



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	4064 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	yes		
Maximum material thickness (mm):			
Aluminium, UTS 200 N/mm ²	5.0		
Steel, UTS 410 N/mm ²	3.5		
Stainless steel, UTS 610 N/mm²	2.0		
Maximum number of punches in head	96 *		
Shearing			
Technology	independent or simultaneous cuts on X and Y		
Blade clearance adjustment	auto	omatic	



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.

		L	.3			L5	
Fiber laser source (W)	2000	3000	4000	6000	2000	3000	4000
Cutting capacity (thicknesses)							
Steel (S185JR, S235JR, RAEX 250 C LASER) (mm)	0.5 - 15	0.5 - 20	0.5 - 20	0.5 - 25	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	0.5 - 20	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	0.5 - 20	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	0.5 - 8	0.5 - 5	0.5 - 8	0.5 - 8
Brass (CuZn37 CW508L H055 EN1652) (mm)	0.5 - 5	0.5 - 6	0.5 - 8	0.5 - 8	0.5 - 5	0.5 - 6	0.5 - 8
Maximum power consumption (kW)	16	18	21	29	16	18	21





PATENTED STRUCTURE

P1 Productivity with 8m² and just 3 kW.

The electric panel bender P1 features patented cinematics of the bending group offering the possibility of manufacturing a wide range of pieces, even those not feasible with other panel bender models. It automatically bends in less than 2 seconds with universal bending tools that do not require retooling in total safety for the operator. P1 also produces without interruption single batches or kit, if equipped with the ATA blankholder tool.

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

Maximum bending length (mm)

Maximum bending height (mm)

Maximum sheet bending force (kN)

Maximum thickness and bending angle steel, UTS 410 N/mm² (mm)

Maximum thickness and bending angle stainless steel, UTS 660 N/mm² (mm)

Maximum thickness and bending angle aluminium, UTS 265 N/mm² (mm)

Maximum bending force (kN)

Minimum thickness (mm)

Average consumption (kW)



P2lean The lean and flexible panel bender.

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 (P2lean-2116); thanks to the adaptive MAC 2.0 technology it compensates for any variation in material quality in cycle, ensuring consistent quality of parts.

P2lean-2116

165

330

530

0.4

3.2 (±90°)

2.5 (±90°)

5.0





TECHNOLOGY

4.0 (±120°)

ZERO SET-UP TIMES

4.0 (±120°)

P2lean-2516

2500

165

660

1060

0.5

3.2 (±90°)

2.5 (±90°)

4.0 (±120°)

9.0

 P2lean-2120
 P2lean-2520

 2180
 2500

 203
 203

 330
 660

 530
 1060

 0.4
 0.5

 3.2 (±90°)
 3.2 (±90°)

 2.5 (±90°)
 2.5 (±90°)

UP TO 5g PRODUCTIVITY 100% FIBER

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



P4lean-2116 P4lean-2120 P4-2225 P4lean-2516 P4lean-2520 P4lean-3216 P4lean-3220 P4lean-3816 2180 2200 2500 3200 3200 3100 400-3200 3200-3850 Maximum bending length (mm) 2180 2500 165 203 254 165 203 165 203 254 165 Maximum bending height (mm) 440 660 510 660 Maximum bending force (blades) (kN) 330 330 660 660 660 Maximum bending force (blankholder) (kN) 530 530 660 1060 1060 1060 1060 780 1060 Maximum thickness and bending angle steel, UTS 410 N/mm² (mm) $3.2 (\pm 90^{\circ}) \quad 3.2 (\pm 90^{\circ}) \quad 3.2$ Maximum thickness and bending angle stainless steel, UTS 660 N/mm² (mm) $2.5 (\pm 90^{\circ}) \quad 2.5 (\pm 90^{\circ}) \quad 2.5$

Values refer to standard machines. Salvagnini reserves the right to modify data without prior notice.

B3 Energy and speed optimization for high productivity.



Thanks to proprietary 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
 60/2000
 100/3000
 135/3000
 135/4250
 170/3000
 170/4250
 170/4250XL
 220/3000
 220/4250
 220/5100
 320/3000
 320/4250
 320/5100
 400/4250

 Max. power (tonnes)
 60
 100
 135
 135
 170
 170
 170
 220
 220
 220
 320
 320
 320
 400

 Max. speed (mm/s)
 250
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ROBO formER The perfect solution for all production requirements.







Laser cutting

L3 L5

Punching

S4Xe SL4

Panel forming

P1 P2lean P4

Bending

B3 ROBO From ER

Systems

AJS FMS S4+P4 FlexCell

Logistics

MTW MD MBT MV LTW