

BRTIRUS3511A – Industrial-scale palletising and material handling robot



Borunte BRTIRUS3511A – 6-axis robot, 3 500 mm arm length, 100 kg payload

Product description

The BRTIRUS3511A is a 6-axis robot designed for monotonous, repetitive, long-duration industrial tasks and for work in hazardous or harsh environments. It has an arm length of 3 500 mm and a maximum payload of 100 kg, making it one of the longest-reach Borunte robots in the portfolio.

With its six degrees of freedom, it efficiently handles loading and unloading tasks, material handling operations and palletising processes. Its repeat positioning accuracy is ± 0.2 mm, and it has an IP40 protection rating.

Typical applications

- Palletising and loading – automated handling of heavy industrial products (50–100 kg)
- Material handling over a large working area, for warehousing purposes
- Loading and unloading – heavy injection-moulded parts from large machines
- Handling hazardous materials where human intervention should be avoided

Technical specifications

Parameter	Value
Total arm length	3 500 mm
J1 (axis 2–3)	1 200 mm
J2 rotation range	±160°
J3 rotation range	-75° / +30°
J4 / J5 / J6 range	-80°/+85° / ±180° / ±360°
Maximum payload	100 kg
Repeat positioning accuracy	±0,2 mm
J1 max. speed	85°/s
J6 max. speed	124°/s
Power	9,71 kVA
Protection rating	IP40
Weight	~1 187,5 kg

Table 7 – BRTIRUS3511A technical specifications

