



AUTOMATION FOR EVERYONE

RARUK Automation specialises in the supply of innovative automation products designed to enhance productivity across all industries.

From collaborative and mobile AMRs through to traditional industrial robots and automated storage solutions, the RARUK Automation product portfolio provides OEMs, systems integrators and manufacturers with a unique range of standard and customised automation solutions.

LEVERAGE OUR EXPERTISE TO YOUR BENEFIT

Our team of unrivalled experts are on hand to offer technical and commercial guidance and expertise to customers across the UK. We can also offer comprehensive technical support and feasibility trials to support your organisation with the setting up and management of your automated solution.

UNIVERSAL ROBOTS TRAINING

RARUK Automation is proud to be a certified Universal Training Academy, offering both Core and Advanced training.

Throughout the year, we run regular in-house training courses at our HQ in Bedfordshire (UK), conducted by certified trainers in our state-of-the-art training facilities. Covering the basics to the more advanced, our training will help you get to grips with – and master – your UR robots.

FEASIBILITY TRIALS

We offer a feasibility study service, where our technical team trial potential automation solutions in our dedicated lab, helping businesses establish if it is possible to automate specific production tasks.



AUTONOMOUS MOBILE ROBOTS (AMRS)

The new generation of advanced mobile robots is ideal for the automation of internal transport and logistics. MiR Robots are designed to optimise workflows, free-up staff resources for more valuable tasks and allow manufacturers to increase productivity. Thanks to built-in sensors, cameras and sophisticated software to guide the robot, there is no need to alter your facility, enabling simple integration and a fast return on investment.



MOBILE COBOTS

The ER-FLEX and ER-MAX from MiR are automated transportation robots with the added flexibility of a robot arm. Ideal for addressing labour shortages and automating repetitive tasks. These mobile cobots can even run lights-out. The range can be configured to meet your requirements with a choice of module heights, cobot arms and end-of-arm tools.



TOP MODULES

From rollers to cart solutions and racks to lifters, there are several top modules compatible with MiR robots available to help you transform your production line and its productivity.

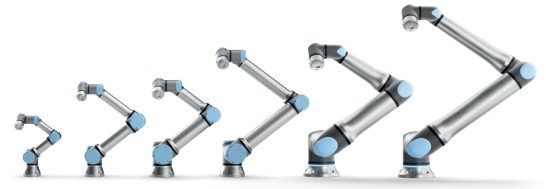


PALLET JACK

The MiR1200 Pallet Jack revolutionises internal pallet transportation, automating detection, transportation, and delivery of EU pallets up to 1200 kg at 1.5 m/s. Its groundbreaking AI-based perception system sets it apart, reducing pick-and-place cycle times significantly and elevating throughput.

COLLABORATIVE ROBOTS

As the leading supplier of Universal Robots in the UK, we offer a range of flexible, 6 axis robotic arms that, due to integral safety systems, can be operated safely without costly external guarding. Designed to be lightweight and portable, with intuitive programming, the cobots can be easily integrated into many existing production environments. Our cobots have a payload range of 3kg up to 35kg* and offer fast ROI, routinely delivering payback within a year.



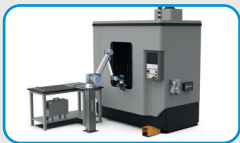
**The extra 5 kg/11 lbs payload on the UR20 and UR30 models is possible with boundary conditions according to the manual.*

AUTOMATION SOLUTIONS



PALLETISING

Palletising is a simple, repetitive task. It is also one of the most common robot applications in many industries. Our range of solutions are flexible, quick to install and easy to set up as the hardware and software are already connected. It's also easy to adapt to other manufacturing lines.



MACHINE TOOL TENDING

We offer a machine tending solution that makes cobot automation more accessible than ever. Designed to work with collaborative robots from Universal Robots, the machine tending solution can be easily configured to work with a variety of CNC machines, robotic accessories, sensors and setups.



SCREWDRIVING

Our screwdriving solution simplifies programming by automating the force-capabilities and communication between the screwdriver, screw feeder, robot and vacuum technology. This robotic solution has been designed to free employees for higher value tasks and reduce the risk of repetitive strain injury.

PLUG & PLAY END-EFFECTORS

GRIPPERS

Our off-the-shelf tailored cobot plug and play grippers, available in 2-finger and electrical vacuum configurations, are known for their ease of integration and user-friendliness. All grippers are supplied complete with auto-install pre-packaged subroutines for easy programming.



ROBOT VISION AND BIN PICKING

We can provide 2D, 3D and AI vision systems to suit your application perfectly. Robot vision makes automating nearly any picking task simple, regardless of the shape, material, colour or size of your components. Automate your pick and place manufacturing processes using robot vision to guide your cobot to pick your parts from a bin.

ROBOT SAFETY

We offer an end-of-arm safety sensor which provides contactless collision avoidance. Designed to facilitate interaction with the robot, the safeguard creates a protective field around the robot tool. This enables higher robot speeds in collaborative applications and optimises the use of space.



TOOL CHANGERS

Tool changers fix to the wrist of a robot, enabling it to quickly and easily switch from one tool to another. This allows you to have several tools operating in the same area, to complete a particular set of tasks, resulting in reduced set up time and providing you with greater versatility.

SANDING AND POLISHING

Automate surface finishing tasks to increase both quality and productivity. The complete plug and play cobot surface finishing solution is ideal for use on a range of different materials including wood, plastic, metal, fibreglass, solid surfaces and carbon fibre to ensure consistent surface finishes for each product.



FLEXIBLE FEEDING SYSTEMS

Ideal for frequent production changeovers or volume changes, our flexible feeding systems allows entire families of parts to be fed into production regardless of size, weight, shape and materials etc. Fully compatible to work with SCARA and 6-axis robots and has a UR+ certified URCap. ISO 5 compliant cleanroom versions are available.



AUTOMATED PICKING & STORAGE

Save floor space with our intelligent automated storage and retrieval system which provides efficient day-to-day management and storage across your entire order picking process. Ideal for companies picking multiple small parts in high volumes, the patented Box Mover Technology operates both vertically and horizontally, setting new standards for picking speed, picking accuracy and flexible integration.

DISENTANGLING TECHNOLOGY

Based on market leading technology, our disentangling machines and equipment are designed to sort and feed hard to disentangle bulk goods. Complex parts can be disentangled and passed on for further processing, regardless of their size, material or geometry.

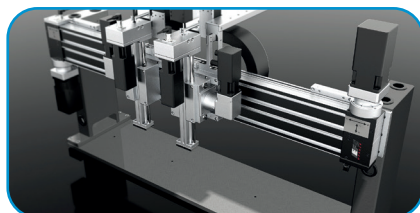


TRAY PALLETISERS

Our palletising tray handlers provide uninterrupted delivery of components to and from production lines. The trays are loaded into the tray handler by either integrated conveyors or, if a minimum footprint is required, the trolley loading variant offers space saving within the production line. In operation, the tray stacks are positioned to, typically, an integrated cartesian axis system to feed the components to the production line. Options also allow for integration with SCARA and 6-axis robots. Once a tray is emptied, a new tray of components is moved into position and the empty tray placed within the outfeed stack.

SERVO PRESS

Servo presses are used for joining and forming applications. With force capacity up to 36kN the range is able to combine precision positioning with high accuracy force measurement. This is achieved by using a torsion-resistance steel C-frame to give maximum rigidity. The built-in control system enables easy programming and capacity for data logging of results for quality control purposes. It is suitable for manual operation or integrated automated loading.



CARTESIAN AXIS SYSTEMS

We offer an extensive range of servo driven linear axis units. There are options with toothed belt drive, ball screw and direct drive to suit speed, payload and precision requirements. Stroke lengths of up to 6 metres are possible and multiple axis positioning system combinations of up to sixteen axes can be controlled using our PA controls system. Fully synchronised circular interpolation of up to four axes is possible with IPO control system.



The full product brochure library can be found here.

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