



bending to better performance



Multi Cell

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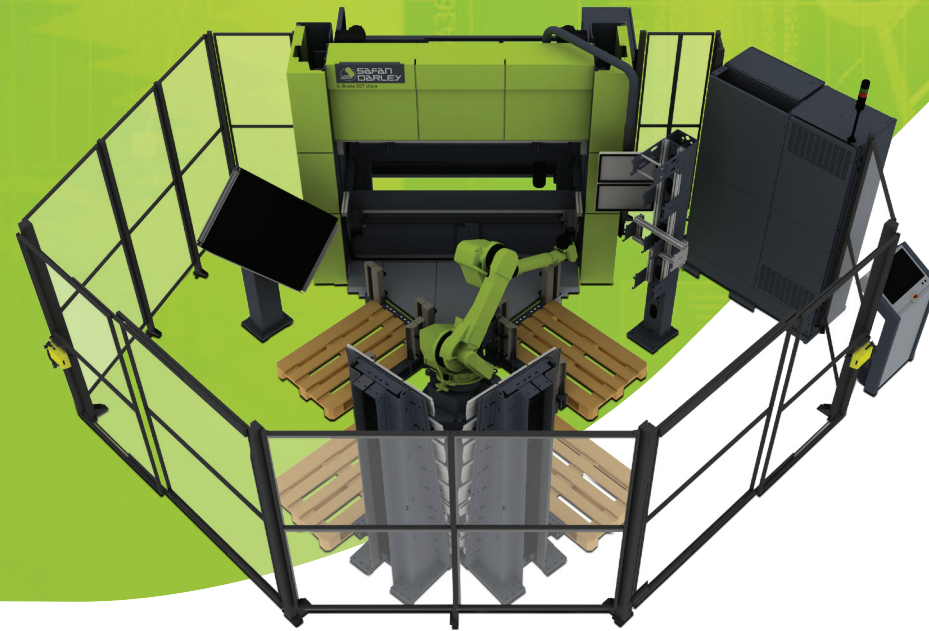
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Multi Cell

Smart Innovations on Compact Space



SafanDarley introduces a versatile addition to our automated bending solutions with the new Multi Cell, for all mid-sized products up to 500x2000 mm product size and 40 to 125 Ton pressing force. This innovative automation solution allows for the bending of a wide variety of products in a very compact space.

When the market starts demanding more flexible robotized bending solutions, there is a need for a change of perspective. SafanDarley has developed the ultimate solution for the mid-sized sheet metal product range by making a cell that fits every demand. This retrofit-capable system ensures that your Multi Cell stays cutting-edge, with the ability to install new technology and features as they become available, safeguarding your investment for the long term.

Tailored to your needs

- Compatible with servo-electronic or hydraulic press brakes of 40 to 125 Ton
- Working lengths up to 2550mm
- Equipped with a 70kg Fanuc robot for ultimate flexibility
- Fully customizable software and electronics to match your specific requirements
- Options for feed-in/re-take stations, sheet thickness, and angle measurement, always possible to retrofit
- Modular safety fencing with manual or automatic doors
- Area scanners for automated feed-in/out with AGV support

The Multi Cell's modular design ensures complete flexibility and customization for any production setup. The Fanuc robot is positioned centrally in front of the machine and under an angle that provides extra reach in front of the press brake to maximize flexibility.



Various machines possible



Fully modular



Future-proof investment



User-friendly interface



Fast setup and minimal downtime

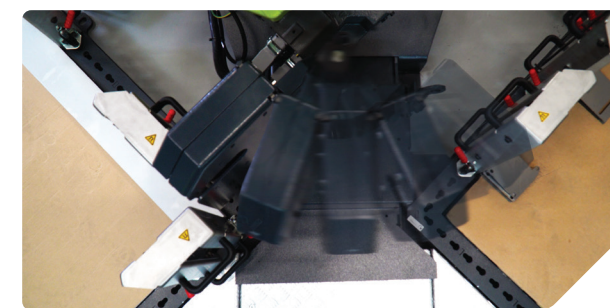
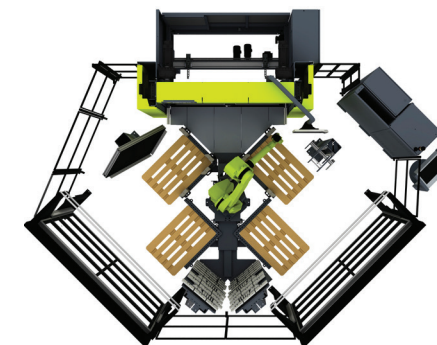


Ultra-compact design

Software

SafanDarley ASC-Control Software is completely developed in-house and we will keep improving following our customer wishes and the market demand. The software is always in control of the complete installation which is equipped with SafanDarley's universal Automated Solutions Electrical cabinet that provides all flexibility for the future.

The left and right side of the cell are meant for feed-in and feed-out. The software makes it possible to change the functionality of the feed-in into a feed-out pallet during the process when the pallet is empty. This ensures that there is an extra pallet for stacking parts without reserving the extra space.



Sheet thickness measuring system

The CNC-controlled sheet thickness measuring system accurately measures sheet thickness and at the same time performs a double sheet detection. With the thickness data immediately adjusted in the controller. Because the Multi Cell can be equipped with 2 feed in stations, the thickness control system will automatically rotate to the correct station. This ensures that the detection is always done directly above the stack.

Technical specifications

Handling capacity of the robot (in kg)	70
Max. sheet weight for the robot (in kg)	50
Min. sheet dimension (in mm)	200 x 200
Max. sheet dimension (in mm)	*500 x 2000
Max. sheet thickness (in mm)	8
Max. stack height feed-in station (in mm)	400
Max. stack height pallet (in mm)	800
Maximum pallet dimension (in mm)	1000 x 2000
Press brake types	E-Brake 40T-1600 E-Brake 50T-2050 E-Brake 80T-2550 H-iBrake 125T-1600 H-iBrake 125T-2050
Total electrical connected load (in kW)	11
Air connection; G ¼" ; (minimal in bar)	6
Main supply voltage	3x400V/50-60Hz.N/Pe
length x depth (in mm)	5.800 x 6.200
Loading height for transport (in mm)	2.650
Flat foundation - The floor must be flat.	

**Depending on sheet thickness and the press brake type.*



Re-take stations

The CNC-controlled support arms can be equipped with magnets, vacuum cups or clamps that transforms them into a flexible reversing station. Because the arms are free to program in front of the press brake with an accuracy of 1 mm the system fits all different products sizes. The Re-take of the product will always take place directly in front of the machine so the movements stay within a short distance that will reduce the total cycle time.