

Introducing the iAM-R

The iAM-R is unlike any robot available to industrial manufacturers today. More than just an AGV, this is automated and intelligent; fully mobile and with no need for tracks. But even better, each iAM-R comes with a modular interface which is individually built to serve your workplace. It means the interface is programmed with you in mind. It means the robot becomes one of your team.



MiR appoints iconsys as their first CSI partner.



The Arm

The top mounted 6-axis robot is capable of carrying 3kg, 5kg or 10kg*. Designed to mimic the range of motion of a human, it comes in three sizes and a choice of robot grippers, tool changer options and integrated vision.

The Interface

This modular interface is the main intelligence behind the iAM-R. Never 'off the shelf', this is designed to your factory workspace. 100% customised and fully programmable, automation has never been this clever.

The Base

This MiR200 mobile robot base is agile, responsive and smart. The MiR200 doesn't run on tracks, it navigates your workplace layout, with sensors that scan for obstacles and the brain power to find a way around.

Why Use the iAM-R?

Easy Programming

The iAM-R provides a new dawn for automated robotics. With easy programming we combine innovative human thinking with the machine's diligence and industry. The combination is hard to beat.

Fast Setup

The iAM-R interface offers a swift and painless setup process. Our technical team are on hand to programme your bespoke unit and provide training tailored to your solution.

Flexible Automation

Bespoke is one thing, full alignment with your factory is another. The iAM-R combines flexible and SMART technology – whether that's performing isolated tasks, or working as a group in various applications.

Collaborative & Safe

The iAM-R's top mounted collaborative robot has 17 advanced adjustable safety functions certified to PLd cat.3. The MiR base complies with EN1525 safety regulations, SICK safety lasers and PLd cat.3.

Readily Adaptable

Modify the iAM-R with a range of end-of-arm tools and accessories. Choose from attachments grippers, tool change options and hand-eye additions.

Technical Specifications

Robot Arm Capabilities	3kg, 5kg, 10kg*
Range of Motion	+/- 360-degree base rotation and a reach of 19" and +/- 360-degree base rotation and a reach of 33"
Degrees of Freedom	6 rotating joints each with a +/- 360-degree range of freedom
Onboard I/O	16 Digital out, 16 Digital input, 2 Analog out, 2 Analog in, 2 500 Hz control, 4 separated high speed quadrature digital inputs. ModbusTCP, ProfiNet, EthernetIP and USB ports: 1 USB 2.0, 1 USB 3.0
Wireless Communication	WiFi Dual-band wireless AC/G/N/B and Bluetooth 4.0 LE, range: 10-20 m
Collaborative Operation	17 advanced adjustable safety functions incl. elbow monitoring certified to Cat.3, PL d
Temperature Range	5-50 °C / 41-122 °F
End of Arm Connectivity	I/O power supply in tool 12V/24V 600mA continuous, 2A peak
Battery	Up to 8 hours between charges
Options	Bespoke end of arm tooling, vision systems, additional battery

*Currently in development

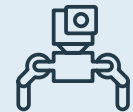
Applications include:



MACHINE TENDING



PICKING AND PACKING



ASSEMBLY AND TEST