



ABB IRB 120

Flexible 6-axis industrial robot, with a payload of 3 kg, designed specifically for manufacturing industries that use robot-based automation. 3 robots available, with compact IRC5, RobotWare and RobotStudio available. 3D camera available for bin picking and part location. Flexible and with high speed. The presence of a cage or additional safety systems is required. High repeatability and speed, medium-low load capacity. 16/16 I/Os with 24V, 1 A power supply, and 5 MPa pneumatic air supply.

Key Features

- DeviceNet, PROFIBUS adapter, Ethernet/IP, Allen-Bradley Remote I/O, PROFINET
- Programmable via RAPID on HMI pendant or Robotstudio
- Maximum load capacity: 3 kg
- Position repeatability: ± 0.01 mm; accuracy: ± 0.02 mm

Possible Applications

- Robot Cell Design
- Robot+Vision System Interfacing
- Complex Sensor Driven Robot Control
- Light Weight Pick and Place
- Robot-robot collaboration studies



Access information

Corresponding infrastructure	University of the West of England Bristol Robotics Laboratory
Location	Coldharbour Ln, Stoke Gifford, Bristol BS16 1QY, UK
Unit of access	Working day

Technical specifications

Weight	N/A
Power supply	N/A
Interfaces	Various
DoA	6
Load	3 kg

Additional information

Additional Information available [here](#) and [here](#).