

RHEA ^{EN}

PRIME-Series



CAMPETELLA

LinearRobot RHEA PRIME-Series

125
Years

our history, our strength

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

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Prime
series

RHEA PRIME-Series

Ultra-compact, ultra-fast. Ideal for small-sized injection molding machines

Minimal design, a mix of functionality and accuracy, this is the top-entry Cartesian industrial robot designed to offer high performance in the highest quality-price ratio.

Electrical panel on board

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

Console PRIME



The User interface is characterised by a portable ergonomic console manufactured in carbon fibre to minimise weight and maximise strength; it is connected by a 5 m cable. It has a 4.3" graphical colour display with knob for browsing the menus, keys dedicated to direct movement of the axes, safety button and operator presence button.

Furthermore, the presence of a USB port allows copying, exporting and importing of the "work files" and the "set-ups" on computer or other robots.

Pneumatic C-axis
Maximum Payload 2 Kg



Float
Balanced Axis

Carbon
Technology

Dynamic
Vacuum

K.E.R.S.

H.S.I.

3DP
Device

V.O.S.

Jog Over

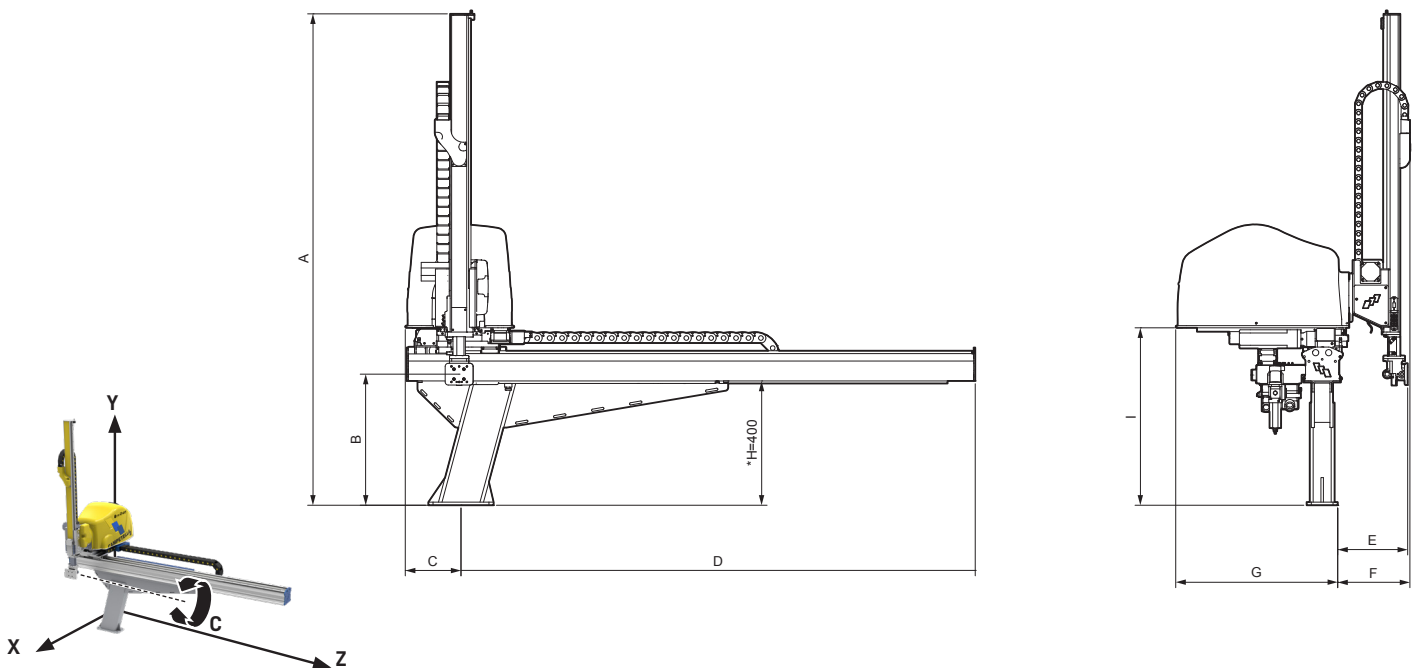
Pneumatic C Axis

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)

Technical specifications			
Maximum Payload [kg]:	2		2
Vertical axis:	Direct		Direct
Vertical axis pneumatic balancing:	-		-
Z-axis stroke - Horizontal [mm]:	1200		1500
X-axis stroke - Extraction [mm]:		300	
Y-axis stroke - Vertical [mm]:	800		800
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]:		-	
Electrical AB axis rotation [deg]:		-	
Electrical B axis rotation [deg]:		-	
Pneumatic C axis torque [Nm]:		5	
Pneumatic AB axis torque [Nm]:		-	
Electrical C axis torque [Nm]:		-	
Electrical AB axis torque [Nm]:		-	
Electrical B axis torque [Nm]:		-	
Control unit:	Competella PRIME proprietary system		
Minimum cycle time with maximum load [s]:		5	
Electrical power supply:	230 VAC • 50-60Hz • 1P + N + T		
Installed electrical power [kVA]:		3,15	
Pneumatic power supply [bar]:		6	
Approximate weight [kg]:		100	



Model	A	B	C	D	E	F	G	H	I
SP3 RHEA - 1 A	1581	422	179	1355	225	233	521	*	571
SP3 RHEA - 2 A	1581	422	179	1655	225	233	521	*	571

The drawings refer to a robot with a pneumatic C-axis and support H = 400mm

*Available standard supports H = 400-500mm The dimensions A, B and I vary by difference according to the chosen support

	RHEA - 1 A	RHEA - 2 A
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.1 max)	○	○
Additional pressure circuits for mechanical gripper (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	-	-

Electronics and Software		
Euomap 67 interface	●	●
Ethernet interface ⁽³⁾	○	○
USB interface	●	●
Socket for digital signals on the wrist: 2(Input)	●	●
Socket for user safety signals	●	●
Connettore gestione nastro trasportatore: 1 (Output Relè)	●	●
Socket for conveyor belt signals: 2 (Input) + 2 (Output)	●	●
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 ⁽⁴⁾	-	-
PLC software integrated into the CNC	-	-
Off-line programming software	-	-

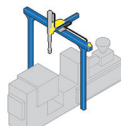
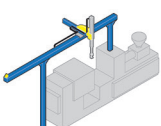
(3) Bound to purchase of kit industry 4.0 (4) Not compatible with electrical axis on the wrist.

Accessories		
IMM connecting cable:		
For Euomap 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		
Adapter counter plate (○) :		
Euomap 18 hole pattern available: E7, E8-E9		
NOTE: Custom supports and counter plate available on demand		
Additional ground base to horizontal axis support(-)		
Pushbutton remote control panel for basic functions(-)		
EVO console cable winder (-)		
● Standard ○ Optional – Not available		

SPECIAL CONFIGURATIONS

Longitudinal discharge 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