

SM3 TWIN ^{EN}

X-Series evo



CAMPETELLA

Side entry Robot SM3 TWIN X-Series evo

125
Years

our history, our strength

 **Campetella,**
the right way
to save energy.

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SM3 TWIN X-Series evo

The robust and flexible double side-entry robot for stack molding applications

SM3 Twin X-Series is particularly suitable for fast work cycles with high payload, for single or multi-cavity stack moulds. Equipped with 6 independent axes featuring large strokes, it guarantees simple and immediate centring on multiple moulds and IMM.

Self-lubricating sliding blocks with roll-by balls on carbon steel prismatic guides

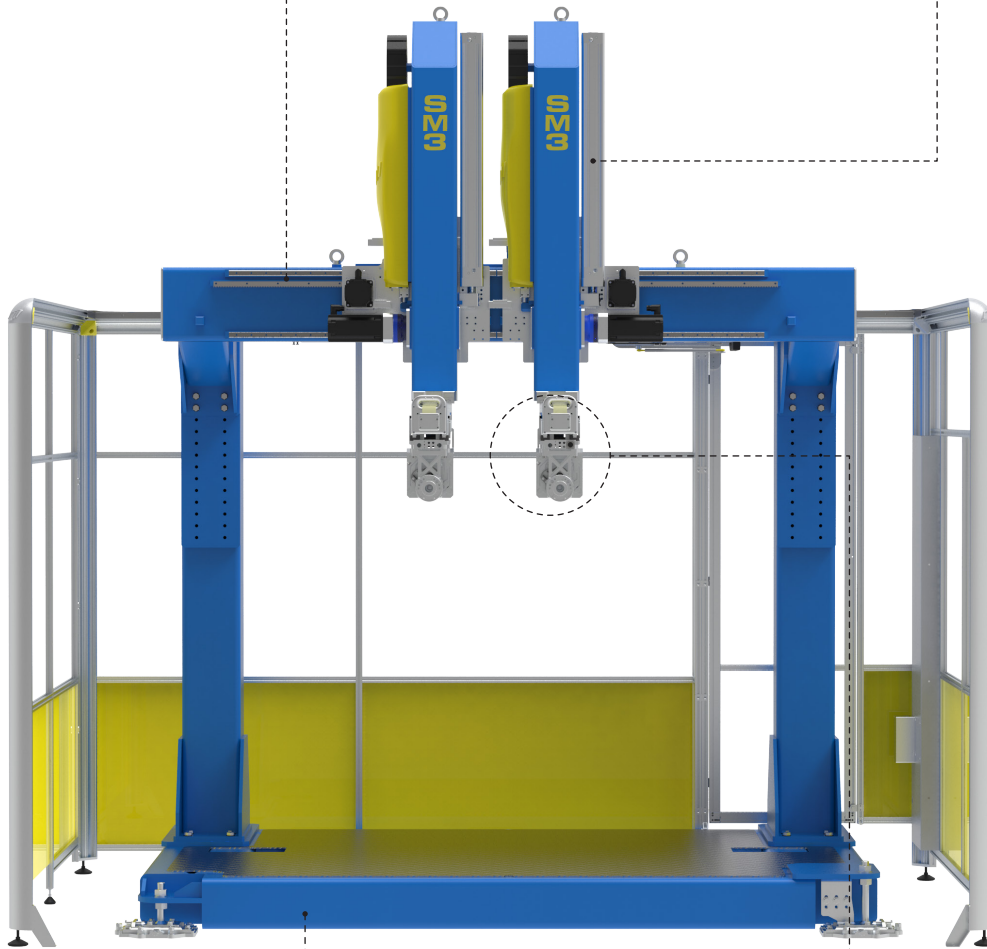
Pneumatic balancing of vertical axis



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.



Sturdy base for resting on floor

Pneumatic C-axis
Maximum Payload 6+6 Kg

Electrical cabinet on the ground



Float
Balanced Axis

Carbon
Technology

Dynamic
Vacuum

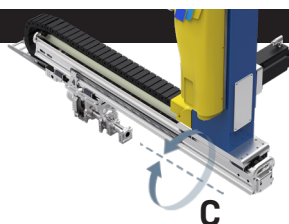
K.E.R.S.

H.S.I.

3DP
Device

V.O.S.

Jog Over



C pneumatic axis

The C pneumatic axis facilitates the deposit in plan of the molded pieces picked up from the mold, choosing from the program between two positions (vertical/horizontal).

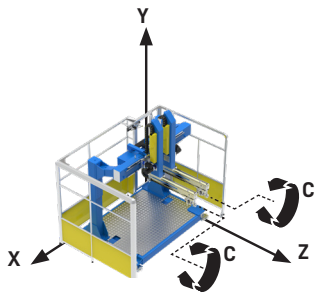
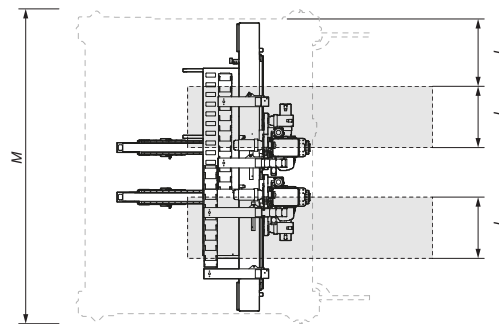
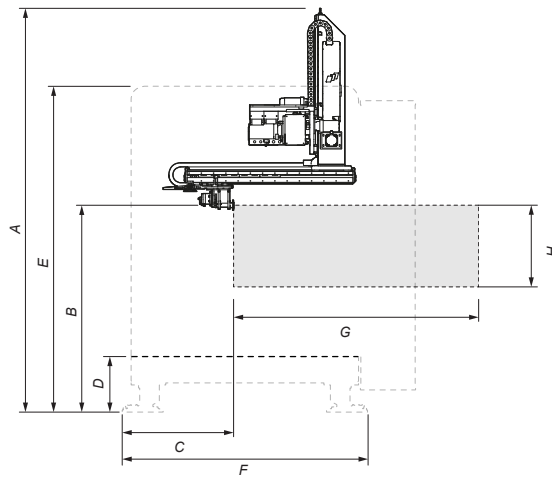
(sample image may differ from actual supply)

SM3 TWIN X-Series evo

SM3 TWIN - 10

Technical specifications

Maximum payload [kg]:	12 (x2)
Vertical axis:	Direct
Vertical axis pneumatic balancing:	•
Z-axis stroke - Horizontal [mm]:	2400 (x2)
X-axis stroke - Extraction [mm]:	800 (x2)
Y-axis stroke - Vertical [mm]:	800 (x2)
X, Y, Z axes motion:	AC synchronous brushless servo motors
X,Y,Z axes guidance system:	Self-lubricating sliding blocks with roll-by balls on carbon steel prismatic guides
Positioning repeatability [mm]:	± 0,1
Pneumatic C axis rotation [deg]:	0°/90°
Electrical C axis rotation [deg]:	0° + 270°
Pneumatic AB axis rotation [deg]:	-
Electrical AB axis rotation [deg]:	-
Electrical B axis rotation [deg]:	-
Pneumatic C axis torque [Nm]:	48
Pneumatic AB axis torque [Nm]:	-
Electrical C axis torque [Nm]:	58,6
Electrical AB axis torque [Nm]:	-
Electrical B axis torque [Nm]:	-
Control unit:	Competella EVO proprietary system
Minimum cycle time with maximum load [s]:	6,0
Electrical power supply:	400-480 VAC • 50-60Hz • 3P+T
Installed electrical power [kVA]:	46,5
Pneumatic power supply [bar]:	6
Peso indicativo [kg]:	3200



Model	A	B	C	D	E	F	G	H	I	L	M
SM3TWIN-10	*	*	*	*	*	*	2400	800	*	800	*

The drawings refer to a robot SM31-0

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

SM3TWIN-10

Wrist

Pneumatic C-axis	●
Pneumatic C-axis + Pneumatic AB-axis	○
Pneumatic C-axis + Electric B-axis	–
Pneumatic C-axis + Pneumatic AB-axis + Electric B-axis	–
Electric C-axis + Electric AB-axis	–

Gripping system Pneumatics

First vacuum circuit with release blows	●
First pressure circuit for mechanical gripper	●
Additional vacuum circuits with release blows	○
Additional pressure circuits for mechanical gripper	○
Kit 4 valves 5/2 monostable + 12 input on the wrist	–
Kit 4 valves 5/2 bistable + 12 input on the wrist	–
Kit 8 valves 5/2 monostable + 12 input on the wrist	–

Electronics and Software

Euromap 67 interface	●
Ethernet interface	●
USB interface	●
Socket for digital signals on the wrist: 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 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	○
IML ready with high-voltage cable (high-voltage wiring for IML predisposition) (3)	○
PLC software integrated into the CNC	○
Off-line programming software	○
Electrowelded steel robot support base:	●
Safety protections with system and interface Euromap 73:	●

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