

C01-C02^{EN}

E-Series



CAMPETELLA

Linear Robot C01-C02 E-Series evo

125
Years

our history, our strength

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

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EVO

C01-C02 E-Series evo

The compact 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

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.

Pneumatic C-axis
Maximum Payload 9Kg

Electrical panel on board



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

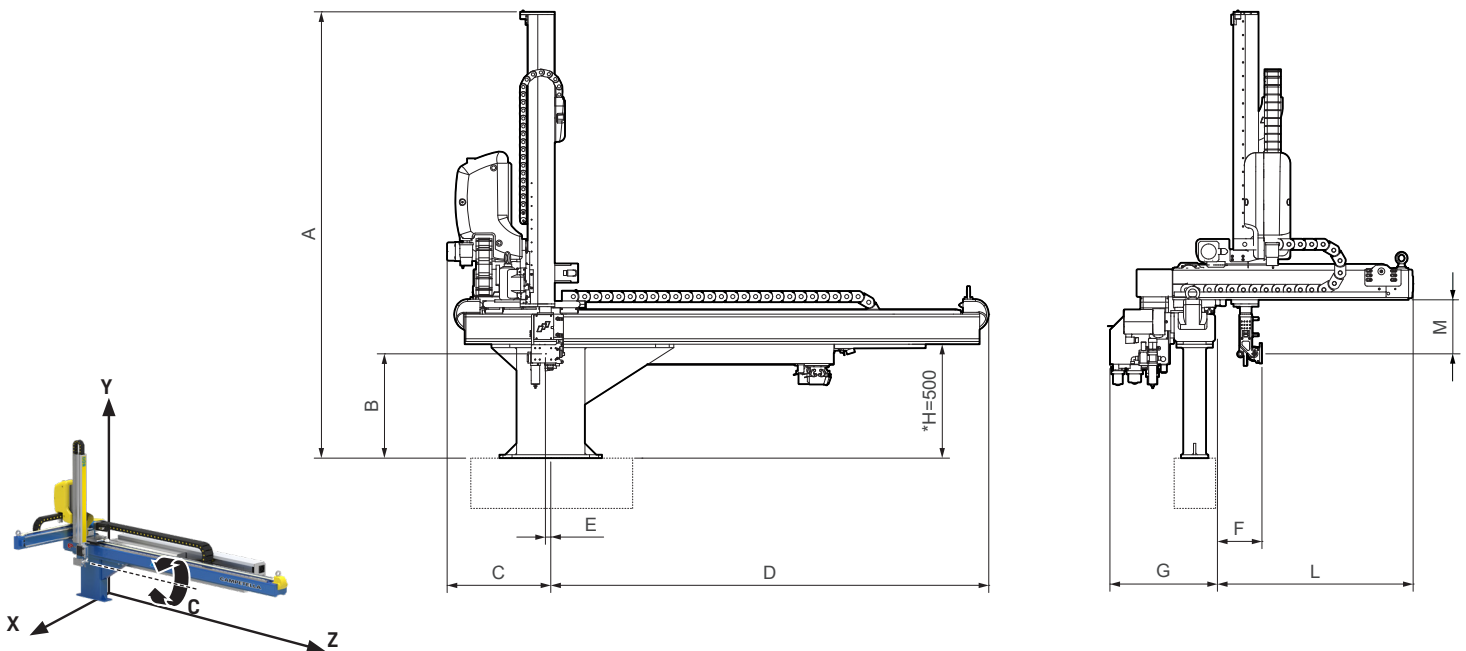
The B interpolated electrical axis, can be added when both have the need to rotate the wrist on itself in different positions, both in the case of palletization, or simply choose from program the side of the mold on which to intervene.



(sample image may differ from actual supply)

C01-C02 E-Series evo

	C01 - 1 A	C01 - 1 L	C02 - 1 A	C02 - 1 L	C02 - 2 A	C02 - 2 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]:	1600	1600	2000	2000	2500	2500
X-axis stroke - Extraction [mm]:	600	600	700	700	700	700
Y-axis stroke - Vertical [mm]:	1000	1000	1200	1400	1200	1400
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]:	280					



Model	A	B	C	D	E	F	G	H	I	L	M
C01-1-A	1959	458	455	1922	24	195	472	*	N/A	859	237
C02-1-A	2169	468	630	2136	150	195	492	*	N/A	991	237
C02-2-A	2169	468	608	2639	125	195	492	*	N/A	991	237
C01-1-L	1578	458	455	1922	24	195	472	*	N/A	869	237
C02-1-L	1796	468	630	2136	150	195	492	*	N/A	991	237
C02-2-L	1796	468	608	2639	125	195	492	*	N/A	991	237

The drawings refer to a robot with a pneumatic C-axis and support H = 500mm

*Available standard supports H = 400- 500-600-700mm 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.

	C01-1A	C01-1L	C02-1A	C02-1L	C02-2A	C02-2L
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

Electronica e 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	○	○	○	○	○	○

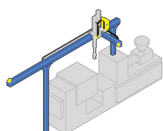
* 2 dedicated inputs to optional pneumatic AB axis

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

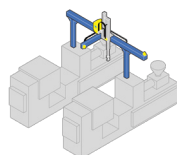
Accessories						
IMM connecting cable:						
For Euromap 67 interface, available lengths [m]: 10 (●) 12 (○) 14 (○)						
For JIS interface, available lengths [m]: 10 (○)						
Electrowelded steel robot support base (●):						
Available heights [mm]: 400, 500, 600, 700						
Adapter counter plate (-):						
Euromap 18 hole pattern available: E8-E9, E10, E11, E12-E13						
NOTE: Custom supports and counter plate available on demand						
Piede aggiuntivo aggiuntivo a terra per supporto trave (○):						
Additional ground base to horizontal axis support (○)						
EVO console cable winder (○)						
● Standard ○ Optional – Not available						

SPECIAL CONFIGURATION

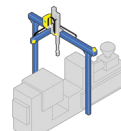
Longitudinal discharge application



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