

SOFTWARE

Software that makes management simpler

FACE
Simple and intuitive HMI for on-board machine management.

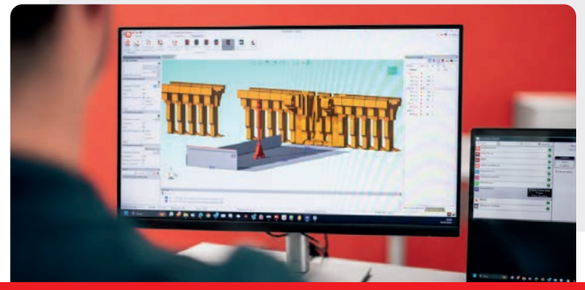
PARTS
Manages the database of parts, kits and assemblies processed by the different technologies, defining the corresponding production flows.

STREAM
Programming suite for managing activities both in the office and on the workshop, including production planning, part programming, process optimization and flow control.

STREAMBEND
CAM suite for developing panel bending programs in the office, even for multiple parts.

OPS
Organizes production, connects P4 to ERP/MRP systems and automates production lists and information distribution.

LINKS
Monitors performance and production data.



AUTOMATION

Tailored automation

The P4 can work in **stand-alone or in-line mode, or in a flexible cell or an automatic factory.** The loading and unloading configurations are used to adapt the level of automation to production needs, or can increase it over time.

AUTOMATIC LOADING
PCD, MCU and **MV** automate the P4 feeding, from destacking and transfer of semi-finished parts to tray store management.

MANUAL OR ROBOTIZED UNLOADING
The finished panel can be picked by the operator, unloaded with **SAP** or automatically handled by **P-Robot**.

INTEGRATION IN THE FLOW
MCU and **PCD** are used to connect P4 to upstream processes and integrate it in larger automatic systems and lines, including **FSL**, which connects punching, panel bending, automations and software in a single production flow, reducing intermediate handling and optimizing the efficiency of the whole process.

EFFICIENCY

Optimized consumption

P4 uses **electric actuators and direct drivers**, with no hydraulic installation. The efficiency of the drives and intelligent cycles use energy only when needed.

LOWER CONSUMPTION
MORE EFFICIENCY
GREATER
COMPETITIVE PERFORMANCE

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P4

The automatic flexible bending platform

Salvagnini Italia S.p.A.

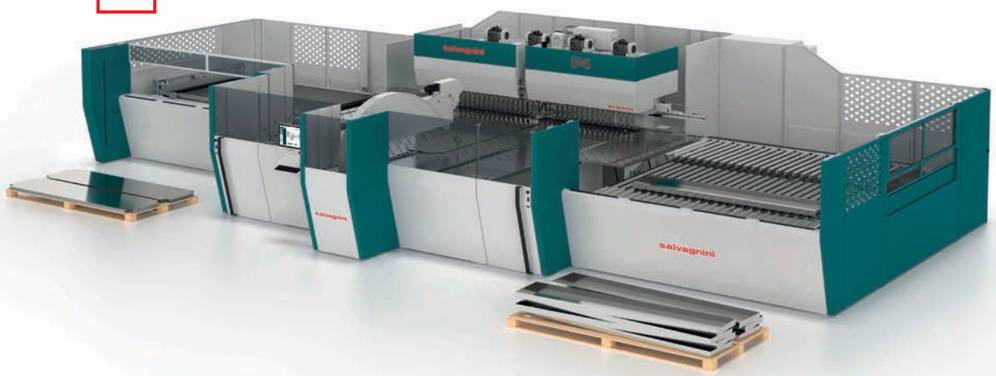
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Some contents of this brochure were developed using artificial intelligence and were validated by our experts.

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P4



The automatic flexible bending platform

P4 is the high-end automatic panel bender designed to simplify increasingly variable productions.

It combines automatic bending cycles and handling, universal tools and adaptive technologies to precisely manage different production mixes, from batch ones to kit production. The P4 range also ensures high configurability for different productions: stand-alone, in-line or integrated in cells and automatic factories.

TECHNICAL SPECIFICATIONS	P4-2120	P4-2226	P4-2520	P4-2535	P4-2720	P4-3126	P4-3220	P4-4020		
Maximum length of incoming sheet (mm)	2495	2815	3050	3495	3050	3495	3850	4000		
Maximum width of incoming sheet (mm)	1524	1524	1524	1524	1524	1524	1524	1524		
Maximum diagonal that can be rotated (mm)	2500	2820	3200	3500	3200	3500	4000	4280		
Maximum bending force (kN)	330	590	660	660	660	625	660	660		
Maximum sheet bending force (kN)	530	635	1060	1060	1060	825	1060	1060		
Maximum bending length (mm)	2180	2200	2500	2500	2750	3100	3200	400-3200	3200-3850	3850-4000
Maximum bending height (mm)	203	260	203	350	203	260	203	203	203	203
Minimum thickness (mm)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4		
Maximum thickness steel, UTS 410 N/mm² (mm)	3.2	3.2	3.2	2.5	3.2	3.2	3.2	3.2	2.5	1.6
Maximum thickness stainless steel, UTS 660 N/mm² (mm)	2.5	2.5	2.5	2.1	2.5	2.5	2.5	2.5	2.5	1.3
Maximum thickness aluminium, UTS 265 N/mm² (mm)	3.2	4.0	4.0	3.2	4.0	4.0	4.0	4.0	3.4	2.5

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



PRODUCTIVITY

More production, no retooling

P4 combines productivity and flexibility: on average, **17 bends per minute,** using universal tools that machine a whole range of thicknesses and materials with no tool changes. Automatic loading, bending and handling can also be done in-cycle and, when possible, **in masked time**.

PRECISION

Top quality every time

The **Bending Formula** calculates the tool force and movements in real time, while **MAC3.0** automatically detects and compensates any material variations. The advanced sensors also consider thickness, dimensions and temperature variations, guaranteeing precision, repeatability and constant quality.

CONFIGURABILITY

Configured to your production needs

P4 can be configured to suit different products, shapes and production strategies.

The dedicated options extend the application field of automatic panel bending, passing from one shape to the next without any manual retooling.

- **T and P tools:** for narrow panels, tubular, hidden or radius bends or bends with intrusive embossings
- **CLA:** positive or negative tabs and bends that are shorter than the part length
- **CUT:** automatic cutting of different profiles
- **DPM/DPM-I:** handling of narrow parts, frames and special shapes
- **AQC:** automatically measures and corrects the bend angle



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