

Pick n Place ROBOT (BRABO)

Technical Specifications:

Make: BRABO Robotic System, TATA Aeronautics Ltd (TAL)



Mains power Supply:
200-230 v AC/ Single Phase,
50-60 Hz
Max Power Consumption:
5 kW
External Axis Configuration:
1 Axis Addition

Manufacturer: TAL Manufacturing Solutions Limited

Basic Use: Pick & Place

Specifications

Payload	10 kg
Max. Reach	750 mm
Controller Axes	5
Robot Arm-Wt.	95 kg
Structure	Articulated Arm
Axis Ranges	Axis 1: ± 180°
	Axis 2: ± 130°
	Axis 3: ± 150°
	Axis 4: ± 180°
	Axis 5: ± 360°
Max. Speed (A1, A2, A3, A4 & A5)	A1: 110°/s
Position Repeatability	± 0.2 mm
Acoustic Noise	< 70 dB
Sound Sensor	Yes
Touch Sensor	Yes
Light Sensor	Yes
Operating Temp	0 – 50 °C
Mounting	Floor

Controller Features

Controller Axis	5, 6
Digital input/Output (Standard)	16 Programmable, 1 Input 4 Output
Expansion IO's	512
Memory Slot card	Micro SD upto 16 GB
Analog Input Cards (0-10 volts)	2 X 12 bits
Analog Output (+/- 10 volts)	2 X 16 bits
Communication Options	Ethernet, EthernetCAT Modbus TCPIP
Operating Temperature	0-45°C
Built in PLC	Ladder, Functional Block, Structured Text SFC

Extended Usage:

MIG welding, sealant application, vision-based inspection, assembly, testing & validation and machine tending.



Chamfering



Testing & Validation



Machine Tending



Vision Based Inspection



Assembly



Welding



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Course registration link:

<https://forms.gle/4k7bFiGFeH9vg8WD8>

