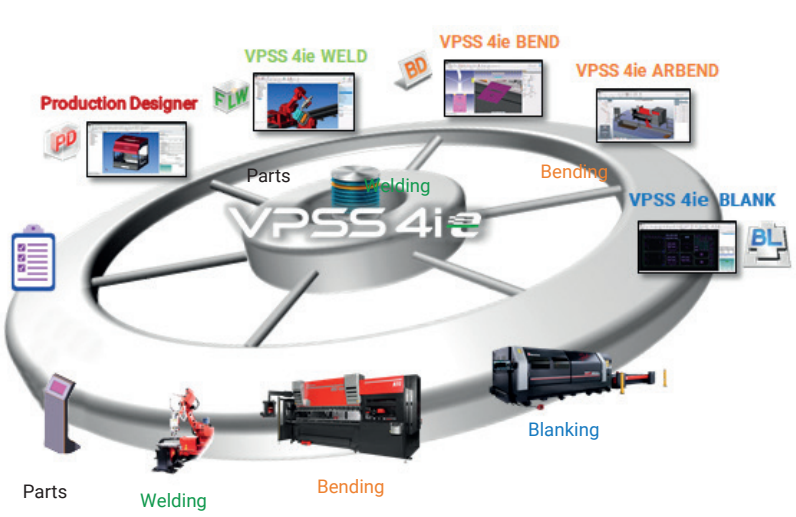
SOFTWARE

VPSS 4ie

ADVANCED SHEET METAL ENGINEERING SYSTEM

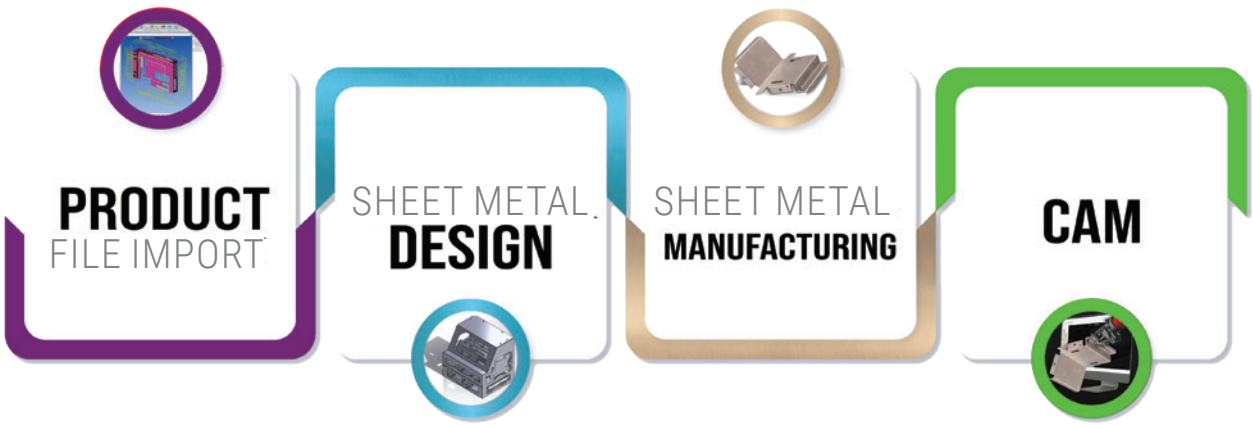
AMADA strongly believes that innovative software is the core of productive sheet metal processing. With decades of experience in the sheet metal industry and by working together with our customers, we have developed easy to use software solutions designed to meet the industry requirements. AMADA software 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.



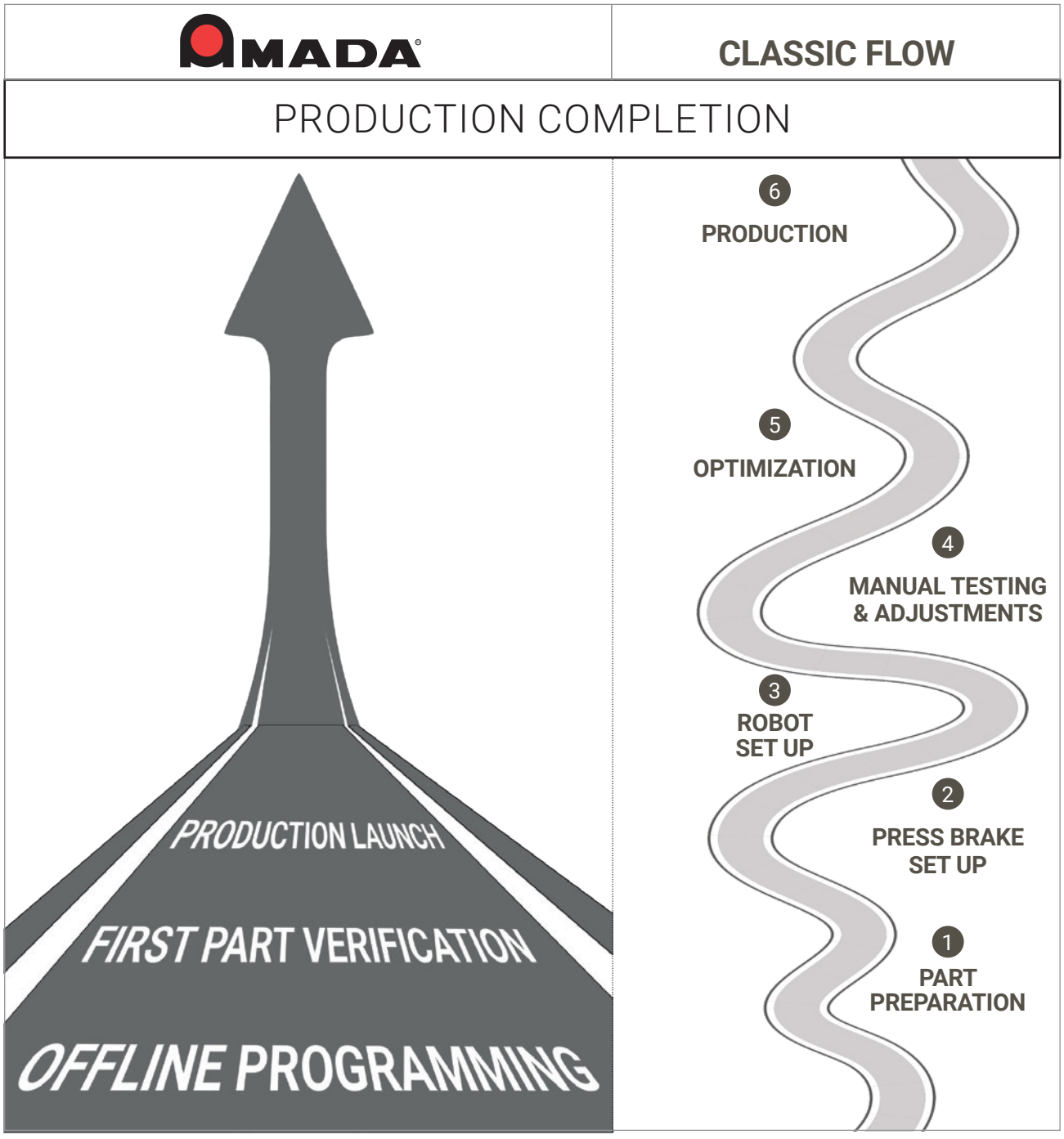
- VPSS 4ie EU Blank Solution Pack
- VPSS 4ie EU Bend Solution Pack
- VPSS 4ie EU Tube Solution Pack
- VPSS 4ie EU Robot Solution Pack
- VPSS 4ie EU Weld Solution Pack

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.

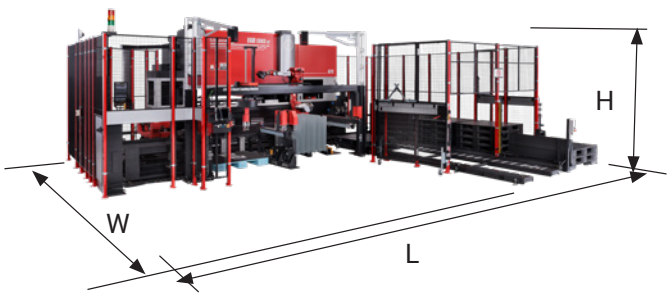


MACHINE DIMENSIONS

Unit: mm

Picture of EGB-ARse		
Dimensions* (L x W x H)	mm	9760 x 5800 x 3150

** reference for 6.4m track*



MACHINE SPECIFICATIONS

PRESS BRAKE		EGB-1303ARse
CNC Type		AMNC 4ie
Press Capacity	kN	1300
Max. bending length	mm	3050
Open height	mm	620
Stroke	mm	250
C-throat	mm	450
Oil capacity	l	0*
Approach speed	mm/s	250
Bending speed	mm/s	25
Return speed	mm/s	250
Num. of Axis		14

** except for AMTS III S clamping system*

ATC SPECIFICATIONS

ATC	
Num. of Punch stockers (max optional)	15 (18)
Num. of Die stockers (max optional)	18 (25)

AGC SPECIFICATIONS

AGC	
Max. gripper capacity	9

ROBOT SPECIFICATIONS

ROBOT		
Robot Manufacturer / Model		Yaskawa EGBRBT020E
Robot Payload (including gripper)	kg	20
Travel axis length	m	5.0 / 6.4
Loading areas		2
Loading max. position per area		10
Unloading areas		Depending on layout
Workpiece min dimensions	mm	150 x 90
Workpiece max dimensions	mm	1000 x 800 or 1200 x 500
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 EG1303ARse. Use the registered model name when you contact the authorities for applying for installation, exporting, or financing. The hyphened spelling EG-1303ARse is used in some portions of this catalogue for ease of readability.

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