HIGHLIGHTS

Flexible solutions for Industry 4.0

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Electric panel bender for versatile production.

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Bends a wide range of parts, thanks to its patented kinematics.





Automatically adapts to changes in material and the external environment, thanks to MAC3.0 technology.

Produces kits or single batches continuously, when equipped with the ABA automatic blankholder tool.

MACHINE DATA	P1
Maximum bending length (mm)	1250
Maximum bending height (mm)	127
Maximum bending force (kN)	90
Maximum sheet bending force (kN)	310
Minimum thickness (mm)	0.4

0	Requires operator intervention only for
	loading and unloading.

Ready to be connected with Salvagnini's IoT solution, LINKS.

Ideal for Industry 4.0 cells and automation, thanks to the OPS software.

P1
1.60 (±90°)
1.30 (±90°)
1.60 (±90°)
3.0

Uncompromising panel bender.

O Can handle both kit and batch-one production thanks to the universal tool that automatically adapts in-cycle.

Automatically adapts to changes in material O and the external environment, thanks to MAC3.0 technology.

C Requires operator intervention only for loading and unloading.

MACHINE DATA	РХ
Maximum length of incoming sheet (mm)	2180
Maximum bending height (mm)	203
Maximum bending force (kN)	330
Maximum sheet bending force (kN)	530
Minimum thickness (mm)	0.5
Maximum thickness and bending angle steel, UTS 410 N/mm ² (mm)	2.5 (±90°)
Maximum thickness and bending angle stainless steel, UTS 660 N/mm ² (mm)	2.1 (±90°)
Maximum thickness and bending angle aluminium, UTS 265 N/mm ² (mm)	3.5 (±90°)
Average consumption (kW)	5
Noise level (Machine Directive 2006/42/EC) (dB)	70

Reduced cycle times and no re-tooling, whatever the geometry of the parts to be machined. For consistently competitive performance.

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- C A loading/unloading robot can be integrated on the left of the machine, using the CI interface.
- C

Ready to be connected with Salvagnini's IoT solution, LINKS.

Ideal for Industry 4.0 cells and automation, thanks to the OPS software.



Compact panel bender for lean, flexible production.

Available in 3 models, to produce parts ranging from 2100 to 2500 mm in length and from 165 to 254 mm in height.



63

Can handle both kit and batch-one production thanks to the universal tool that automatically adapts in-cycle.



Guarantees power consumption below 4 kW (P2-2120) thanks to electric actuators.



Operator intervention is required only for loading and unloading.

Automatically adapts to changes in material C and the external environment, thanks to MAC3.0 technology.

Ideal for loading/unloading solutions that O are robotized or differentiated with an additional port.

Ready to be connected with Salvagnini's IoT O solution, LINKS.

Ideal for Industry 4.0 cells and automation, 0 thanks to the OPS software.

MACHINE DATA	P2-2120	P2-2225	P2-2520
Maximum bending length (mm)	2180	2200	2500
Maximum bending height (mm)	203	254	203
Maximum bending force (kN)	330	590	660
Maximum sheet bending force (kN)	530	635	1060
Minimum thickness (mm)	0.5	0.5	0.5
Maximum thickness and bending angle (mm):			
Steel, UTS 410 N/mm ²	3.2 (±90°)	3.2 (±90°)	3.2 (±90°)
Stainless steel, UTS 660 N/mm ²	2.5 (±90°)	2.5 (±90°)	2.5 (±90°)
Aluminium, UTS 265 N/mm ²	4.0 (±120°)	4.0 (±120°)	4.0 (±120°)
Average consumption (kW)	3.0	4.0	5.0
Noise level (Machine Directive 2006/42/EC) (dB)	68	68	69

Three P2 models to choose from, to bend up to 2500 mm in length and 254 mm in height.

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PANEL BENDING



Automatic panel bender for versatile production.





Available in 6 models, to produce panels ranging from 2100 to 4000 mm in length and from 203 to 254 mm in height, with thicknesses of between 0.5 mm and 3.2 mm (steel).



Can handle both kit and batch-one production thanks to the universal tool that automatically adapts in-cycle.

Can be integrated with manual or robotized unloading devices.



Works with universal tools that require no retooling.

MACHINE DATA P4-2120 P4-2225 P4-2520 P4-3125 2180 2500 Maximum bending length (mm) 2200 3100 Maximum bending height (mm) 203 254 203 254 330 590 660 625 Maximum bending force (kN) 530 635 1060 825 Maximum sheet bending force (kN) 0.5 0.5 0.5 0.5 Minimum thickness (mm) Maximum thickness and bending angle (mm): 3.2 (±90°) Steel, UTS 410 N/mm² 3.2 (± 90°) 3.2 (±90°) 3.2 (± 90°) 2.5 (±90°) 2.5 (± 90°) Stainless steel, UTS 660 N/mm² 2.5 (± 90°) 2.5 (±90°) Aluminium, UTS 265 N/mm² 4.0 (±120°) 4.0 (± 120°) 4.0 (± 120°) 4.0 (±120°)

Automatically adapts to changes in material and the external environment, thanks to proprietary MAC3.0 technology.

Can be integrated with different semi-automatic, automatic or robotized feeding devices.

MACHINE DATA	P4-3220		P4-4020		
Maximum bending length (mm)	3200	400-3200	3200-3850	3850-4000	
Maximum bending height (mm)	203		203		
Maximum bending force (kN)	660	660			
Maximum sheet bending force (kN)	1060	1060			
Minimum thickness (mm)	0.5		0.5		
Maximum thickness and bending angle (mm):					
Steel, UTS 410 N/mm ²	3.2 (±90°)	3.2 (±90°)	2.5 (±125°)	1.6 (±130°)	
Stainless steel, UTS 660 N/mm ²	2.5 (±90°)	2.5 (±90°)	2.5 (±90°)	1.3 (±120°)	
Aluminium, UTS 265 N/mm ²	4.0 (±120°)	4.0 (±120°)	4.0 (±120°)	2.5 (±125°)	

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Guarantees maximum operator safety, as handling and bending are completely automatic.

Ideal in FMS S4+P4 lines or in AJS integrated factory systems.

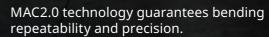


The ideal press brake for dynamic production.





Available in a wide range of sizes, from 2 m to 6 m, and from 60 to 400 tons.





Reduces power consumption while maintaining high levels of productivity with the **Salvagnini Power Unit**.

 MACHINE DATA
 60/2000
 100/3000
 135/3000

 Maximum bending force (ton)
 60
 100
 135

 Maximum speed (mm/s)
 250
 250
 250

MACHINE DATA	220/4250	220/5100	220/6100	320/3000	320/4250	320/5100	400/4250	AU-TO 170/4250	AU-TO 220/4250
Maximum bending force (ton)	220	220	220	320	320	320	400	170	220
Maximum speed (mm/s)	220	220	180	220	220	220	220	250	220

The B3 was designed by combining the features and benefits of **electric** and **hydraulic** press brakes with Salvagnini's in-depth knowledge of **automation**, **software, mechanics** and **electronics**. Whatever the level of **automation** chosen from the 4 available, the B3 remains the solution with the smallest footprint available on the market.

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Allows kit and batch-one production and efficient bending of parametric parts thanks to ATA and AU-TO automation.

Ideal for Industry 4.0 cells and automation, thanks to the OPS software.

Ready to be connected with Salvagnini's IoT solution, LINKS.

0	135/4250	170/3000	170/4250	170/4250XL	220/3000
	135	170	170	170	220
	250	250	250	250	220



Depending on the configuration chosen, consists of a B3 press brake, a robot and a number of devices for automatic sheet metal handling.



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In the ATA configuration, automatically adapts the upper and lower tools in-cycle.



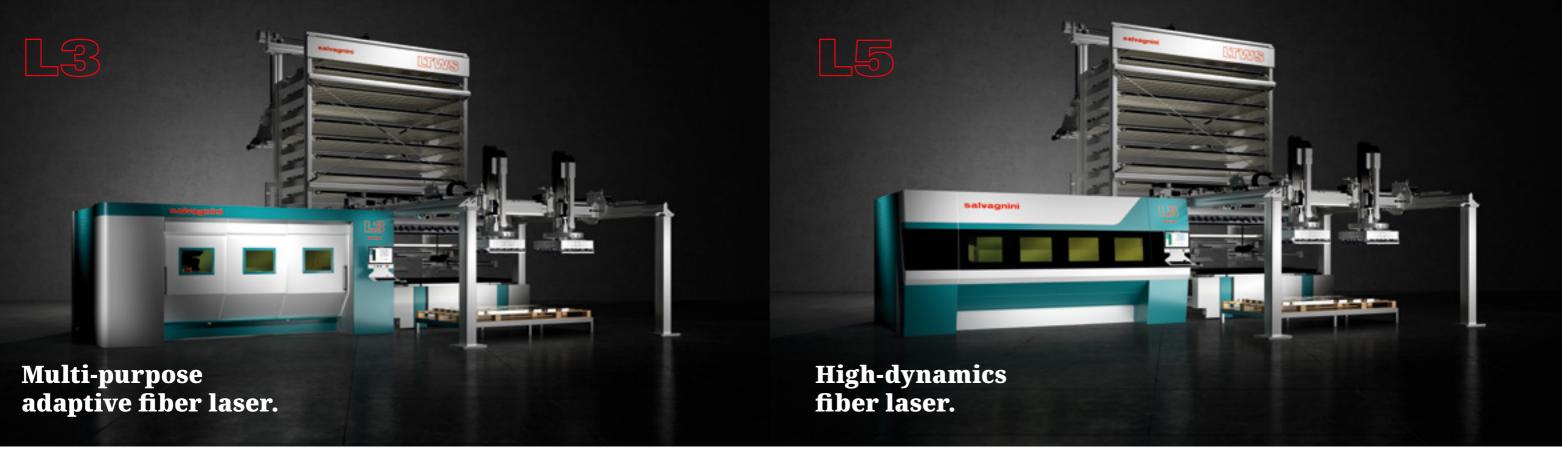
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Managed by a single controller and controlled by a single program, allows unmanned production, with no need for robot teaching.

In the AU-TO configuration, automatically replaces and adapts the upper and lower tools in-cycle.

Repeatability, flexibility, versatility: all the advantages of robotized bending.





Available in 4 sizes, for processing sheets from 3 to 6 m in length and 1.5 to 2 m in width.

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Feature an airplane structure to guarantee

processing precision and stability.

The Tradjust function automatically adjusts the cutting parameters according to the trajectories.

Ready to cut with nitrogen and oxygen, while the ACUT option allows them to cut with compressed air too.

Offer full control of the cutting area and the automation, thanks to the central position of the touch-screen monitor.

Equipped with a single optics head offering highquality cuts across the entire range of workable thicknesses.

Suitable for unmanned operation, since the fast pallet changer always moves the sheet to be cut above the one that has already been machined.

		MODELS			
	L3-30		L3-40	L3-4020	L3-6020
XY working range (mm)	3048 x 152	4	4064 x 1524	4064 x 2032	6096 x 2032
	FIB	ER SOURCES			
Fiber laser source (W)	2000 W	3000 W	4000 W	6000 W (L)	10000 W
Cutting capacity (maximum thickness)(mm) ¹					
Steel	15	20	20	25	25
Stainless steel	10	12	15	20	30
Aluminium	8	10	15	20	30
Copper	5	8	8	8	10
Brass	5	6	8	8	10
Minimum thickness (mm)			0.5		
Maximum power consumption (kW)	11	12	13	16	26

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¹These values are for the Salvagnini reference materials.

Guarantee easy access to the worktable for rapid part pick-up and lean maintenance.

Integrate advanced solutions for process control G and efficiency:

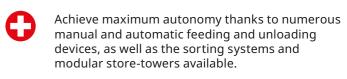
- APC2 monitors piercing in real time, for greater speed and higher quality;
- AVS speeds up the centering of the metal sheet, and allows earlier machining operations to be used as references;
- SVS regains scrap and sheet metal leftovers;
- NVS checks the centering of the laser beam and the state of the nozzle.

		MODELS				
L5-30 L5-40						
XY working range (mm)		3048 x 1524		4064 x 152	24	
FIBER SOURCES						
Fiber laser source (W)	2000 W	3000 W	4000 W	6000 W (L)	10000 W	
Cutting capacity (maximum thickness)(mm) ¹						
Steel	15	20	20	25	25	
Stainless steel	10	12	15	20	30	

		MODELS						
L5-30 L5-40								
XY working range (mm)		3048 x 1524		4064 x 152	4			
FIBER SOURCES								
Fiber laser source (W)	2000 W	3000 W	4000 W	6000 W (L)	10000 W			
Cutting capacity (maximum thickness)(mm) ¹								
Steel	15	20	20	25	25			
Stainless steel	10	12	15	20	30			
Aluminium	8	10	15	20	30			
Copper	5	8	8	8	10			
Brass	5	6	8	8	10			
Minimum thickness (mm)			0.5					
Maximum power consumption (kW)	11	12	13	16	26			

¹These values are for the Salvagnini reference materials.

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Ideal for Industry 4.0 cells and automation, thanks to the OPS software.

Ready to be connected with Salvagnini's IoT solution, LINKS.



Punch-laser with adaptive hybrid technology.

- Equipped with a multi-press head featuring advanced hybrid technology that guarantees high quality processing and reduced cycle times, since the tools are always available.

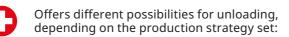
Equipped with a manipulator featuring two independent trolleys to optimize sheet reachability and guarantee precision, repeatability and high dynamics.



MACHINE DATA

Uses a reliable, green hybrid actuator, which reduces absorption by 20% compared to common electrical solutions.

Can be integrated with the entire Salvagnini automation range.



- single-part with skeleton destruction, for in-line processing;
- single part with skeleton evacuation by the optional manipulator equipped with pincers and suction cups, for easy and precise automatic stacking.

Ideal for Industry 4.0 automation and in-line processing, thanks to the OPS software.



S1.30 S1.40

C:

Maximum sheet dimensions (mm)	3048 x 1524	4064 x 1524
Minimum sheet dimensions (mm)	370 x 300	

Punching		
Max thickness of sheet (mm)		
Aluminum, UTS 265 N/mm ²	5.0	
Steel, UTS 410 N/mm ²	5.0	
Stainless steel, UTS 610 N/mm ²	5.0	
Min thickness of sheet (mm)	0.5	

Laser		
Technology	fiber	
Source	fiber	
Max power (W)	2000 - 3000	
Max thickness of sheet (mm)	5.0	
Assist gas	Nitrogen, compressed air	

Punching-shearing center.

Equipped with a multi-press head, a solid diestructure that holds up to 96 tools which are always available and doesn't require re-tooling for production changes. The shear is integrated into the structure, for superior quality machining.



Minimizes cutting scrap and eliminates holding scrap.

Ideal for flow processing thanks to the Punch&Cut function.

MACHINE DATA			
	S4.30	S4.40	
Maximum sheet dimensions (mm)	3048 x 1650	4064 x 1650	
Maximum sheet diagonal (mm)	3466	4386	
Minimum sheet dimensions (mm)	370	370 x 300	

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Punching	
Punching tool change time (s)	0*
Possibility of activating two or more tools simultaneously	yes
Max thickness of sheet (mm)	
Aluminum, UTS 265 N/mm ²	5.0
Steel, UTS 410 N/mm ²	3.5
Stainless steel, UTS 610 N/mm ²	2.0
Min thickness of sheet (mm)	0.5

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Automatically punches and cuts the parts, performing all the loading/unloading/sorting tasks in masked time.

Can be integrated with the entire Salvagnini automation range.

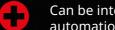
Ideal for Industry 4.0 automation and in-line processing, thanks to the OPS software.

Ready to be connected with Salvagnini's IoT solution, LINKS.

Shearing	
Cutting technology	simultaneous or independent X and Y axis
Blade clearance adjustment	automatic
Length of shear blades X x Y (mm)	500 x 500
Max thickness of sheet (mm)	
Aluminum, UTS 265 N/mm ²	5.0
Steel, UTS 410 N/mm ²	3.5
Stainless steel, UTS 610 N/mm ²	2.0







Ready to be connected with Salvagnini's IoT solution, LINKS.

The human-sized software suite.



STREAM is Salvagnini's answer to the modern industrial context, a programming suite that improves reactivity and reduces costs, operating errors and process inefficiencies. STREAM is the integrated ecosystem for managing all activities in the office and on the factory floor, the only point of access for all technologies, from cutting to bending, meeting all planning, programming, production, management, control, and optimization needs throughout the production process.

The programming suite includes 4 CAM modules, associated with each individual technology.



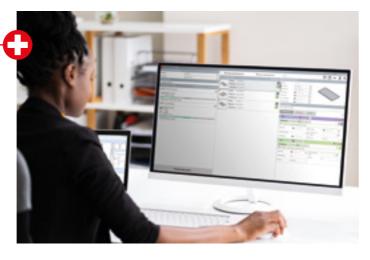
VALUES

VALUES is the software which provides an accurate estimation of production costs. It allows calculation not only on the basis of the individual technology, but also on that of the entire process, including upstream and downstream machining where necessary.

PARTS

PARTS is the software used to manage the whole database of products and parts:

- it classifies the elements according to common or customized categories;
- it defines the production flows for each part to be machined;
- it is integrated with the CAM software.



Coordinate your factory, in real time.



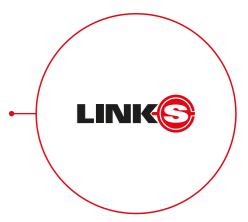
IoT to serve efficiency

LINKS is Salvagnini's IoT solution that monitors the **performance of all** systems. It offers access to production data, logbooks, performance KPIs and telemetry, as well as parameter monitoring by the Condition Monitoring process, thus increasing the overall equipment efficiency.

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OPS is the modular production management software. Within the production equation, it acts as the central coordinator, managing and distributing information among all the environments and stakeholders involved, eliminating critical points and drastically improving process efficiency.

> OPS receives the production list from the factory information management system in real time, and delivers an updated version to the programmer. It can support the programmer's activities by defining priorities, automatically generating the machine programs and sending them to the workshop. It checks the availability of raw materials or semi-finished parts and generates feedback to the factory information management system, updating it in real time, part by part. It can make autonomous decisions according to a production logic – or according to a multiple mix of production logics - designed to meet the needs of the customer and transformed into an algorithm. It integrates labeling, traceability and storetower management upstream and downstream of the cutting, punching and bending activities.



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