

SPIN1^{EN}

X-Series



CAMPETELLA

Scara Robot SPIN1 X-Series evo

125
Years

our history, our strength

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

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Xseries
EVO

SPIN1 X-Series evo

The innovative high-speed SCARA.

Spin 1 X-Series revolutionises the world of ultra-fast SCARA robots. Using latest-generation technologies and materials, including carbon fibres and additive moulding, it ensures limited weight, high performance and lower power consumption.

Spin 1 X-Series is a compact SCARA robot, designed to ensure reduced cycle times in quick pick & place applications with payloads of up to 2 kg.

Mechanical fixing interface for gripping system
Maximum Payload 2Kg

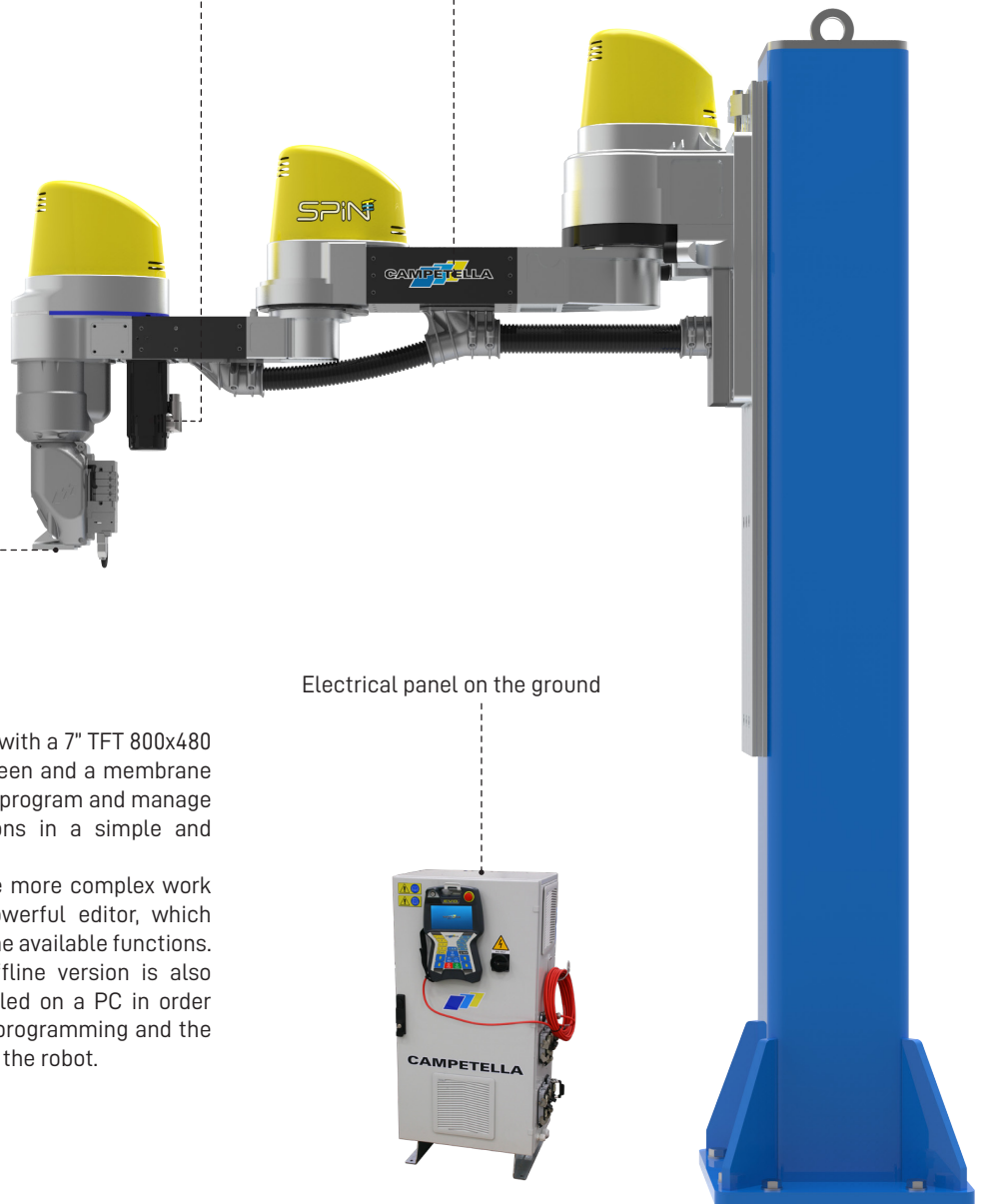
AC synchronous brushless servo motors
Carbon technology

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.

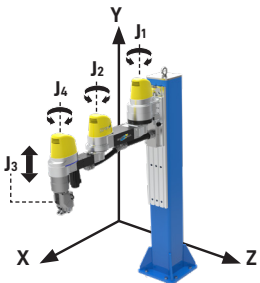
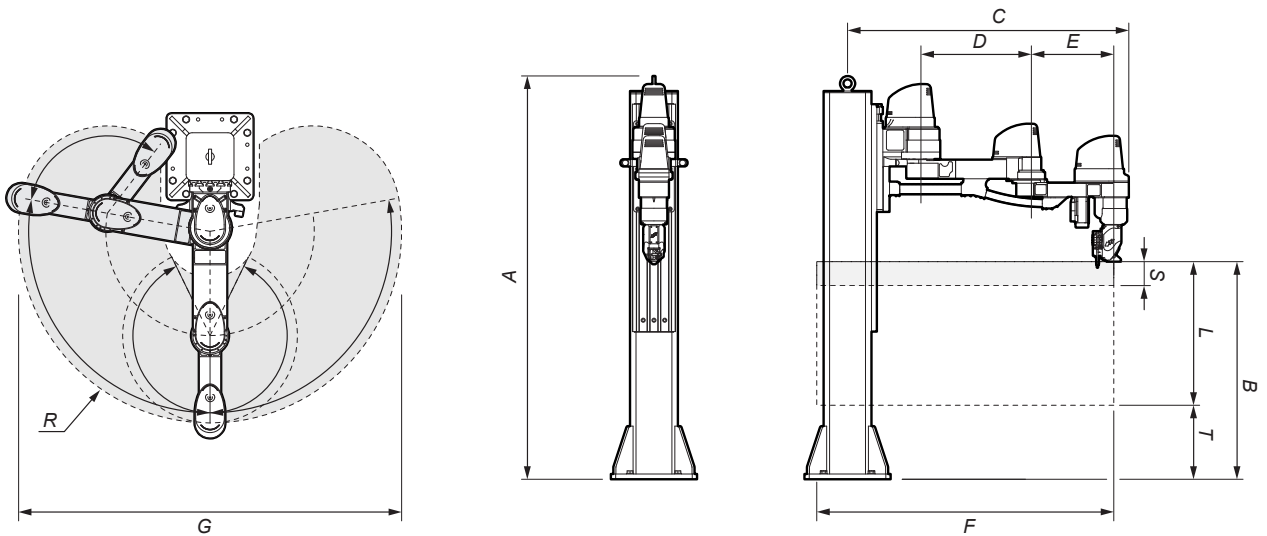
In order to encourage more complex work cycles, we use a powerful editor, which allows to access all the available functions. The EVO software offline version is also available to be installed on a PC in order to permit the offline programming and the remote connection to the robot.

Electrical panel on the ground



Technical specifications:

Maximum payload [kg]:	2
Range[mm]:	800
Number of servo-driven axes:	4
Working area:	
Rotation J1 [deg]:	±100
Rotation J2 [deg]:	±154
J3-axis stroke - Vertical [mm]:	100
Rotation J4 [deg]:	±660
Maximum speeds:	
J1-axis rotation [deg/s]:	300
J2-axis rotation [deg/s]:	470
J3-axis stroke - Vertical [mm/s]:	800
J4-axis rotation [deg/s]:	450
Axes motion:	AC synchronous brushless servo motors
Positioning repeatability [mm]:	± 0,1
Control unit:	Campetella EVO proprietary system
Electrical power supply:	400-480 VAC • 50-60Hz • 3P+T
Installed electrical power [kVA]:	13,7
Pneumatic power supply [bar]:	6
Approximate weight [kg]:	150



Modello	A	B	C	D	E	F	G	L	R	S	T
SPIN1-800HS	1620	410-980*	1112	450	365	1241	1600	670*	800	100	310

*The quota is manually adjustable
The drawings refer to the model Spin1-800HS

SPIN1-800HS

Supporting column with slide for manual robot height adjustment

EOA height adjustment from the ground: 400 - 900 mm

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Wrist

Mechanical interface for gripping system

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Gripping system pneumatics

First vacuum circuit with release blows

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First pressure circuit for mechanical gripper

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Additional vacuum circuits with release blows

-

Additional pressure circuits for mechanical gripper

-

Electronica e software

Socket for external digital signals: 11 (Input) + 11 (Output relay)

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Socket for digital signals: 4 (Input) + 3 (Output relay)

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Ethernet interface

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USB interface

•

EOA Socket for digital signals: 3 (Programmable Input/Output)

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Socket for user safety signals

•

Socket for conveyor belt signals: 1 (Input) + 2 (Output) + 1 (Relais Output)

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Industry 4.0 kit (ethernet router + software)

○

Board kit I/O external 16I + 16O with 8mt cable

○

Electrical cabinet on the ground

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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