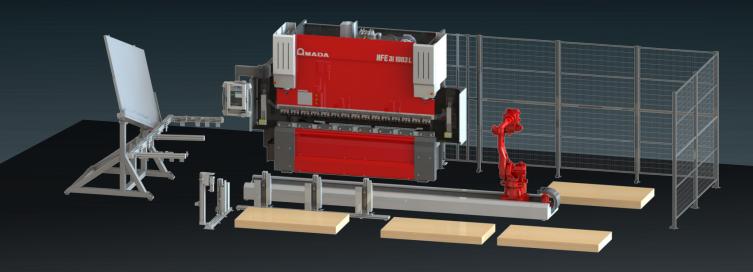
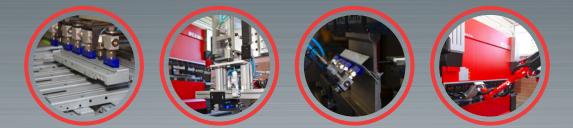
SOLUTION

ABS-R



AUTOMATIC BENDING SYSTEM - RETROFITTABLE





ABS-R

AUTOMATIC BENDING SYSTEM - RETROFITTABLE

HFE3i | HFE-M2 | HD-NT | HFP-NT

CONFIGURABLE AND MODULAR SOLUTION FOR AUTOMATIC BENDING PROCESS

ABS-R is a scalable and modular solution for reliability and simplicity based on a six axis robot and an auxiliary linear axis. The customized configuration is realized and specifically designed on customer's own production, being therefore able to grow with customer's needs.

It can combines different robot payload with HFE3i, HFE-M2, HD-NT & HFP-NT press-brakes.

ABS-R has been designed to assure maximum flexibility and the optimization of the cycle time, thus providing maximum level performances with a competitive price.

HIGH FLEXIBILITY & MODULARITY

MANUAL & ROBOT MODE

It is possible to switch from automatic operation (with robot) to the manual operation of the press brake (with operator) in a totally safe and simple way.

The ABS-R bending software allows easy offline programming of bending sequence, tool setup and all cycle phases. The optimal robot trajectories and press brake program are generated automatically and it's possible to check the simulation. Programs are opened from robot and press brake through AMADA database.

CUSTOMIZED SOLUTIONS

ABS-R can satisfy customer's needs by developing customized solutions or adding cell devices. It is possible to integrate unloading devices (e.g. conveyors, pallet changers), automatic

loading devices, automatic gripper changers and special grippers. In addition customized cycles can be implemented.

The integration with several models of press brakes (from 1.2 up to 4m), the customization of the cell layout as well as the retrofit installation with an existing press, offer a really wide range of application.

ABS-R SYSTEM CONFIGURATION

ROBOT & PRESS BRAKE

Different types of robot with different payload are available in combination with HFE3i, HFE-M2, HD-NT and HPF-NT press brakes.

ABS-R solution can be provided as a complete new system or as a retrofit for existing Press Brake.

CENTERING STATION & REGRIPPING STATION

Centering Station conveys the part in a "reference position". Regripping is used to allow robot gripping the part in

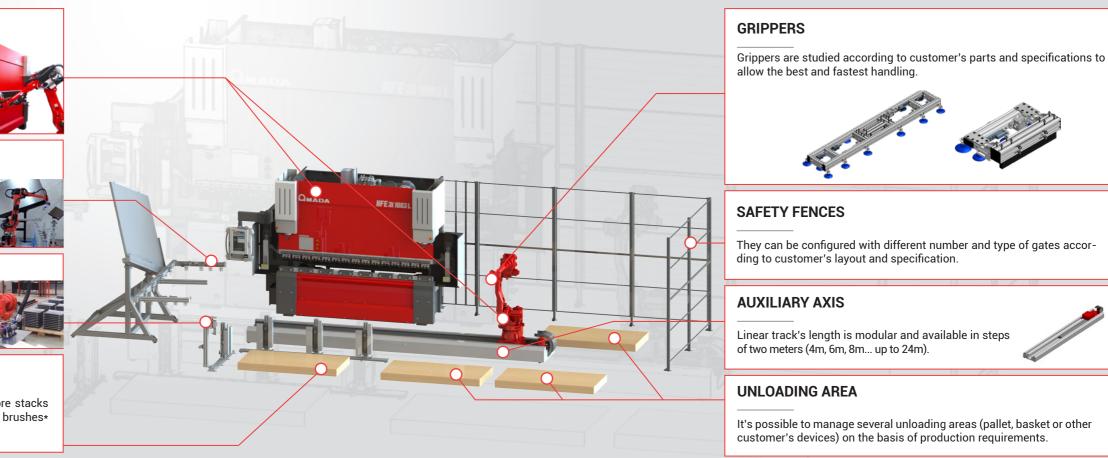
a different position.

DOUBLE SHEET DETECTOR

It ensures the picking of a single sheet after loading phase. In case of double parts, robot can drop off parts in a specific area and start with a new cycle.

LOADING AREA

Designed for pallet loading, which can be fit with one or more stacks (maximum 6 stacks). It is equipped with magnets, air blow and brushes* for effective sheet separation. *option



ABS-R BENDING SOFTWARE





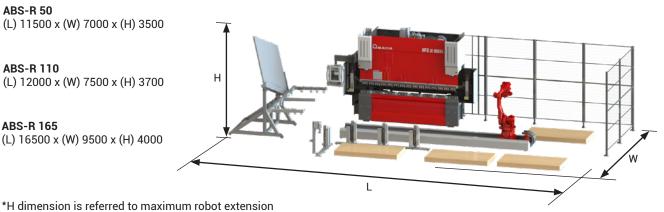
DIMENSIONS *

Unit : mm

ABS-R 50 (L) 11500 x (W) 7000 x (H) 3500

ABS-R 110 (L) 12000 x (W) 7500 x (H) 3700

ABS-R 165 (L) 16500 x (W) 9500 x (H) 4000



ABS-R SPECIFICATIONS

				ABS-R 50	ABS-R 110	ABS-R 165
Axes composition				6 axes + 1 travel axis		
Part specification*	Payload (including gripper)		kg	50	110	165
	Panel	Workpiece size	mm	2000 x 1000	3500 x 1000	3500 x 1500
		Max. workpiece mass	kg	23	30	40
	Rib	Workpiece size	mm	3000 x 500	4000 x 700	4000 x 1000
		Max. workpiece mass	kg	11	20	31
Travel axis	Stroke length		m	From 6 up to 24	From 8 up to 24	From 8 up to 24
Loading	Number of position			Configurable, automatic loading option		
	Number of stack			Max. 6 (for each Loading area)		
	Stacking height		mm	500 (possible to customize)		
Unloading	Number of position			Configurable, conveyor and pallet changer option		
	Unloading method			horizontal and vertical		

*Parts dimensions are not binding and could be increased (to be confirmed with feasibility study) Other robot sizes are available on request

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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