

# MODULA <sup>EN</sup>

X-Series



**CAMPETELLA**

Side entry Robot MODULA X-Series evo

 *Campetella,  
the right way  
to save energy.*

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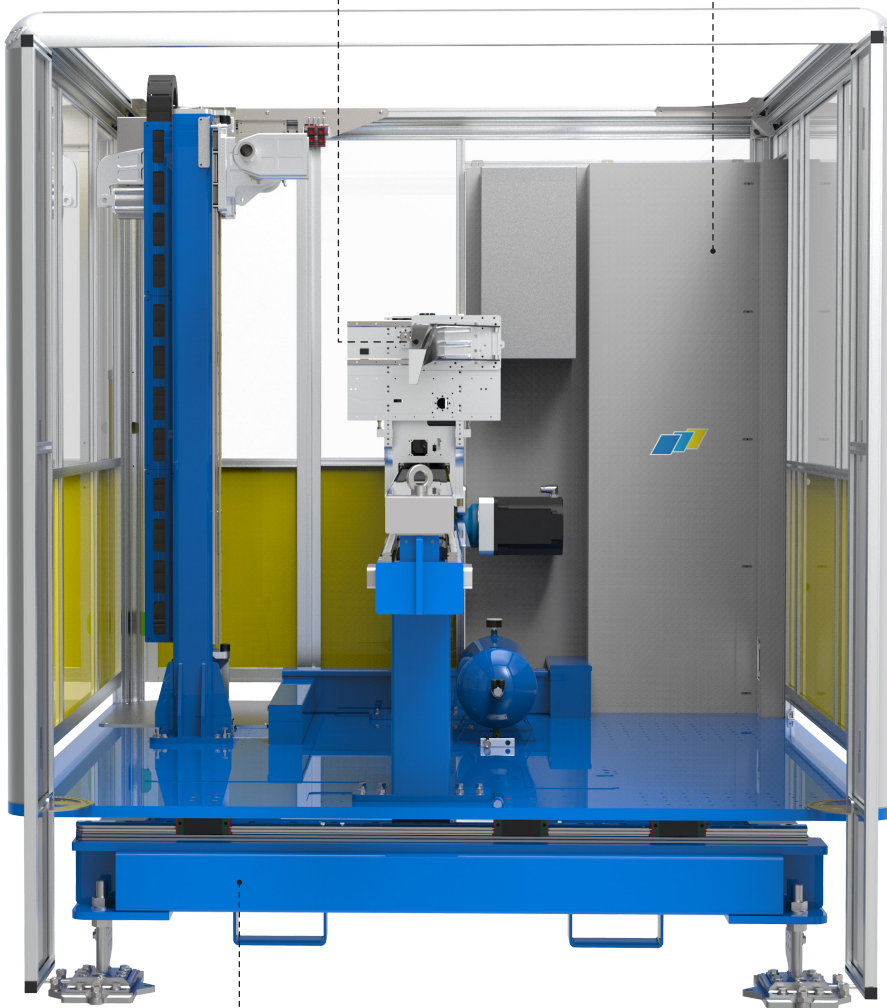
# MODULA X-Series evo

## The ultra-performing side-entry designed for maximum productivity

No compromises. Modula X-Series is a side entry robot exclusively designed to reduce cycle time in the most extreme applications. Sturdy steel structure, light alloys and carbon fibre identify the DNA of mechanics conceived for maximum strain, to stand accelerations and speeds at the top of its range.

Carbon fiber arm with twisted profile

Electrical panel on board



Sturdy base for resting on floor



Console EVO

Light and ergonomic, with a 7" TFT 800x480 wide range touch screen and a membrane keyboard, it allows to program and manage all the robot functions in a simple and intuitive way.

Through a simple wizard, it quickly guides the user through the creation of IMM unloading cycles with palletizing functions.

In order to encourage more complex work cycles, we use a powerful editor, which allows to access all the available functions.

The EVO software offline version is also available to be installed on a PC in order to permit the offline programming and the remote connection to the robot.

# MODULA X-Series evo

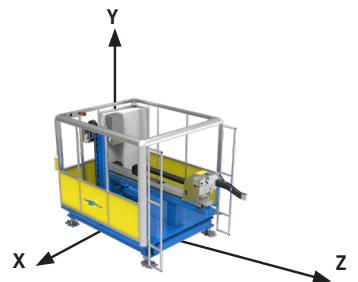
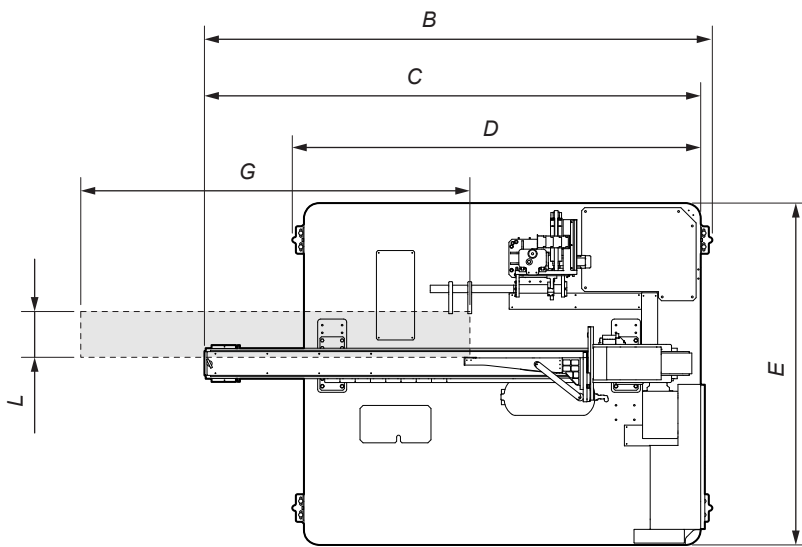
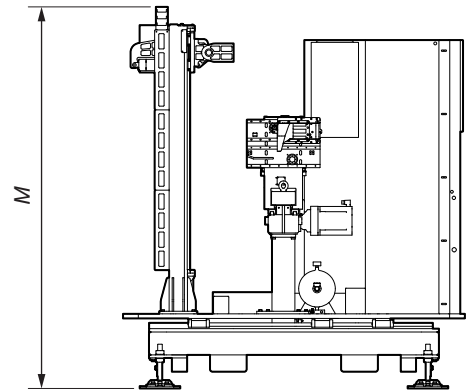
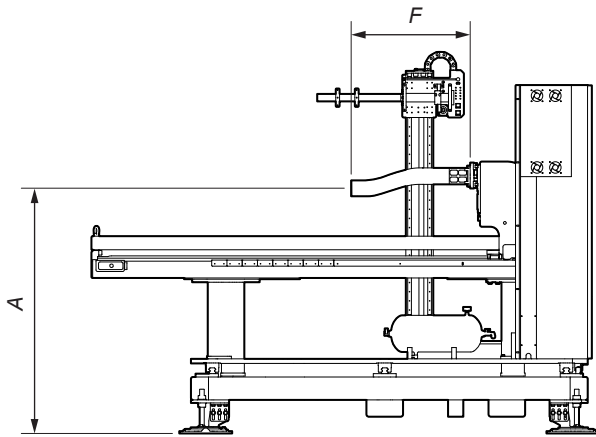
MODULA 1

MODULA2

**Technical specifications:**

Maximum payload [kg]:	15	15
<b>Strokes of main axes:</b>		
1 - Z Axis - transversal [mm]:	2550	2970
2 - X Axis - extraction arm [mm]:	300	300
3 - Y Axis - additional extraction arm [mm]*:	300	300
4 - Unloading axis - transversal [mm]:	1300	1300
Axis movement:	AC synchronous brushless servo motors	
Axes guidance system:	Self-lubricating sliding blocks with roll-by balls on carbon steel prismatic guides	
Positioning repeatability [mm]:	± 0,1	± 0,1
Pneumatic unloading axis rotation [deg]:	0°/90°	0°/90°
Control unit:	Campetella EVO proprietary system	
Minimum cycle time with maximum load [s]:	2,5	2,5
Electrical power supply:	400-480 VAC • 50-60Hz • 3P+T	
Installed electrical power [kVA]:	19,8	19,8
Pneumatic power supply [bar]:	6	6
Approximate weight [kg]:	2800	2800

\* linked to the additional extraction arm (optional) - see equipment list



Model	A	B	C	D	E	F	G	H	I	L	M	N
MODULA 1	???	???	???	???	???	780	2550	N/A	N/A	300	???	N/A
MODULA 2	???	???	???	???	???	780	2970	N/A	N/A	300	???	N/A

The drawings refer to a robot MODULA 1

	MODULA 1	MODULA 2
<b>EOA interface and axes</b>		
High-rigidity carbon fibre extraction arm	●	●
Additional high-rigidity carbon fibre extraction arm	○	○
Mechanical fixing interface for gripping system on extraction arm	●	●
Stamped products unloading axis (linear shifting with servo motor + pneumatic rotation)	●	●
Mechanical fixing interface for gripping system on stamped products unloading axis	●	●
Offset axis - horizontal shifting of base with electric motor - stroke +/- 250 mm	○	○
<b>Pneumatics</b>		
<b>Central carriage unit:</b>		
First and second vacuum line with release blows	●	●
First pressure circuit for mechanical gripper	●	●
Additional vacuum circuits with release blows (n.2 max) (2)	○	○
Additional pressure circuits for mechanical gripper (n.3 max) (2)	○	○
<b>Unloading axis unit:</b>		
First pressure circuit for mechanical gripper	●	●
Additional vacuum circuits with release blows	●	●
Additional vacuum circuits with release blows (n.1 max)	○	○
(2) Up to a maximum of 6 pneumatic lines total		
<b>Electronics and Software</b>		
Euromap 67 interface	●	●
Ethernet interface	●	●
USB interface	●	●
Socket for digital signals on the wrist: 5 (Programmable Input/Output) + 2(Input)	●	●
Socket for user safety signals	–	–
Socket for conveyor belt signals: 1 (Input) + 2 (Output) + 1 (Relais Output)	●	●
Socket for digital signals: 4 (Input) + 3 (Output relay)	●	●
Proximity sensor (intermediate mechanical cam) for transversal axis	●	●
Industry 4.0 kit (ethernet router + software)	○	○
Board kit I/O external 16I + 16O with 8mt cable	○	○
Electrical panel on board	●	●
Electrical cabinet on the ground	–	–
Ground cabinet air conditioning	○	○
PLC software integrated into the CNC	●	●
Off-line programming software	○	○
Safety guards with electrical system and Euromap 73 interface:	●	●

**Accessories****IMM connecting cable:**

For Euromap 67 interface, available lengths [m]: 10 (●) 12 (○) 14 (○)

For JIS interface, available lengths [m]: 10 (○)

**Pushbutton remote control panel for basic functions (○)****EVO console cable winder (○)**

● Standard ○ Optional – Not available