

# GS3W<sup>EN</sup>

## X-Series<sup>evo</sup>



**CAMPETELLA**

Linear Robot GS3W X-Series evo

**125**  
*Years*

our history, our strength

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

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**X**series  
EVO

# GS3W X-Series evo

## The sturdy and ultra-fast top-entry robot with minimal footprint for stack-moulding applications

A top-entry premium class robot with double vertical axis designed for the most extreme performances: ultra-high-performance motors combined with materials used in the aerospace industry ensure record-breaking accelerations and speed, for operating cycle times of up to 4.9 seconds.

Carbon technology

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

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 8 Kg(x2)

Electrical panel on the ground



Float  
Balanced Axis

Carbon  
Technology

Dynamic  
Vacuum

K.E.R.S.

H.S.I.

3DP  
Device

V.O.S.

Jog Over

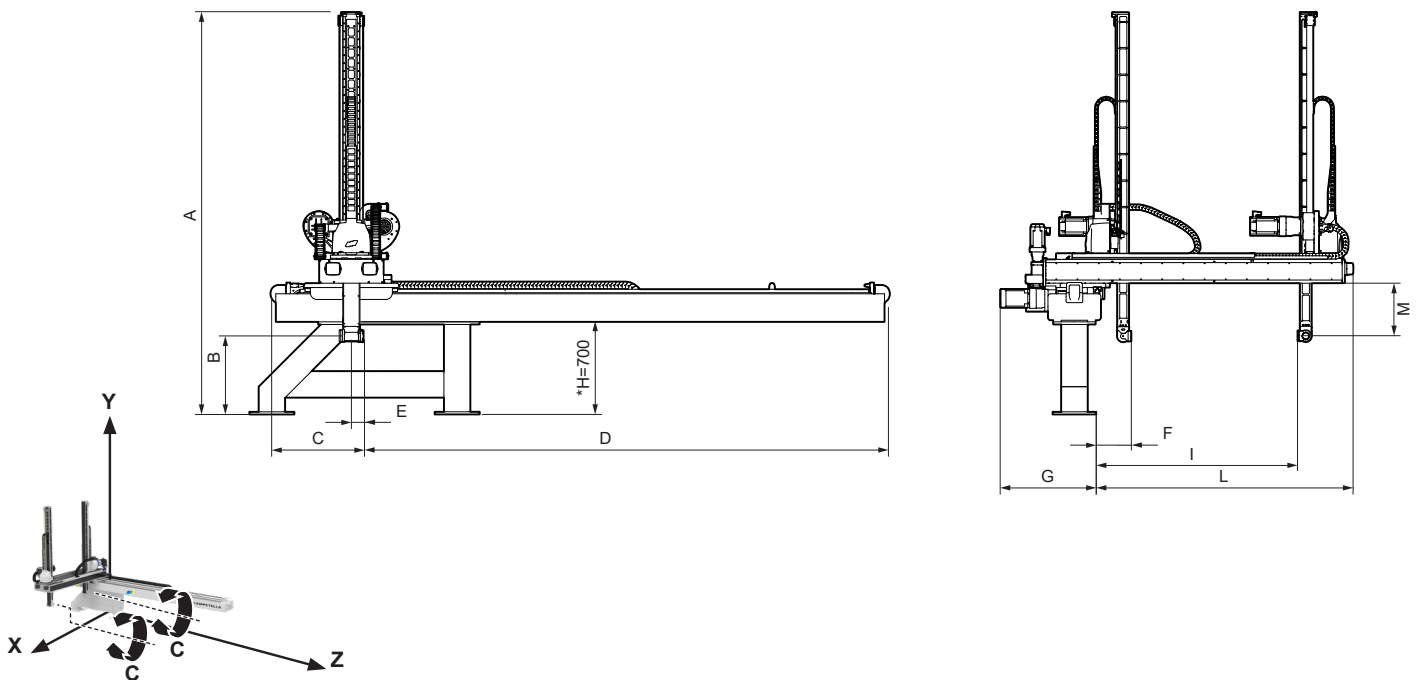
### Electric C Axis



For more advanced applications that require maximum levels of agility and dexterity, there is also a version with electric wrist available.

(sample image may differ from actual supply)

	GS3W-1B	GS3W-2B	GS3W-3B
<b>Technical specifications:</b>			
Maximum Payload [kg]:	8 (x2)	8 (x2)	8 (x2)
Vertical axis:	Direct	Direct	Direct
Vertical axis pneumatic balancing:	-	-	-
Z-axis stroke - Horizontal [mm]:	2500	3000	3500
X - axis stroke - Extraction [mm]:		800 (x2)	
Y-axis stroke - Vertical [mm]:		1500 (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]:		-	
Electrical C axis rotation [deg]:		-90° ÷ +90°	
Pneumatic AB axis rotation [deg]:		-	
Electrical AB axis rotation [deg]:		-	
Electrical B axis rotation [deg]:		-	
Pneumatic C axis torque [Nm]:		-	
Pneumatic AB axis torque [Nm]:		-	
Electrical C axis torque [Nm]:		25	
Electrical AB axis torque [Nm]:		-	
Electrical B axis torque [Nm]:		-	
Control unit:	Campetella EVO proprietary system		
Minimum cycle time with maximum load [s]:		4,9	
Electrical power supply:	400-480 VAC • 50-60Hz • 3P+T		
Installed electrical power [kVA]:		53,96	
Pneumatic power supply [bar]:		6	
Approximate weight [kg]:		900	



Model	A	B	C	D	E	F	G	H	I	L	M
GS3W-1B	3043	593	702	2960	98	266	726	*	1521	1941	396
GS3W-2B	3043	593	727	3435	123	266	726	*	1521	1941	396
GS3W-2B	3043	593	677	3985	73	266	726	*	1521	1941	396

The drawings refer to a robot with a electric C-axis and support H = 700mm

\*Available standard supports H = 700-800-900mm The dimensions A, B and I vary by difference according to the chosen support

	GS3W-1B	GS3W-2B	GS3W-3B
<b>Wrist</b>			
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	●	●	●
	-	-	-
<b>Gripping system Pneumatics</b>			
First vacuum circuit with release blows	●	●	●
First pressure circuit for mechanical gripper	●	●	●
Additional vacuum circuits with release blows (n.4 max)	-	-	-
Additional pressure circuits for mechanical gripper (n.4 max)	-	-	-
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	-	-	-
<b>Electronics and Software</b>			
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	○	○	○

(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]: 700, 800, 900

**Adapter counter plate (-):**

Euromap 18 hole pattern available: E16;E17;E18;E19

NOTE: Custom supports and counter plate available on demand

**Additional ground base to horizontal axis support(○)****Basic remote control pushbutton panel (○)****EVO console cable winder (○)**

● Standard ○ Optional – Not available

**SPECIAL CONFIGURATION**

Portal application

