CL2 EN

E-Series

CAMPETELLA

Linear Robot CL2 E-Series evo

125 Years
our history, our strength

Campetella,
the right way
to save energy.

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CL2 E-Series evo

The suitable robot for small and medium-sized tonnage injection molding machines

Last generation industrial linear robot, designed for high performance, accuracy and reliability. The most advanced functions for the ultimate level of control.

Roller bearings on hardened steel prismatic guides and sliding blocks with roll-by balls

Consolle 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.

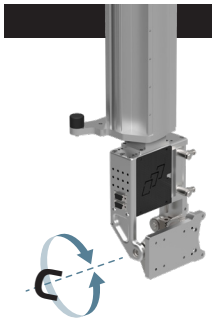
Pneumatic C-axis
Maximum Payload 9Kg

Electrical panel on board

Campetella, the right way to save energy.

Float Balanced Axis | Carbon Technology | Dynamic Vacuum | K.E.R.S. | H.S.I. | 3DP Device | V.O.S. | Jog Over

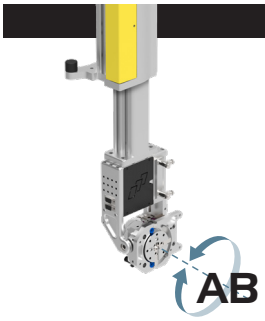
Pneumatic C Axis



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)

Pneumatic AB Axis



For applications that require it, it is possible to choose the wrist with the additional pneumatic axis AB, which allows the rotation on its axis of the end of tool arm by choosing from the program between two positions mechanically fixed on the 0 ° -90 ° or 0 ° -180

(sample image may differ from actual supply)

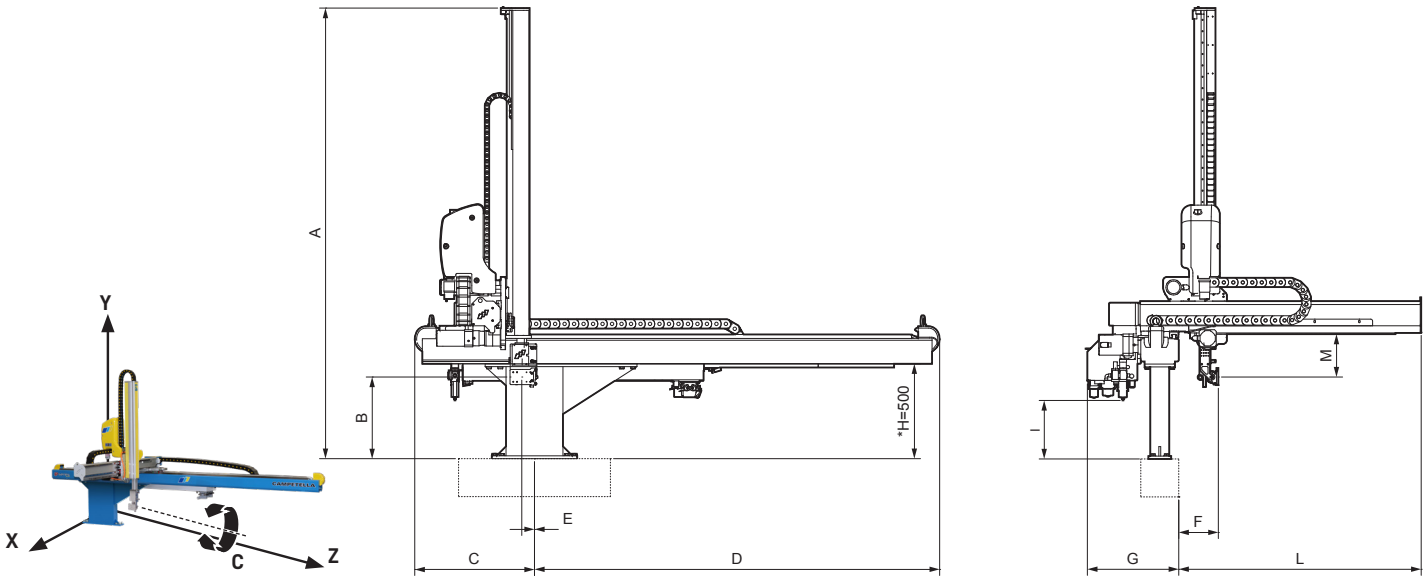
Electric B Axis

The B interpolated electrical axis, can be added when both have the need to rotate the wrist on itself in different positions, both in the case of palletization, or simply choose from program the side of the mold on which to intervene.

(sample image may differ from actual supply)

CL2 E-Series evo

	CL2 - 1 A	CL2 - 1 L	CL2 - 2 A	CL2 - 2 L	CL2 - 3 A	CL2 - 3 L
Technical specifications						
Maximum Payload [kg]:	9	9	9	9	9	9
Vertical axis:	Direct	Telescopic	Direct	Telescopic	Direct	Telescopic
Vertical axis pneumatic balancing:	-	-	-	-	-	-
Z-axis stroke - Horizontal [mm]:	2000	2000	2500	2500	3000	3000
X-axis stroke - Extraction [mm]:	1000	1000	1000	1000	1000	1000
Y-axis stroke - Vertical [mm]:	1400	1600	1400	1600	1400	1600
X, Y, Z axes motion:	AC synchronous brushless servo motors					
X,Y,Z axes guidance system:	Roller bearings on hardened steel prismatic guides and sliding blocks with roll-by balls					
Positioning repeatability [mm]:	± 0,1					
Pneumatic C axis rotation [deg]:	0°/90°					
Electrical C axis rotation [deg]:	-					
Pneumatic AB axis rotation [deg]:	0°/90° o 0°/180°					
Electrical AB axis rotation [deg]:	-					
Electrical B axis rotation [deg]:	0° ÷ 330°					
Pneumatic C axis torque [Nm]:	21					
Pneumatic AB axis torque [Nm]:	5					
Electrical C axis torque [Nm]:	-					
Electrical AB axis torque [Nm]:	-					
Electrical B axis torque [Nm]:	15					
Control unit:	Campetella EVO proprietary system					
Minimum cycle time with maximum load [s]:	8					
Electrical power supply:	230 VAC • 50-60Hz • 1P + N + T					
Installed electrical power [kVA]:	5,96					
Pneumatic power supply [bar]:	6					
Approximate weight [kg]:	450					



Model	A	B	C	D	E	F	G	H	I	L	M
CL2-1-A	2375	430	631	2135	67	209	482	*	N/A	1278	226
CL2-2-A	2375	430	609	2637	45	209	482	*	N/A	1278	226
CL2-3-A	2375	430	615	3171	50	209	482	*	N/A	1278	226
CL2-1-L	1877	430	631	2135	67	209	482	*	N/A	1278	243
CL2-2-L	1877	430	609	2637	45	209	482	*	N/A	1278	243
CL2-3-L	1877	430	615	3171	50	209	482	*	N/A	1278	243

The drawings refer to a robot with a pneumatic C-axis and support H = 500mm
*Available standard supports H = 500-600-700-800mm The dimensions A, B and I vary by difference according to the chosen support

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

EQUIPMENT LIST

CL2 E-Series evo

	CL2 - 1 A	CL2 - 1 L	CL2 - 2 A	CL2 - 2 L	CL2 - 3 A	CL2 - 3 L
Wrist						
Pneumatic C-axis	●	●	●	●	●	●
Pneumatic C-axis + Pneumatic AB-axis (1)	○	○	○	○	○	○
Pneumatic C-axis + Electric B-axis (1)	○	○	○	○	○	○
Pneumatic C-axis + Pneumatic AB-axis + Electric B-axis (1)	○	○	○	○	○	○
Electric C-axis + Electric AB-axis (1)	-	-	-	-	-	-
(1) With maximum load reduction [kg]						
Gripping system Pneumatics						
First vacuum circuit with release blows	●	●	●	●	●	●
First pressure circuit for mechanical gripper	●	●	●	●	●	●
Additional vacuum circuits with release blows (n.4 max) (2)	○	○	○	○	○	○
Additional pressure circuits for mechanical gripper (n.4 max) (2)	○	○	○	○	○	○
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	○	○	○	○	○	○
(2) Up to a maximum of 6 pneumatic lines total						
Electronics and Software						
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)	●	●	●	●	●	●
Vertical axis approaching sensor	○	○	○	○	○	○
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	○	○	○	○	○	○

* 2 dedicated inputs to optional pneumatic AB axis

(3) Not compatible with electrical axis on the wrist.

Accessories

IMM connecting cable:

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

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

Electrowelded steel robot support base (●):

Available heights [mm]: 500 , 600 , 700, 800

Adapter counter plate (-) :

Euromap 18 hole pattern available:E8-E9 , E10 , E11 , E12-E13

NOTE: Custom supports and counter plate available on demand

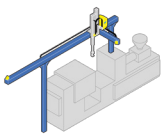
Additional ground base to horizontal axis support(○)

EVO console cable winder (○)

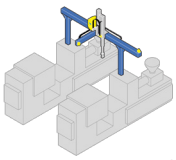
● Standard ○ Optional – Not available

SPECIAL CONFIGURATION

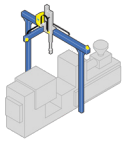
Longitudinal discharge application



Double IMM application



Portal application



Campetella Robotic Center Srl

Via Grazia Deledda, 40/42 - 62010 Montecassiano (MC) - Italy Tel. (+39) 0733 29891 - Fax. (+39) 0733 298912 - www.campetella.com - commerciale@campetella.it