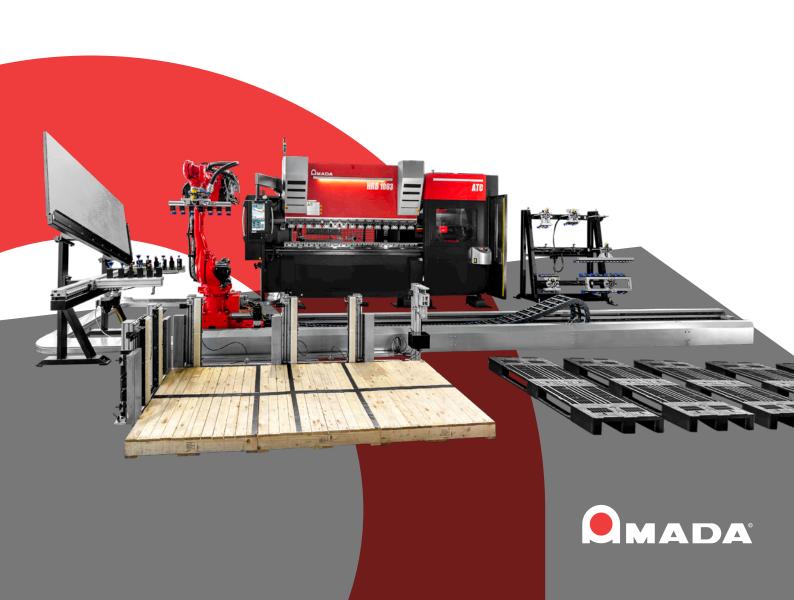


SOLUTION

RBR SERIES

RETROFITTABLE BENDING ROBOT SOLUTION





RETROFITTABLE BENDING ROBOT SOLUTION

HRB, HRB-ATC series

CONFIGURABLE AND MODULAR SOLUTION FOR AUTOMATIC BENDING PROCESS

The RBR is a scalable bending cell based on the combination of the press brake HRB and RBR robot solution.

Available in several sizes, from 50 tonnes 2 metres up to 220 tonnes 4 metres, can be combined with 50 or 200 Kg robot payload.

The HRB 100 and 220 tonnes are also available with the ATC unit, the unique device capable of automatically changing AFH-ATC tools. The auto-crowning device, to improve the longitudinal accuracy, and the bending indicator Bi-S, for in-cycle angle adjustment, complete the range of options for fully automatic and accurate production.

The RBR has been designed to ensure a long production run, accuracy and simplicity of use combined with a fast cycle time to boost productivity at the highest levels.

FULLY AUTOMATIC RETROFITTABLE BENDING CELL



MANUAL & ROBOT MODE

It is possible to switch, safely and simply, from automatic operation (with the robot) to the manual operation of the press brake (with the operator).



VPSS 3i ARBEND

The next step is in offline bending CAM solutions. Conceived from the actual AMADA bending solution experience, VPSS 3i ARBEND is the perfect match for a very simple all-in-one user interface and high-level automatic bending algorithms. VPSS 3i ARBEND allows offline auto-generation of the bending sequence, as well as tooling for single and multiple parts.



FULLY AUTOMATED

The bending cell is equipped with all the necessary devices to ensure the highest level of automation, such as:

- Automatic tool changer
- · Automatic gripper changer
- Motorised regripping

The schedule of the production is then made through the Cell Manager, the software that takes care to centralise the management of both the press brake and the robot.

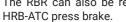
RBR SYSTEM CONFIGURATION



Robot

It is a fast, accurate and repeatable 6-axis robot on linear track, available with 50 and 200 Kg payload.

The RBR can also be retrofitted to an existing HRB or





Grippers

Grippers are available through a wide range of predefined solutions. It is also possible to build custom solution to fit specific parts when needed.



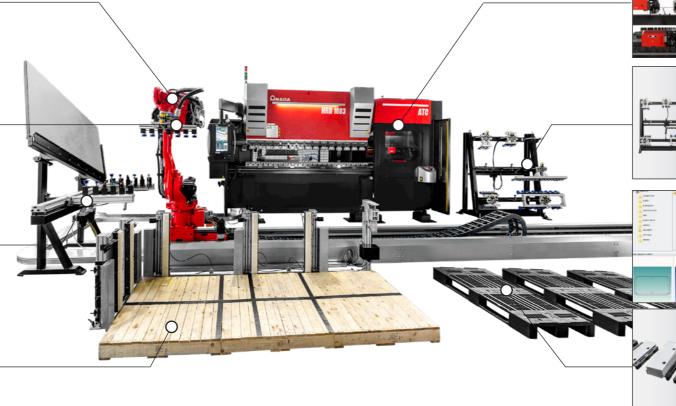
Centring and motorised regripping stations

Centring station conveys the part in a "reference position". Motorised regripping allows for the robot to re-grip the part in a different position and orientation.



Loading area with double sheet detector

Designed for pallet loading, which can be fitted with up to 6 stacks. It is equipped with magnets, air blow and brushes* for effective sheet separation.



Automatic Tool Changer (ATC)

The automatic tool changer allows non-skilled setup, and it holds many different tool types to cover a wide range of bending requirements. In addition, the accuracy of the automatic tool layout drastically reduces the need for manual teaching operations.



Cell Manager

Cell Manager is the management software to handle the production of the complete bending cell.



The wide unloading area allows placing of 6 Euro pallets. Other unloading pallet configurations are also available up to a max of 3000×1500 , depending on the selected layout.

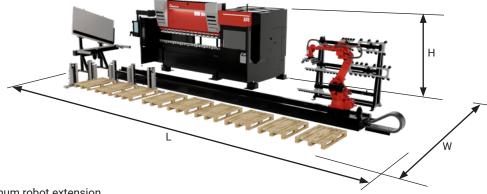
*option

DIMENSIONS *

Unit : mm

HRB-1003ATC R + RBR-5010 (L) 14860 x (W) 6450 x (H) 4000

HRB-2204ATCR + RBR-20012 (L) 20180 x (W) 9520 x (H) 4650



*H dimension is referred to maximum robot extension

HRB-ATC + RBR SPECIFICATIONS

				HRB-1003ATCR + RBR-5010	HRB-2204ATCR + RBR-20012
Press brake				HRB, HRB-ATC	
Axes composition				6 axes + 1 travel	
Part specification	Payload (including gripper)		kg	50	200
	Max	Workpiece size	mm	2000 x 1000	3000 x 1500
	Min	Workpiece size	mm	300 x 200	300 x 200
Travel axis	Stroke length		m	10	12
Loading	Number of position			1	
	Number of stack			Max. 6	
	Stack height max		mm	500	
Unloading	Number of position			Based on layout configuration	
	Unloading method			Pallet	

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



For your safe use

Be sure to read the user manual carefully before use.

When using this product, appropriate personal protection equipment must be used.

The use of this product requires appropriate risk prevention measures depending on the type of work to be performed. The safety devices recommended by AMADA are supplied as standard for proper use with regard to EC conformity.

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

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