



ABB IRB 14000 YuMi

Collaborative, dual-arm robot. The robot includes integrated collision detection, lead-through mode, force-sensing parallel grippers, integrated camera-based part location and synchronized arm motion control. It presents over actuated arms (additional external link) for easy repositioning, alternative configurations and object avoidance. Flexible and safe to work with, without the need of cage or additional safety systems. High repeatability and speed, limited load capacity. Tool flange presents 24V, 1 A power supply, with Ethernet communication protocol. Alternative solutions (serial or custom) are available for different end-effectors.



Key Features

- Maximum load per arm: capacity with grippers: 239 g
- Maximum load per arm: capacity without grippers: 500 g
- Position repeatability: ± 0.02 mm
- Programmable via RAPID on HMI pendant or Robotstudio
- DeviceNet Master/Slave, PROFIBUS adapter, WAN, LAN, PROFINET and air supply (0.6 MPa)

Possible Applications

- Handling of materials, lightweight tools and small parts
- Measuring, testing and inspection
- Assembling and processing of small parts
- Human interaction, multi-tasking and collaboration

Access information

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



Technical specifications

DoA	7
Interface	Various
Power supply	N/A
Weight	N/A
Load	238 g
Maximum total payload	500 g

Additional information

Additional information available [here](#)