

MODULA mini ^{EN}

X-Series



CAMPETELLA

Side entry Robot MODULA mini X-Series evo

 *Campetella,
the right way
to save energy.*

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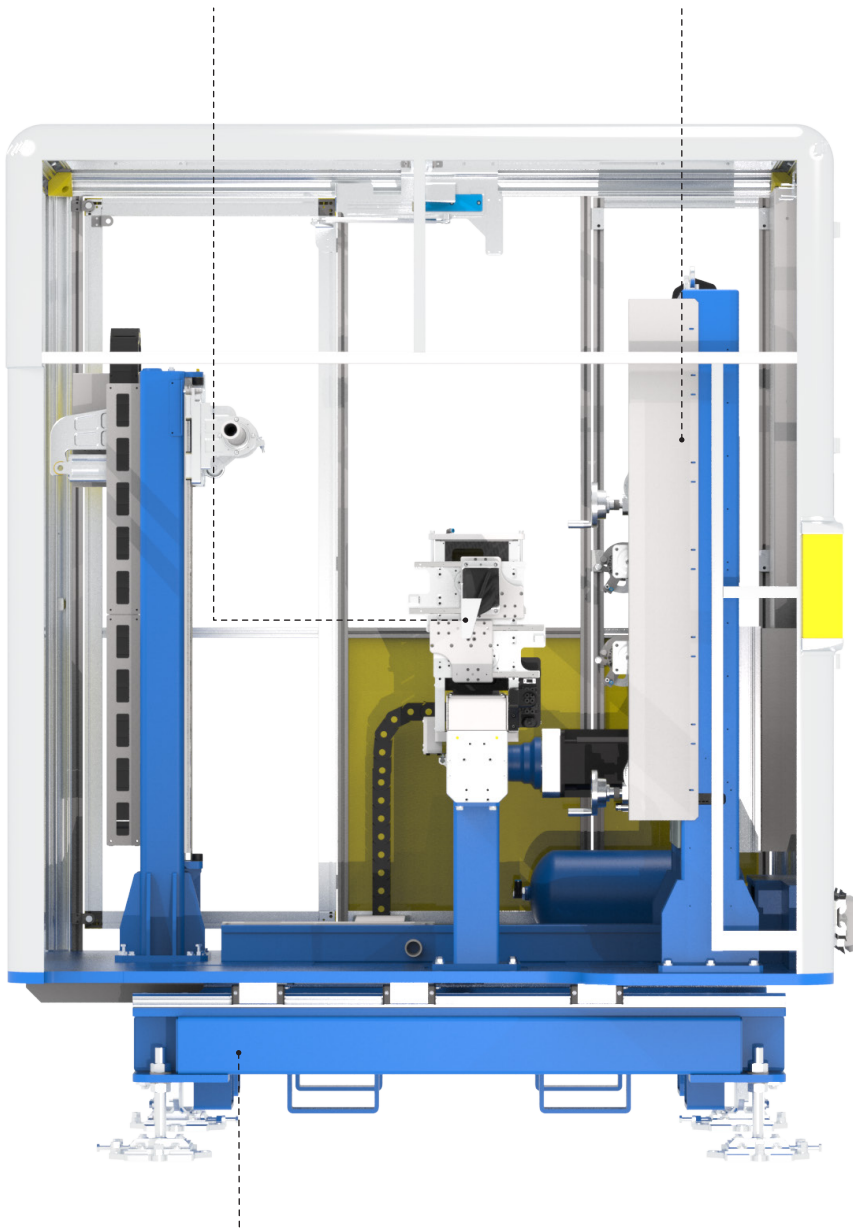
MODULA mini X-Series evo

The compact and ultra-fast side-entry

The little brother of Modula X-Series, the Mini model reduces travels and ranges, but certainly not its unmistakable calling for maximum performances, all the while maintaining the powerful brushless servo motors and reducing the moving masses. Modula Mini X-Series is the fastest of Campetella's side-entry robots, allowing for cycle times close to 2 seconds.

Carbon fiber arm with twisted profile

Electrical panel on board



Sturdy base for resting on floor



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.

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.

MODULA mini X-Series evo

MODULA mini

Technical specifications:

Maximum payload [kg]: 10

Strokes of main axes:

1 - Z Axis - transversal [mm]: 2150

2 - X Axis - extraction arm [mm]: 150

3 - Y Axis - additional extraction arm [mm]*: 150

4 - Unloading axis - transversal [mm]: 1300

Axis movement: AC synchronous brushless servo motors

Axes guidance system: Self-lubricating sliding blocks with roll-by balls on carbon steel prismatic guides

Positioning repeatability [mm]: $\pm 0,1$

Pneumatic unloading axis rotation [deg]: $0^{\circ}/90^{\circ}$

Control unit: Campetella EVO proprietary system

Minimum cycle time with maximum load [s]: 2

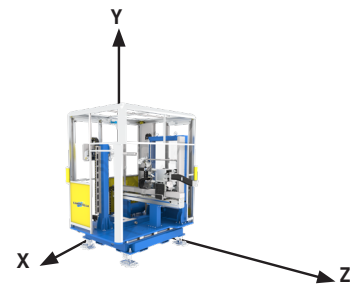
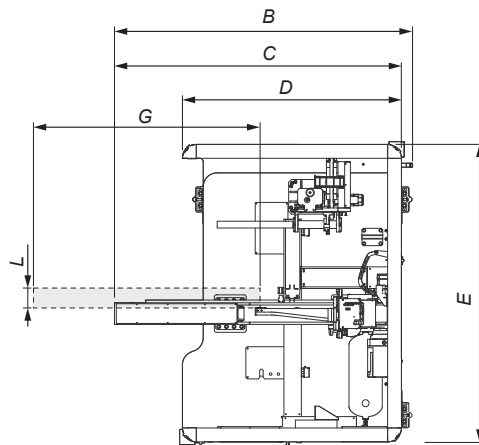
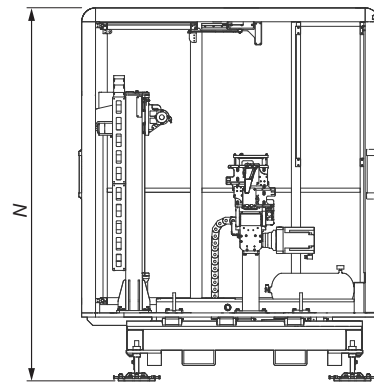
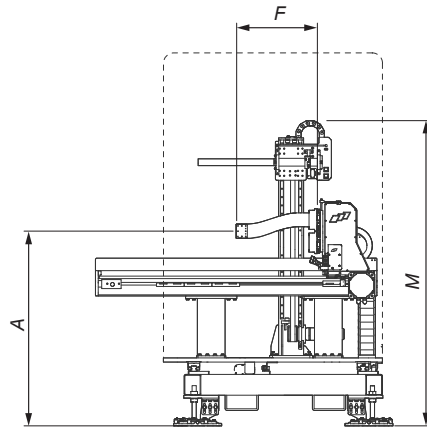
Electrical power supply: 400-480 VAC • 50-60Hz • 3P+T

Installed electrical power [kVA]: 19,8

Pneumatic power supply [bar]: 6

Approximate weight [kg]: 2500

* linked to the additional extraction arm (optional) - see equipment list



| Model | A | B | C | D | E | F | G | H | I | L | M | N |
|-------------|------|------|------|------|------|-----|------|-----|-----|-----|------|------|
| MODULA Mini | 1404 | 2150 | 2070 | 1580 | 2145 | 585 | 1600 | N/A | N/A | 130 | 2201 | 2690 |

The drawings refer to a robot MODULA Mini

Machine data may be subject to change without prior notice from the manufacturer and this in order to improve its performance.

EOA interface and axes

| | |
|---|---|
| High-rigidity carbon fibre extraction arm | • |
| Additional high-rigidity carbon fibre extraction arm | ○ |
| Mechanical fixing interface for gripping system on extraction arm | • |
| Stamped products unloading axis (linear shifting with servo motor + pneumatic rotation) | • |
| Mechanical fixing interface for gripping system on stamped products unloading axis | • |
| Offset axis - horizontal shifting of base with electric motor | – |

Pneumatics**Central carriage unit**

| | |
|---|---|
| First and second vacuum line with release blows | • |
| First pressure circuit for mechanical gripper | • |
| Additional vacuum circuits with release blows (n.2 max) (2) | ○ |
| Additional pressure circuits for mechanical gripper (n.3 max) (2) | ○ |

Unloading axis unit

| | |
|---|---|
| First pressure circuit for mechanical gripper | • |
| Additional vacuum circuits with release blows | • |
| Additional vacuum circuits with release blows (n.1 max) | ○ |

(2) Up to a maximum of 6 pneumatic lines total

Electronics and Software

| | |
|---|---|
| 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) | • |
| Proximity sensor (intermediate mechanical cam) for transversal axis | • |
| 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 | ○ |
| PLC software integrated into the CNC | • |
| Off-line programming software | ○ |
| Safety guards with electrical system and Euromap 73 interface: | • |

Accessories**IMM connecting cable:**

For Euromap 67 interface, available lengths [m]: 10 (●) 12 (○) 14 (○)

For JIS interface, available lengths [m]: 10 (○)

Pushbutton remote control panel for basic functions (○)**EVO console cable winder (○)**

● Standard ○ Optional – Not available