



Sheet metal working solutions for Factories 4.0

salvagnini

FMS S4 + P4

The highly efficient sheet metal processing system.

The S4+P4 line punches, shears and bends sheet metal totally automatically, without any intermediate handling. Set-up in masked time delivers high productivity and makes kit and batch one production possible. The line is modular and can be combined with intelligent solutions for manual or automated feeding and unloading that enhance the quality and cost-effectiveness of the parts produced.







AJS™ Automated Job Shop

The production system for really lean production.

In an AJSTM system, panel production through punching, shearing, laser cutting and/or bending is both automatic and flexible, satisfying a wide variety of production strategies, such as lean, kit, JIT, batch one and unattended. The different AJS systems are capable of adapting to customer requirements in terms of application sector and production mode.





S4Xe Punching-shearing system

A winning solution.

The S4Xe embodies the concept of flexible automation, uniting all the operations that used to require manual intervention into a single system that cuts, loads, unloads, stacks, separates and sorts. Patented by Salvagnini, the multi-press head consists of a die-structure in which the punching stations are fitted with all the tools needed for production. No stopping is required for tool change. The shear, integrated with the multi-press head, allows scrap-free nesting and punch&cut for optimized production downstream.

Technical specifications	S4Xe.30	S4Xe.40		
Maximum sheet dimensions (mm)	3048 x 1650	4268 x 1650		
Speed with both axes moving simultaneously (m/min)	163			
Punching				
Punching tool change time (s)	0 (each tool is always ready for use)			
Possibility of activating two or more tools simultaneously	У	es		
Maximum material thickness (mm):				
Aluminium, UTS 200 N/mm ²	5	5.0		
Steel, UTS 410 N/mm ²	3	3.5		
Stainless steel, UTS 610 N/mm ²	2	2.0		
Max. no. of punches in head	9	96 *		
Shearing				
Technology	independent or simultaneous cuts on X and Y			
Blade clearance adjustment	auto	matic		

* Max number of punches depends on head configuration



Fiber laser

Panel benders

L3 | **L5** 2 models for versatile, high-quality production runs with competitive costs per part.

The L3 and L5 fiber laser cutting systems with electronic sources deliver reduced running costs and eliminate both optical path and laser gas. They feature an airplane-type structure that confers solidity and precision, and a head with a single optic for high-quality cutting over the entire range of materials. The proprietary controller and exclusive TRADJUST function automatically calculate the modulation of the cutting parameters as a function of changes in direction, speed and acceleration.

Cutting capacity (thicknesses)	2000	3000	4000
Steel (S185JR, S235JR, RAEX 250 C LASER) (mm)	0.5 - 15	0.5 - 20	0.5 - 20
Stainless steel (AISI 304, X5CrNi18-10 1.4301) (mm)	0.5 - 10	0.5 - 12	0.5 - 15
Aluminium (Al 99.5 EN AW 1050A) (mm)	0.5 - 8	0.5 - 10	0.5 - 15
Copper (Cu-ETP CW004A H040 EN1652) (mm)	0.5 - 5	0.5 - 8	0.5 - 8
Brass (CuZn37 CW508L H055 EN1652) (mm)	0.5 - 5	0.5 - 6	0.5 - 8
Maximum power consumption (kW) L3	20	24	28
Maximum power consumption (kW) L5	21	25	29











100% **FIBER**

PATENTED STRUCTURE



P1 Productivity with 8m² and just 3 kW.

The P1 is a small electric Panel Bender that is suitable for flexible, customized production. It implements the very latest engineering solutions that extend its field of application towards typical pressbrake products and combine high productivity with extremely low consumption. What is more, like all Salvagnini Panel Benders, the P1 works safely and automatically with universal bending tools.

Max. bend length (mm)	1250
Max. bend height (mm)	127
Max. thickness and bend angle for steel, UTS 410 N/mm² (mm)	1.60 (±90°)
Max. thickness and bend angle for stainless steel, UTS 660 N/mm² (mm)	1.30 (±90°)
Average consumption (kW)	3.0



P2lean 5 kW to bend leanly and flexibly.

The P2lean is the ideal solution for flexible bending. It only requires operation intervention for loading and unloading; it can handle both kit and batch one production thanks to the universal tool that adapts during the cycle; it only uses electric actuators, keeping in-cycle consumption below 5 kW; thanks to the adaptive MAC 2.0 technology it compensates for any variation in material quality in cycle, ensuring consistent quality of parts.



Panel benders

Press-brakes

P4 The widest range of Panel Benders at your service.

Each P4 Panel Bender works with universal bending tools that require no machine stops or set-up times, and thanks to the proprietary MAC 2.0 technology, the Panel Bender automatically adapts to material variations, ensuring consistent quality of parts. With over 30 years of experience, Salvagnini offers the very widest range of Panel Benders.









TECHNOLOGY



BENDING TOOL

P4lean-2116 P4-2225 P4-3125 P4lean-3816 P4lean-2516 P4lean-2520 P4lean-3216 2180 2200 2500 2500 3200 3100 400-3200 3200-3850 Maximum bend length (mm) 165 165 Maximum bend height (mm) 254 165 203 165 254 Maximum bending force (blades) kN 330 440 660 660 660 510 660 Maximum bending force (blankholder) kN 530 660 1060 1060 1060 780 1060 Maximum thickness and bend angle: • Steel, UTS 410 N/mm² (mm) 3.2 (± 90°) 3.2 (± 90°) 3.2 (± 90°) 3.2 (± 90°) 3.2 (± 90°) 3.2 (± 90°) 3.2 (± 90°) 2.5 (± 125°) • Stainless steel, UTS 660 N/mm² (mm) $2.5 (\pm 90^{\circ})$ 2.0 (± 90°) 2.0 (± 90°) $2.5 (\pm 90^{\circ})$ 2.5 (± 90°)

The values indicated apply to a standard machine. Salvagnini reserves the right to modify this data without warning.

B3 Energy and speed optimization for high productivity.



Thanks to proprietary Kinetic technology, the B3 press-brake range delivers high degrees of productivity, accuracy and safety yet keeps consumption low. The high-dynamic (direct-drive) and KERS energy recovery systems achieve higher speeds and accelerations with the same consumption.

The ATA device installed on the B3 press-brake allows tool length to be changed and adjusted automatically, making bending of both batch one and parametric parts possible.







Model	100/3000	100/4250	135/3000	135/4250	170/3000	170/4250	170/4250XL	220/3000	220/4250	220/5100	320/3000	320/4250	320/5100
Max. power (tonnes)	100	100	135	135	170	170	170	220	220	220	320	320	320
Max. speed (mm/s)	250	220	250	220	250	220	220	220	220	220	220	220	220

ROBO form**ER** The perfect solution for all production requirements.

The ROBOformER is a synthesis of automation and flexibility. The dynamics of the electric press-brake and the integration of robot and connections make unprecedented levels of productivity possible. The ROBOformER can go quickly from drawing to end product, with a single controller, a single program and no need for robot teaching. Eliminating dead times and optimizing the bending process, it is the perfect solution for all production requirements.













