

MODULA TWIN maxi

X-Series



Side entry Robot MODULA maxi X-Series evo



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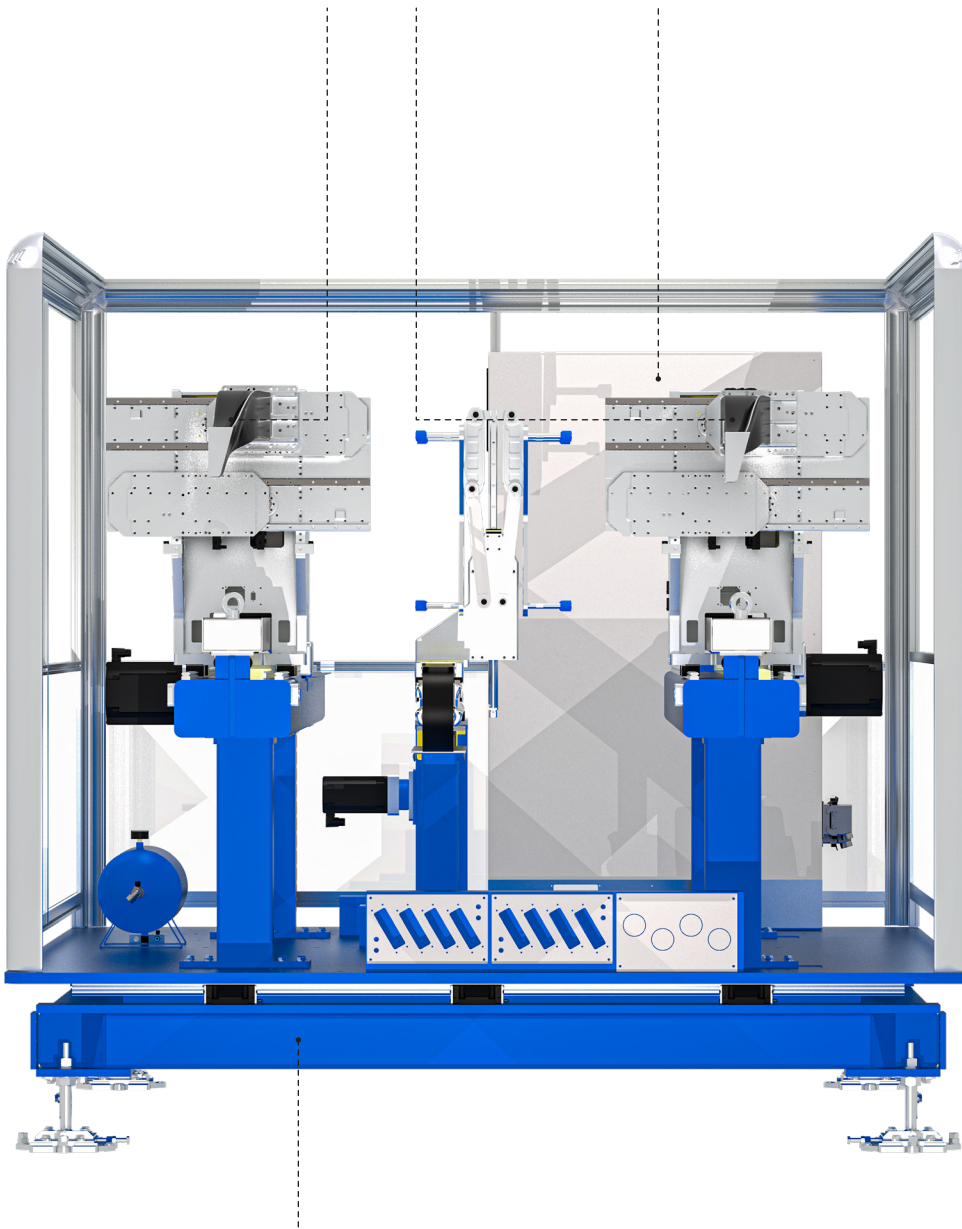
MODULA TWIN maxi X-Series evo

A robust, powerful and fast side-entry robot for stack molding applications

The bigger brother of Modula X-Series, the Maxi model increases travels and ranges, all the while maintaining its unmistakable calling for maximum performances. Designed to support high payloads with reduced cycle times, it is amazing in action due to the powerful accelerations provided to the heaviest and most voluminous parts.

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.

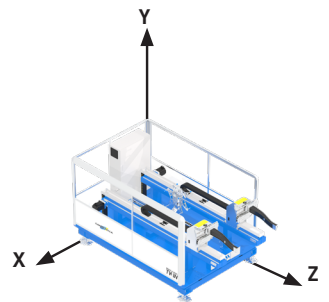
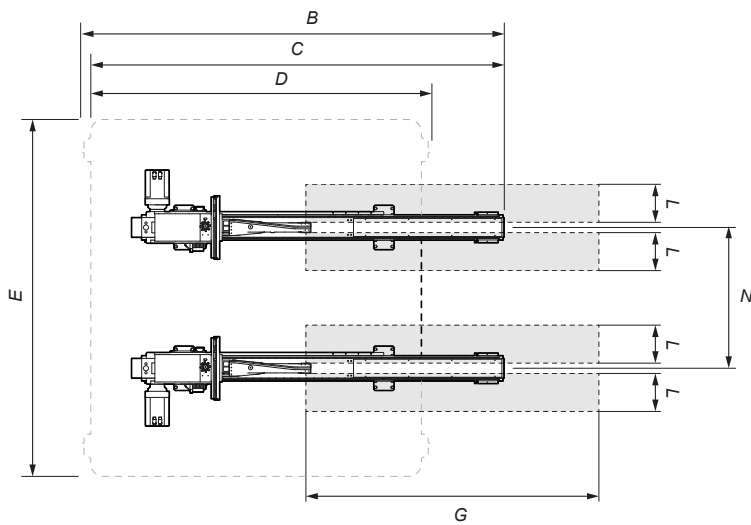
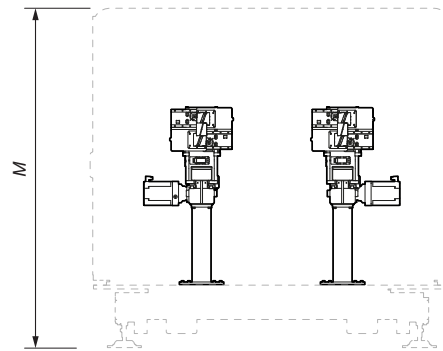
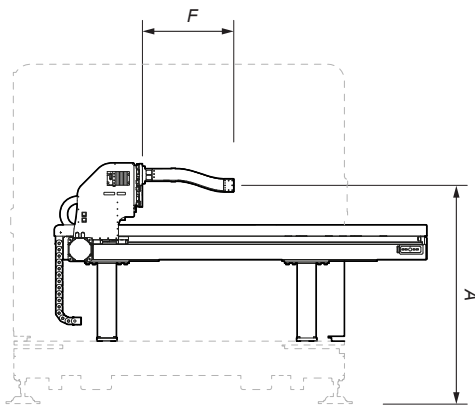
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Technical specifications:

Maximum payload [kg]:	25 (x2)
Strokes of main axes:	
1 - Z Axis - transversal [mm]:	3225 (x2)
2 - X Axis - extraction arm [mm]:	400 (x2)
3 - Y Axis - additional extraction arm [mm]*:	400 (x2)
4 - Unloading axis - transversal [mm]:	800
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
Pneumatic unloading axis rotation [deg]:	0°/90°
Control unit:	Campetella EVO proprietary system
Minimum cycle time with maximum load [s]:	5,0
Electrical power supply:	400-480 VAC • 50-60Hz • 3P+T
Installed electrical power [kVA]:	43,5
Pneumatic power supply [bar]:	6
Approximate weight [kg]:	8000

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



Model	A	B	C	D	E	F	G	H	I	L	M	N
MODULA TWIN Maxi	*	*	*	*	*	1110	3225	N/A	N/A	400	*	**

The drawings refer to a robot MODULA TWIN MAXI

* Custom base and protections on layout verification - ** Custom wheelbase on layout verification

Machine data may be subject to change without prior notice from the manufacturer and this in order to improve its performance.

MODULA TWIN maxi

EOA interface and axes

High-rigidity carbon fibre extraction arm (for each transversal axis)	●
Additional high-rigidity carbon fibre extraction arm (for each transversal axis)	○
Mechanical fixing interface for gripping system on extraction arm (for each transversal axis)	●
Stamped products unloading axis (2 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	○

Pneumatics**Central carriage unit: (for each transversal axis)**

First and second vacuum line with release blows	●
First pressure circuit for mechanical gripper	●
Additional vacuum circuits with release blows	-
Additional pressure circuits for mechanical gripper	-

Unloading axis unit:

First and second pressure circuit for mechanical gripper	●
First and second pressure vacuum circuits with release blows	●

Electronics and Software

Euromap 67 interface	●
Ethernet interface	●
USB interface	●
Socket for digital signals on the wrist (for each transversal axis): 3 (Programmable Input/Output)	●
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