

BRTIRUS1820A – 6-axis robot for large injection moulding machines



Borunte BRTIRUS1820A – 6-axis robot for 500–1 300 T injection moulding machines

Product description

The BRTIRUS1820A is a six-degree-of-freedom robot developed for complex industrial applications, with an arm length of 1 850 mm and a payload of 20 kg. Its lightweight arm structure and compact mechanical design enable high-speed, flexible movement. It is the primary solution designed for 500–1 300 T injection moulding machines.

The robot is particularly suitable for loading and unloading, injection moulding, die casting, forging and assembly. Borunte has deep experience in integrating with injection moulding machines – the control system was developed on the basis of nearly 20 years of injection moulding expertise.

Typical applications

- Tending large injection moulding machines (500–1 300 T) – automotive parts, large housings
- Loading and unloading – heavier parts (10–20 kg)
- Die casting, forging and assembly with large workpieces
- Polishing, inspection and gluing where a long reach is required

Technical specifications

Parameter	Value
Total arm length	1 850 mm
J1 (base to axis 2)	494,6 mm
J2 (axis 2–3)	730 mm
J3 (axis 3–5)	825,5 mm
Maximum payload	20 kg
Repeat positioning accuracy	±0,05 mm
J1 rotation range	±155°
J2 rotation range	-140° / +65°
J3 rotation range	-75° / +110°
J4 / J5 / J6 range	±180° / ±115° / ±360°
J1 max. speed	110,2°/s
J6 max. speed	375°/s
Power	5,87 kVA
Protection rating	IP54
Weight	~230 kg
Recommended IMM range	500–1 300 T

Table 5 – BRTIRUS1820A technical specifications

