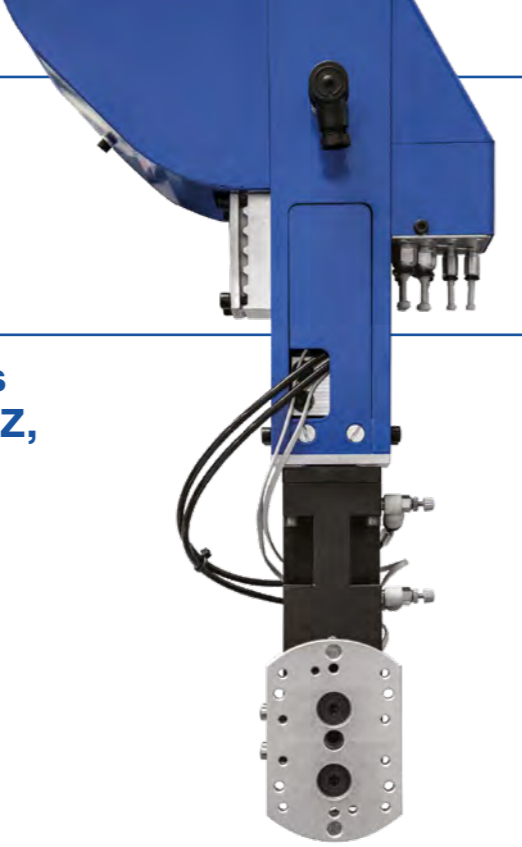


QX line

The Boma QX manipulator series features servo-controlled Cartesian axes X, Y and Z, with one or more rotating units driven pneumatically or electrically.

All models are available in both the standard PLC version and the **Boma Pro CNC (S)** version, which not only enables axis interpolation, but also improves axis response and reduces dry cycle time by approximately 1.5 seconds.



Pneumatic rotation
0°-90°.



0°-90° rotation
Compact and powerful, equipped with an axial electric rotation system (opt.) with a range from 0° to 360°.



Electric rotation
0°-190° programmable (opt.)



Lightweight touch screen handheld
7 inches.

Free step-by-step sequence, with the possibility of inserting macros to simplify programming. Possibility to freely manage 8 INPUTS and 10 OUTPUTS.

Program storage available in the following versions:
- PLC: 270 programs on SD card;
- CNC: 400 programs on HD exportable to USB.

QX line
industrial manipulators

Industrial automation for plastics materials

EN - 01.2026

QX line

industrial

manipulators



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QXZ

Cartesian robot recommended for small-tonnage injection molding machines.



| | | | |
|------------------------------|------|---------------|---------------|
| IMM | ton. | 50 - 120 | |
| Horizontal axis stroke (X)* | mm | 1.400 - 1.600 | 1.800 - 2.000 |
| Transversal axis stroke (Z)* | mm | 400 | |
| Vertical axis stroke (Y)* | mm | 1.000 | |
| Rotation (R1) | deg. | 0° - 90° | |
| Rotation (R2) <i>opt.</i> | deg. | 0° - 90° | 0° - 180° |
| Maximum payload | kg | 3 | |
| Positioning repeatability | mm | ± 0,1 | |
| Dry cycle | sec. | 7" | |

* Configurable.

QX1

Cartesian robot recommended for small and medium-tonnage injection molding machines.



| | | | |
|-----------------------------------|------|-----------|-----------|
| IMM | ton. | 80 - 280 | |
| Horizontal axis stroke (X)* | mm | 1.600 | 2.000 |
| Transversal axis stroke (Z)* | mm | 500 | 700 |
| Vertical axis stroke (Y)* | mm | 1.000 | 1.200 |
| Rotation (R1) | deg. | 0° - 90° | |
| Rotation (R2) Axial * <i>opt.</i> | deg. | 0° - 360° | |
| Rotation (R2) * <i>opt.</i> | deg. | 0° - 90° | 0° - 180° |
| Maximum payload | kg | 4 | |
| Positioning repeatability | mm | ± 0,1 | |
| Dry cycle** | sec. | 5,5" | |

* Configurable.

** Available in S version: upgraded motors and a 3.7" dry cycle time.

QX1T

Cartesian robot equipped with a telescopic vertical axis, ideal for installations with limited ceiling height.



| | | | |
|-----------------------------------|------|--------------------|-----------|
| IMM | ton. | 80 - 280 | |
| Horizontal axis stroke (X)* | mm | 1.600 | 2.000 |
| Transversal axis stroke (Z)* | mm | 500 | 700 |
| Vertical axis stroke (Y)* | mm | 1.200 (telescopic) | |
| Rotation (R1) | deg. | 0° - 90° | |
| Rotation (R2) Axial * <i>opt.</i> | deg. | 0° - 360° | |
| Rotation (R2) * <i>opt.</i> | deg. | 0° - 90° | 0° - 180° |
| Maximum payload | kg | 4 | |
| Positioning repeatability | mm | ± 0,1 | |
| Dry cycle** | sec. | 5,5" | |

* Configurable.

** Available in S version: upgraded motors and a 3.7" dry cycle time.

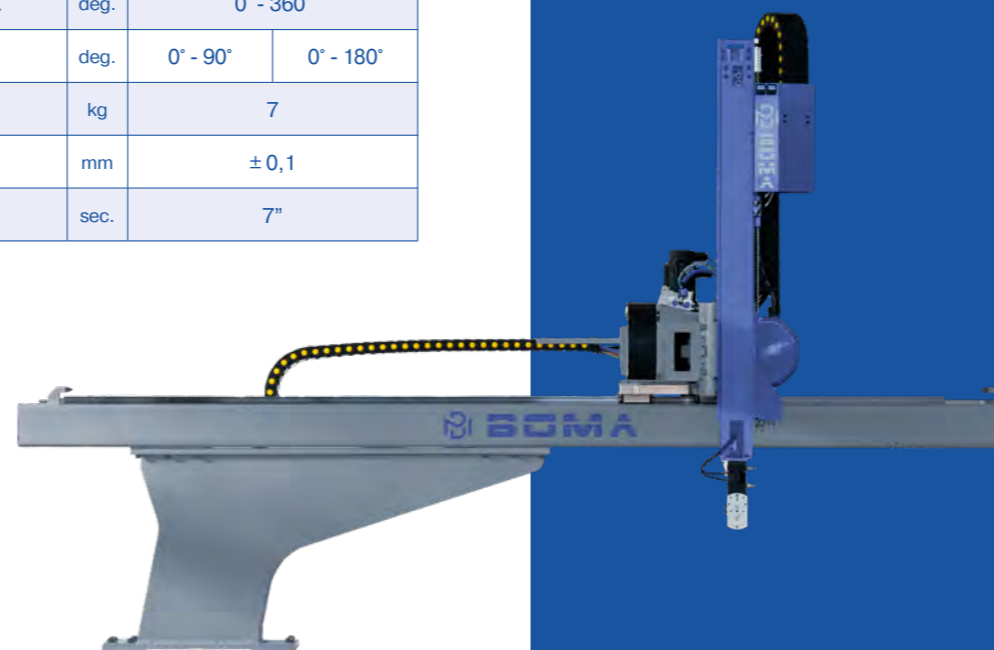
| | | | |
|-----------------------------------|------|--------------------------|-----------|
| IMM | ton. | 280 - 600 | |
| Horizontal axis stroke (X)* | mm | 2.000 | 2.500 |
| Transversal axis stroke (Z)* | mm | 900 | |
| Vertical axis stroke (Y)* | mm | 1.500 | |
| Rotation (R1) | deg. | 0° - 90° (electric opt.) | |
| Rotation (R2) Axial * <i>opt.</i> | deg. | 0° - 360° | |
| Rotation (R2) * <i>opt.</i> | deg. | 0° - 90° | 0° - 180° |
| Maximum payload | kg | 7 | |
| Positioning repeatability | mm | ± 0,1 | |
| Dry cycle | sec. | 7" | |

* Configurable.



| | | | |
|-----------------------------------|------|-----------|-----------|
| IMM | ton. | 280 - 600 | |
| Horizontal axis stroke (X)* | mm | 2.000 | 2.500 |
| Transversal axis stroke (Z)* | mm | 500 | 1.000 |
| Vertical axis stroke (Y)* | mm | 1.500 | 1.800 |
| Rotation (R1) | deg. | 0° - 90° | |
| Rotation (R2) Axial * <i>opt.</i> | deg. | 0° - 360° | |
| Rotation (R2) * <i>opt.</i> | deg. | 0° - 90° | 0° - 180° |
| Maximum payload | kg | 7 | |
| Positioning repeatability | mm | ± 0,1 | |
| Dry cycle | sec. | 7" | |

* Configurable.



QX2

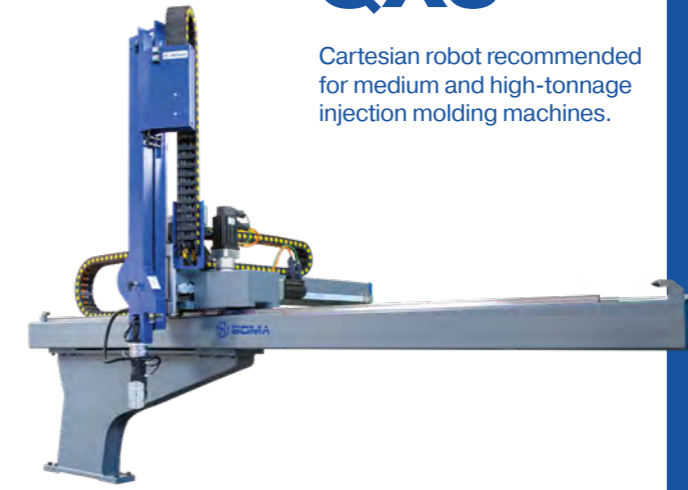
Cartesian robot recommended for medium-tonnage injection molding machines.

QX2-NF

Cartesian robot recommended for medium-tonnage injection molding machines; thanks to the fixed Z axis, it ensures minimum overall dimensions on the hopper side.

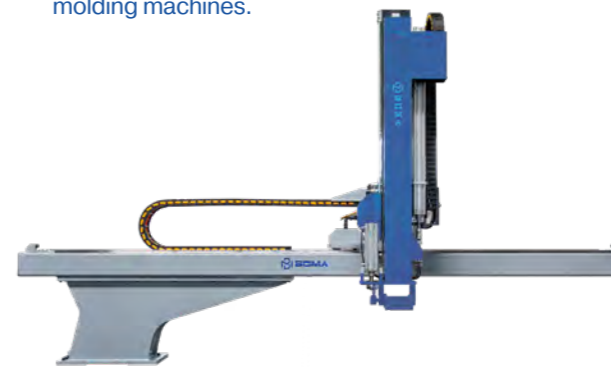
QX3

Cartesian robot recommended for medium and high-tonnage injection molding machines.



QX4

Cartesian robot recommended for high-tonnage injection molding machines.



QX6

Cartesian robot recommended for medium and high-tonnage injection molding machines, equipped with dual vertical and transverse axes.



QX line industrial manipulators

| | | | |
|-----------------------------------|------|--------------------------|-----------|
| IMM | ton. | 600 - 900 | |
| Horizontal axis stroke (X)* | mm | 2.500 | 3.000 |
| Transversal axis stroke (Z)* | mm | 1.100 | |
| Vertical axis stroke (Y)* | mm | 1.800 | 2.000 |
| Rotation (R1) | deg. | 0° - 90° (electric opt.) | |
| Rotation (R2) Axial * <i>opt.</i> | deg. | 0° - 360° | |
| Rotation (R2) * <i>opt.</i> | deg. | 0° - 90° | 0° - 180° |
| Maximum payload | kg | 12 | |
| Positioning repeatability | mm | ± 0,1 | |
| Dry cycle | sec. | 9,2" | |

* Configurable.

| | | | |
|-----------------------------------|------|--------------------------|-----------|
| IMM | ton. | 1.000 - 1.700 | |
| Horizontal axis stroke (X)* | mm | 3.000 | 4.000 |
| Transversal axis stroke (Z)* | mm | 1.500 | 2.000 |
| Vertical axis stroke (Y)* | mm | 2.000 | 2.500 |
| Rotation (R1) | deg. | 0° - 90° (electric opt.) | |
| Rotation (R2) Axial * <i>opt.</i> | deg. | 0° - 360° | |
| Rotation (R2) * <i>opt.</i> | deg. | 0° - 90° | 0° - 180° |
| Maximum payload | kg | 30 | |
| Positioning repeatability | mm | ± 0,1 | |
| Dry cycle | sec. | 15" | |

* Configurable.

| | | | |
|---|------|-----------|-----------|
| IMM | ton. | 500 - 900 | |
| Horizontal axis stroke (X)* | mm | 3.000 | |
| Transversal axis strokes (Z and Z1)* | mm | 1.000 | |
| Vertical axis strokes (Y and Y1)* | mm | 1.800 | |
| Rotation R1 (of Y and Y1) | deg. | 0° - 90° | |
| Rotation R2 (of Y and Y1) Axial * <i>opt.</i> | deg. | 0° - 360° | |
| Rotation R2 (of Y and Y1) <i>opt.</i> | deg. | 0° - 90° | 0° - 180° |
| Maximum payload | kg | 12 | |
| Positioning repeatability | mm | ± 0,1 | |
| Dry cycle | sec. | 9,5" | |

* Configurable.