

# SPIN3 <sup>EN</sup>

X-Series



**CAMPETELLA**

Scara Robot SPIN3 X-Series evo

**125**  
*Years*

our history, our strength

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

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**X**series  
EVO

# SPIN3 X-Series evo

## Powerful and sturdy, the SCARA dedicated to heavy weights

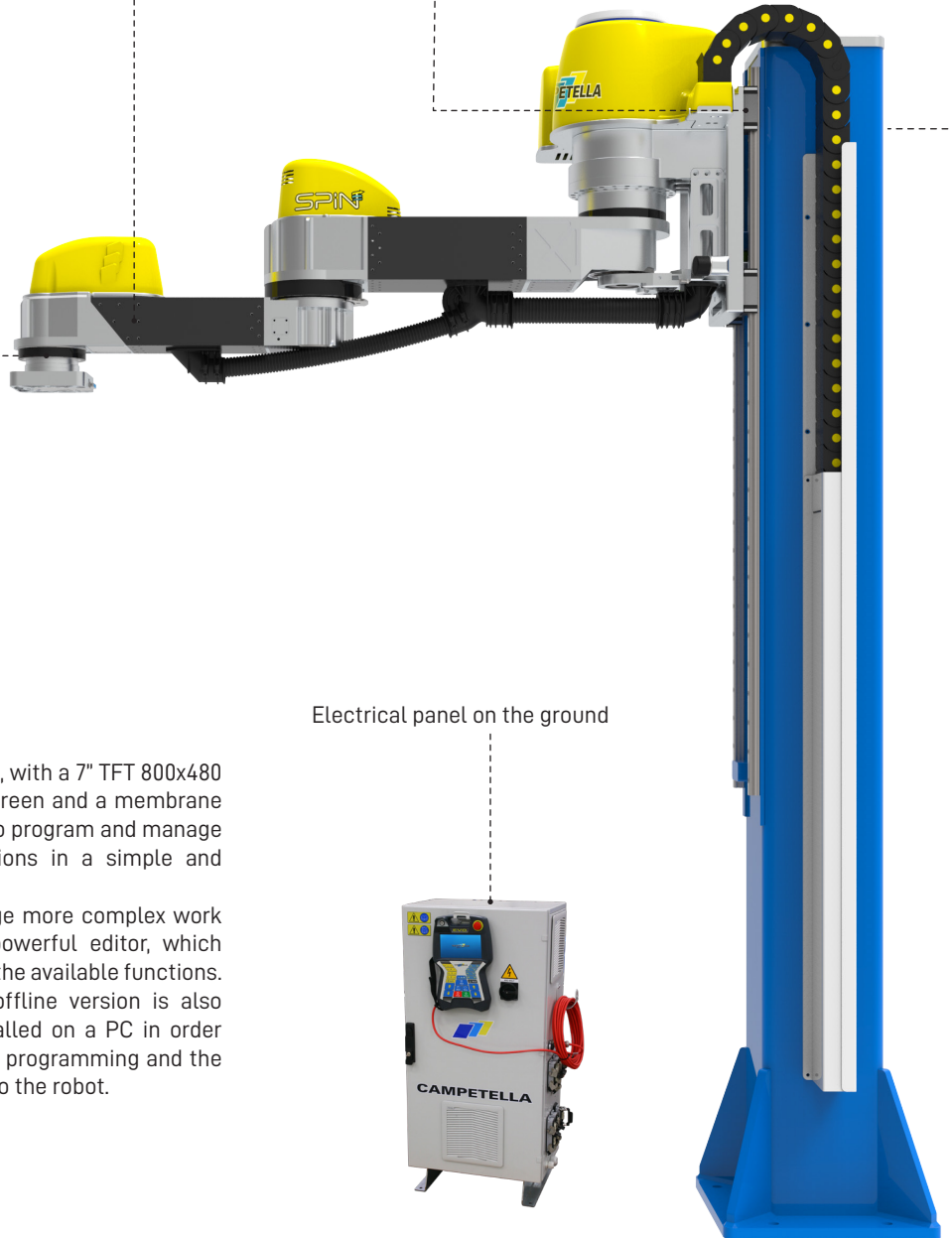
Spin 2's bigger brother, it is muscled up with more powerful motors and even longer arms, with increased sections. The result is a SCARA robot that can handle generous loads in an extremely wide working space, with heights that can only be achieved by humungous six-axle robots with an often oversized payload.

Mechanical fixing interface for gripping system

Carbon technology

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

Vertical axis pneumatic balancing



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. 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.



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

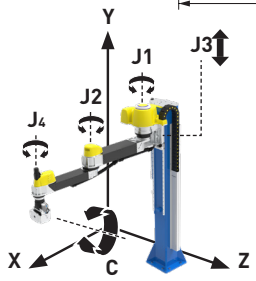
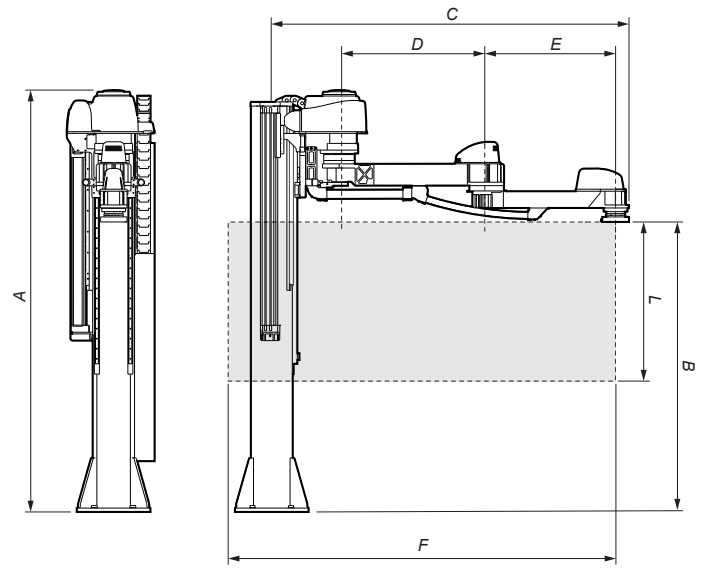
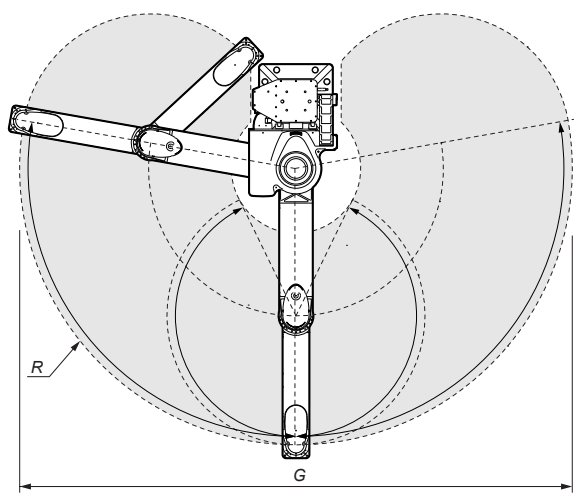
### Electric C-axis



For more advanced applications that require maximum levels of agility and dexterity, there is also a version with electric wrist available, resulting in a servo-controlled five-axle robot.

(sample image may differ from actual supply)

Technical specifications:			
Maximum payload [kg]:	50		50
Range[mm]:	1200		1650
Number of servo-driven axes:	4 + 1*		4 + 1*
<b>Working area:</b>			
Rotation J1 [deg]:	±100°		±100°
Rotation J2 [deg]:	±154°		±154°
J3-axis stroke - Vertical [mm]:	950		950
Rotation J4 [deg]:	±660°		±660°
<b>Maximum speeds:</b>			
J1-axis rotation [deg/s]:	200		200
J2-axis rotation [deg/s]:	240		240
J3-axis stroke - Vertical [mm/s]:	2400		2400
J4-axis rotation [deg/s]:	370		370
Axes motion:	AC synchronous brushless servo motors		
Positioning repeatability [mm]:	± 0,1		± 0,1
Control unit:	Campetella EVO proprietary system		
Electrical power supply:	400-480 VAC • 50-60Hz • 3P+T		
Installed electrical power [kVA]:	20,0		20,0
Pneumatic power supply [bar]:		6	
Approximate weight [kg]:		450	



Modello	A	B	C	D	E	F	G	L	R
SPIN3-1200	2450	1730	1600	650	550	1863	2400	950	1200
SPIN3-1650	2450	1730	2052	880	770	2570	3300	950	1650

The drawings refer to a robot model Spin3-1650

	SPIN3-1200	SPIN3-1650
<b>Robot supporting column</b>		
With integrated vertical axis J3	•	•
NOTE: Custom supports available on demand		
<b>Wrist</b>		
Mechanical fixing interface for gripping system	•	•
Electric C-axis*	○	○
Pneumatic C-axis	–	–
(*) With maximum load reduction to 30Kg		
<b>Gripping system pneumatics</b>		
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 (n.3 max)	○	○
<b>Electronics and software</b>		
Socket for external digital signals: 11 (Input) + 11 (Output relay)	•	•
Socket for digital signals: 4 (Input) + 3 (Output relay)	•	•
Ethernet interface	•	•
USB interface	•	•
Socket for digital signals on the wrist: 5* (Programmable Input/Output)	•	•
Socket for user safety signals	•	•
Socket for conveyor belt signals: 1 (Input) + 2 (Output) + 1 (Relais Output)	•	•
Industry 4.0 kit (ethernet router + software)	○	○
Board kit I/O external 16I + 16O with 8mt cable	○	○
Electrical cabinet on the ground	•	•
Ground cabinet air conditioning	○	○
PLC software integrated into the CNC	○	○
Off-line programming software	○	○
* Optional additional vacuum circuits absorbs n.1 digital wrist signal		

**Accessories**

IMM connecting cable: (○):

**Remote push-button panel**(○)**EVO console cable winder** (○)

• Standard ○ Optional – Not available