IR-O

IRAN ROBOTIC AND AUTOMATION

OUR SERVICES

About Us

IR-O Is One Of The Largest Used Industrial Robot Dealers In The World.

IR-O is a leading service robot company that began as a robot software development company. It is developing robotic services and platforms based on service areas: All industries including automotive, oil, gas and petrochemical, painting, welding, cutting, packaging, medicine, delivery, security & patrol, disinfection, and hospitality.

We started with the goal of making robots affordable to customers all over the globe. With well over 1,300 robots in stock, tons of spare parts and 20+ year's experience, we are a one stop shop when it comes to Industrial Robots and Spare Parts.

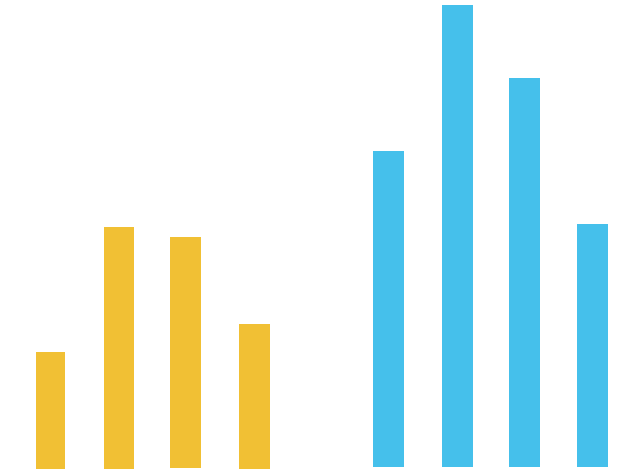
Focusing on the supply of robots and than their installation, we sell robots from all the main manufacturers including ABB, Fanuc, Kuka and Kawasaki. We buy and sell robots in large numbers keeping prices low. If you need a robot, robotic system or spare parts then we can help find it or if you need advice on choosing a system, installation, training or programming then we can provide a solution that saves you money.

We also have extensive stocks of industrial robot spare parts, mostly ABB and Fanuc but also Motoman, Nachi, Kuka, Kawasaki and others. We can also source parts from a range of contacts throughout the robot world. This means we have or can find spares that are hard to find or have stopped being made or supported by the original manufacturer. Our experienced engineers can also suggest alternatives.

We also now supply robots and automation solutions for palletising, welding, handling, 3D printing, painting, assembly, CAD/CAM, milling and trimming, polishing and every other robotic application. We can provide a single spare part to a completely refurbished robot to a fully functioning robotic cell. All of our robots are fully tested, serviced, repainted and come with our parts warranty. We are here to help. The industrial robot world can be very daunting at first and indeed expensive and so we try to make it easier for everyone to get involved.

We provides consulting services in automation, production management, business solutions and strategies and learning programs to other companies.

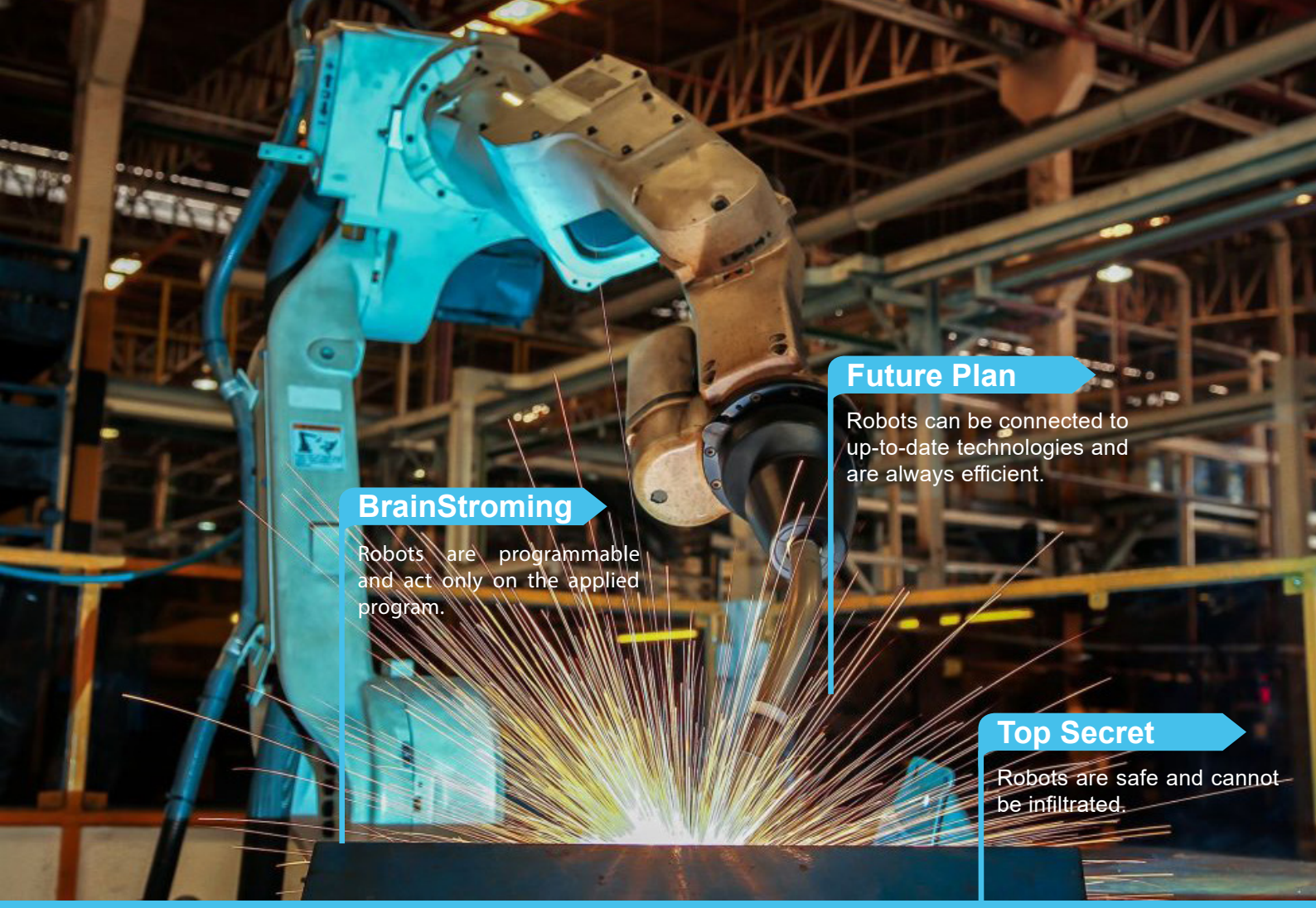
The following courses are considered in IR-O training programs: Industrial control, real-time control, controlling softwares, preventive maintenance, balancing, monitoring and modal analysis.



Efficiency of a factory with manpower without the intervention of robots and automation.

Efficiency of a factory with manpower and the use of robots and the use of automation.

This comparison is calculated based on the quantities of accuracy, speed, quality and output cost.



The rate of robot use in various industries in the world:

Global Investment

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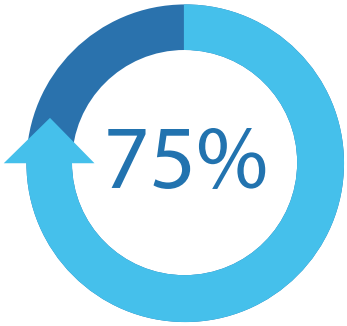
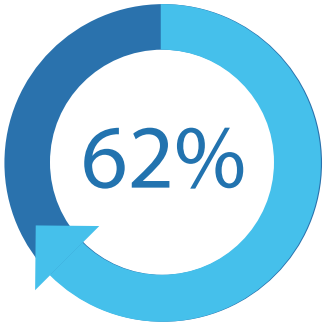


Marketing Domestic Value

Global sales value of service robots for personal and domestic use is forecast to grow from 4.3 billion U.S. dollars in 2019 to 10 billion U.S. dollars in 2023. The entertainment robots segment is also projected to grow, although not as strongly as domestic task robots, over the next few years, reaching 1.9 billion U.S. dollars in sales value in 2023.

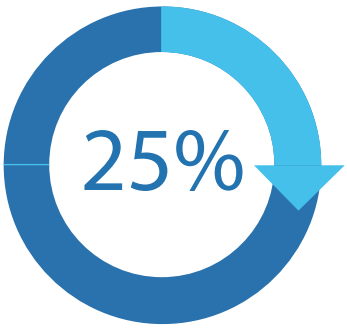


Around The World Asset

IR-O is an index, advisory, and research company wholly focused on helping investors capture the unique opportunities of fast-growing robotics, artificial intelligence, and healthcare technology companies around the IRAN.

Global Investment Grown Up

The number of robotics and automation companies has increased dramatically in recent decades as corporations seek to produce goods and services more efficiently, often replacing more expensive human employees in the process. More recently, the urgency to automate in order to cut labor costs has accelerated due to a currently tight labor market that is giving workers the upper hand in demanding higher wages.



Economic Risk Value

Automation enables firms to produce goods for lower costs. Automation leads to significant economies of scale – important in industries which require high capital investment. Automation enables firms to reduce number of workers, and this limits the power of trades unions and potentially disruptive strikes.

Scope of Work

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ROBOTICS

We have all industrial robots from reputable brands ready for sale and rent in the industries you need, and we will provide it to you in the shortest possible time. Industrial robots manipulate products quickly and delicately in applications such pick and place from conveyor line to packaging.

AUTOMATIONS

Supply of goods, commissioning, engineering and design of all industrial systems by qualified engineers working in various industries. They all have high expertise. Industrial automation is the use of control systems, such as computers or robots, and information technologies for handling different processes and machineries in an industry to replace a human being. It is the second step beyond mechanization in the scope of industrialization.

MAINTENANCE

Periodic service and maintenance of industrial equipment is a very important and sensitive process. Our team of engineers with 20 years of experience in this field are able to perform troubleshooting, updating, repair and maintenance services. Industrial maintenance, also called plant maintenance, is the process of implementing processes to reduce breakdowns, increase uptime, and promote overall reliability. In other words, maintenance is the general process of ensuring that assets are kept in good working condition.

Company Achievement Milestone Through 21st Century

Jantsa Steel

We have sold 12 KUKA robots to the Jantsa Steel Wheel factory, and these robots are used in the factory for part feeding in the press lines. It has been calculated that robots increase efficiency in this line by 33%.

OYAK Renault

We made a 6 robot spot welding project for the welding applications of small aluminum parts at the OYAK Renault factory. This project, equipped with Conveyor + Fence + Rail + Fixture and Raised Base, provided a very high efficiency to the efficiency of the overall system.

Ytong Perlite Brick

We sold 8 turnkey Palletizing Robots for palletizing task to Ytong Perlite Brick Factory and these robots are currently doing the job of stacking the Perlite bricks on the pallets without any error and loss.

Vitra

We have sold 3 KUKA robots to the Vitra Factory and these robots are used in the factory for laser cutting.

Another conclusion is that adopting robots has generally led to growth in productivity, but the effects have varied by industry and over time. Among all industries, a one percent increase in robot density correlated with an increase in productivity of 0.8 percent.

Thyssenkrupp Elevator

We sold 4 Kuka Robots to the Thyssenkrupp Elevator factory and these robots are used for part feeding in the CNC line where elevator brake mechanisms are produced.

Italian Bontena Furniture

We sold 7 robots to the Italian Bontena Furniture Factory, 4 of these robots are used in woodworking applications and turning-milling works, and 3 of them are used in polishing applications.

BASF Construction Chemicals

We sold 6 palletizing robots with ready pick-place equipment to BASF Construction Chemicals factory and these robots are currently 25 Kg. weight of construction chemicals are packed in paper bags, then they are taken over a fast conveyor line and placed on the pallet without any errors.

Franke Sink

We sold 4 robots to the Franke Sink Production facility and these robots do the job of removing the burrs on the edges of the sinks coming out of the mold without any errors.

Global Progress

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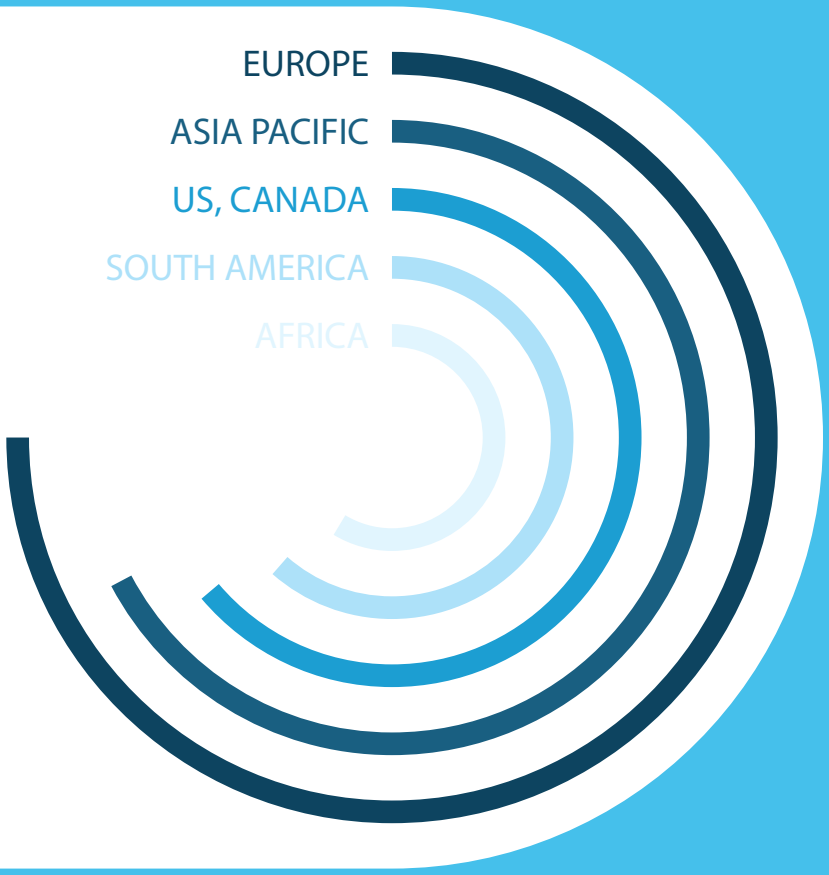
Global Investment

The Future of Robotics. Robotic engineers are designing the next generation of robots to look, feel and act more human, to make it easier for us to warm up to a cold machine. Realistic looking hair and skin with embedded sensors will allow robots to react naturally in their environment.

The robotics industry is expected to grow significantly over the coming years. Estimates suggest that the sector could be worth as much as $260 billion by 2030. Much of this growth will come from professional services robots that perform useful tasks for humans, such as cleaning, delivering, and transporting.

We've been warned for years that artificial intelligence is taking over the world. IR-O predicts that by the mid-2030s, up to 30% of jobs could be automated. machines could replace 40% of the world's workers within 15 to 25 years.



Why Us?

1. HIGH QUALITY
2. EXPERT TEAM
3. EXCELLENT SERVICE
4. DIVERSITY IN THE PORTFOLIO
5. FAST LOGISTICS
6. ANALYSIS OPERATION
7. AFFORDABLE PRICES

Because they can be programmed to perform dangerous, dirty and/or repetitive tasks with consistent precision and accuracy, industrial robots are increasingly used in a variety of industries and applications. They come in a wide range of models with the reach distance, payload capacity and the number of axes of travel (up to six) of their jointed arm being the most common distinguishing characteristics.

In both production and handling applications, a robot utilizes an end effector or end of arm tooling (EOAT) attachment to hold and manipulate either the tool performing the process, or the piece upon which a process is being performed.

The robot's actions are directed by a combination of programming software and controls. Their automated functionality allows them to operate around the clock and on weekends—as well as with hazardous materials and in challenging environments—freeing personnel to perform other tasks. Robotic technology also increases productivity and profitability while eliminating labor-intensive activities that might cause physical strain or potential injury to workers.

All Featuring

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Industrial robots provide a variety of benefits:

- Accuracy – Robotic palletizers are software-directed for proper load placement

- Flexibility – Robotic systems can be re-purposed for other uses; end effectors can be switched out to handle different load types

- Lower labor costs – Automated pallet building reduces worker strain and frees operators for other tasksv

- Quiet operation – Servo-based, robotic palletizers generate low noise levels

- Reduced product damage – Gentle handling prevents package and product damage

- Speed – The systems increase rate productivity up to 50%

Load building

Assembling a pallet load of products at the end of a production line.

Manufacturing

Performing processing and assembly functions to work-in-process.

Quality control

Testing and inspection procedures deploy robots for repetitive or dangerous work.

Transportation

Loading pallets prior to shipping.

Industrial robots are used in many industries, including:

Aerospace | Automotive | Beverage | Computers | Consumer goods | E-Commerce
Electronics | Food | Grocery | Hardware | Healthcare | Manufacturing | Medical products
Pharmaceutical | Quality control and inspection | Retail | Warehousing and distribution

TYPE ROBOT

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Industrial robots are used in a variety of applications. These include:

Handling | Palletizing | Cutting | Finishing | Sealing and gluing | Spraying | Welding

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