

SP3C^{EN}

PRIME-Series



CAMPETELLA

Sprue Picker SP3C PRIME-Series

125
Years

our history, our strength



*Campetella,
the right way
to save energy.*

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Prime
series

SP3C PRIME-Series

The most compact and functional Cartesian sprue picker

The latest generation sprue picker to combine low power consumption and high reliability with maximum performance. Equipped with 3 servo-driven axes, run by advanced electronics, it allows quick movements and an unthinkable productivity.

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.



Float
Balanced Axis

Carbon
Technology

Dynamic
Vacuum

K.E.R.S.

H.S.I.

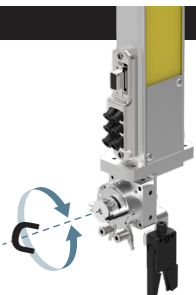
3DP
Device

V.O.S.

Jog Over

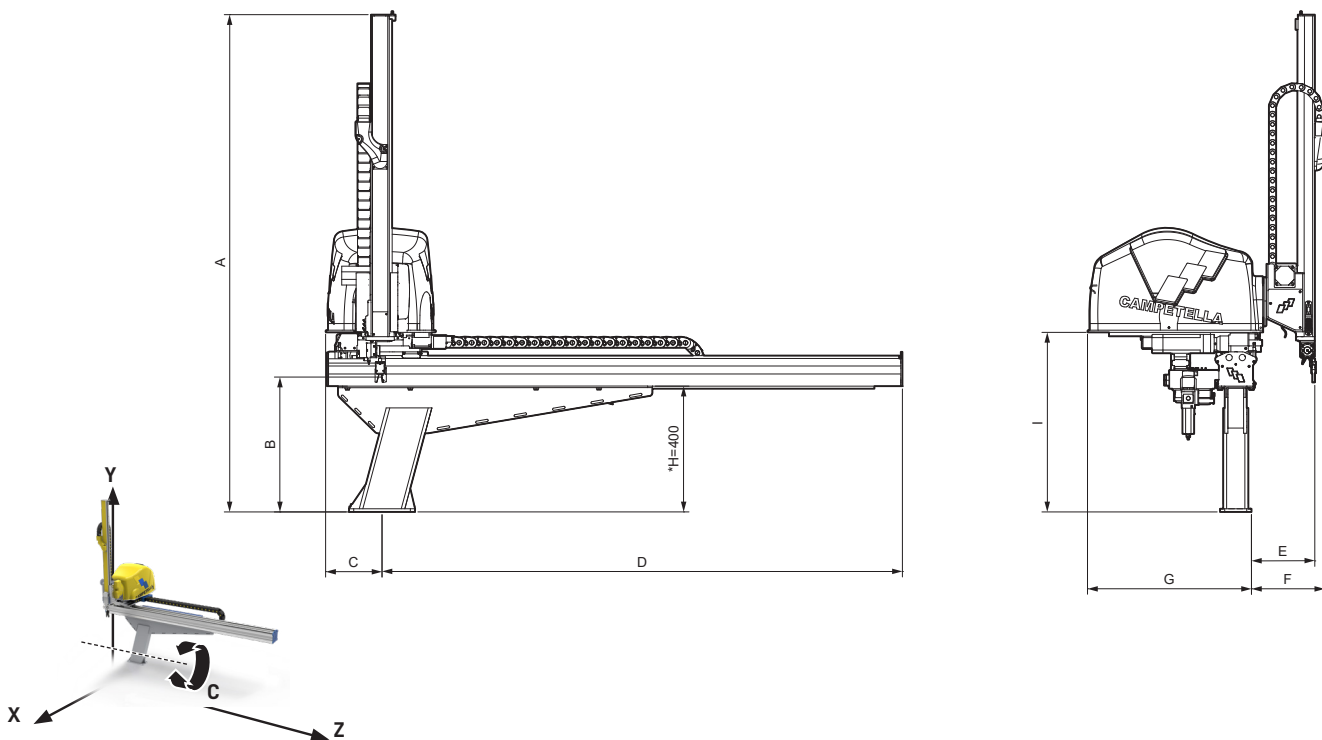
Pneumatic C Axis

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			
Number of linear axes:	3 (X,Y,Z)		3 (X,Y,Z)
Number of rotary axes:	-		-
Vertical axis:	Direct		Direct
A-Axis rotation - Vertical [deg]:		-	
Pneumatic rotating base rotation [deg]:		-	
Z-axis stroke - Horizontal [mm]:	1200		1500
X-axis stroke - Extraction [mm]:		300	
Y-axis stroke - Vertical [mm]:		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	
Gripper rotation (pneumatic C axis rotation) [deg]:		0° / 90°	
Pneumatic C axis torque [Nm]:		1,25	
Control unit:	Campetella PRIME proprietary system		
Minimum cycle time with maximum load [s]:		4	
Electrical power supply:	230 VAC • 50-60Hz • 1P + N + T		
Installed electrical power [kVA]:		2,40	
Pneumatic power supply [bar]:		6	
Approximate weight [kg]:		100	



Model	A	B	C	D	E	F	G	H	I
SP3C-1A	1581	429	179	1355	201	233	521	*	571
SP3C-2A	1581	429	179	1655	201	233	521	*	571

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

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

	SP3C - 1 A	SP3C - 2 A
Gripper		
Pneumatic gripper	●	●
Gripper rotation (Pneumatic B-axis)	●	●
First vacuum circuit with release blows	●	●
Additional vacuum circuits with release blows	-	-
Additional pressure circuits for mechanical gripper (max. 1)*	○	○

* Excluding the first additional vacuum circuit with release blows

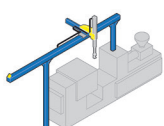
Electronics and Software		
Euromap 67 interface	●	●
Ethernet interface ⁽³⁾	○	○
USB interface	●	●
Socket for digital signals on the wrist: 2(Input)	●	●
Socket for user safety signals	-	-
Connettore gestione nastro trasportatore: 1 (Output Relè)	●	●
Socket for external digital signals:	-	-
Vertical axis 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

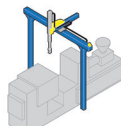
Accessories		
IMM connecting cable:		
For Euromap 67 interface, available lengths [m]: 10 (●) 12 (○) 14 (○)		
For JIS interface, available lengths [m]: 10 (○)		
Electrowelded steel robot support base (●):		
Available heights [mm]:400		
Additional spacer for vertical axis: (○)		
Height 200 mm:		
Adapter counter plate (○) :		
Euromap 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



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