

# rotork<sup>®</sup>

Keeping the World Flowing  
for Future Generations



## Company Overview



Innovative flow control and asset management solutions



## Introduction



Rotork is a market-leading global provider of mission-critical flow control and instrumentation solutions for oil and gas, water and wastewater, power, chemical, process and industrial applications. We help customers around the world to increase operational efficiency, reduce environmental impacts, improve product quality and provide safer working environments.

Our comprehensive product portfolio and global service capability coupled with over 60 years of industry knowledge means customers can rely on us to understand the problems they face and to deliver reliable, economic solutions.

The innovative research and development activities across Rotork ensure cutting edge products are available for every application, as we solve customer challenges and develop new solutions to create successful and reliable operations.

Rotork has a number of policies in place to help us reduce our environmental impact with a particular focus on energy reduction and managing environmental emissions.

We are committed to the prevention of pollution and comply with legal and regulatory requirements. We reduce our environmental impact by targeting key areas such as energy consumption, water consumption and waste.



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**Knowledge**

Since 1957 Rotork has operated across global markets, delivering intelligent flow control solutions for a wide-ranging suite of industries and market applications.

**Quality**

Rotork products are designed and built with quality components and clear user interfaces for quick and safe operation in the field.

**Reliability**

Rotork’s rigorous product development and testing ensures long-lasting performance and continued reliability.

**Innovation**

Through a culture of continual improvement, we ensure our products remain at the cutting edge for every application, providing cost effective and environmentally friendly solutions.

**Support**

Our global network of local service centres and engineers is unrivalled in the flow control market.

**At Rotork, we create innovative and dependable market-leading products and solutions for the flow control market.**



*This Page: Gas is one of the most energy efficient methods of heating and cooking*

*Facing Page: Rotork actuators and flow control products are used extensively throughout refineries all over the world*

- › 60 years of detailed application knowledge in the oil and gas sector
- › Trusted partner to the world's top performing oil and gas companies
- › Rotork are present at upstream, midstream and downstream stages
- › Solutions provider from well to refinery, from tanker to customer



Rotork specialise in producing actuators and flow control equipment for every part of the oil and gas industry, including production, processing, distribution and storage. Our products control hundreds of thousands of valves in plants across the world.

We understand the challenges of the oil and gas industry. Our innovative products and solutions help meet economic and policy requirements for the safe production of clean energy. Our wide-ranging suite of products, honed and improved through years of research and development, mean we are perfectly situated to assist in all stages; upstream, midstream and downstream. We are present in activities ranging from onshore and offshore production facilities, to refining and processing, to transportation, storage and distribution.

Building on a wealth of experience, we have the knowledge to offer you the best flow control products possible. We design and produce the actuators, instrumentation and associated flow control equipment that are used in the most vital parts of the oil and gas industries. In all cases, our products provide a high degree of durability, control and safety.



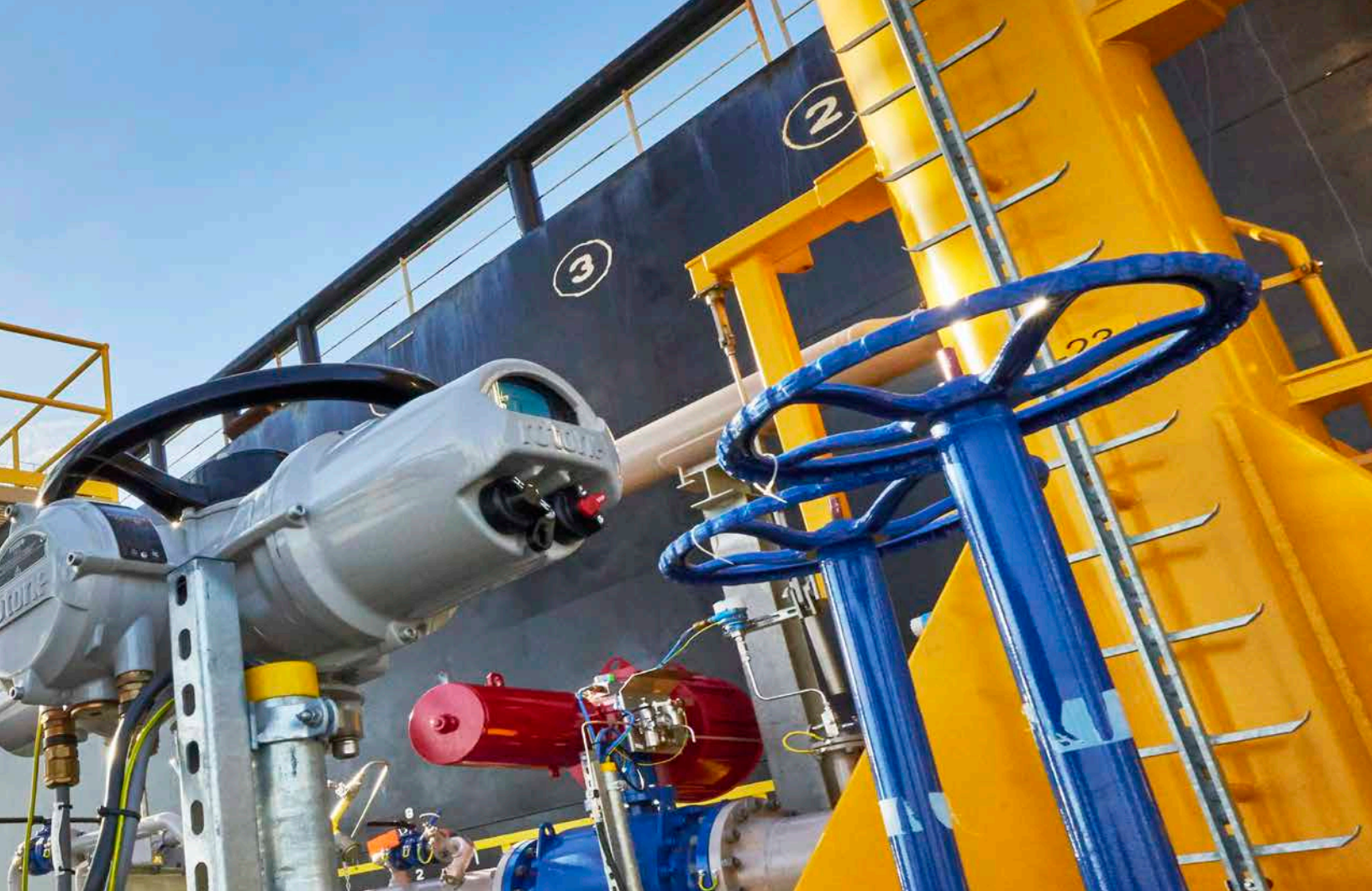
From involvement in offshore production platforms and wellheads in upstream, to pipelines and storage tank facilities in midstream, to refining and distillation in downstream, we are the flow control experts in the oil and gas industries that you can rely on.

#### **Upstream Exploration and Production**

Rotork's involvement in upstream exploration and production spans decades and we have the knowledge and experience to provide effective flow control products. We design and produce actuators and flow control equipment that are vital for efficient onshore and offshore operations.

Our products are accurate, robust and reliable. They operate valves and associated equipment which control and manage the flow of crude oil, gas, condensate and water. This stage of the oil and gas production process can take place in hazardous locations around the world, such as offshore platforms, subsea completions and floating production storage and offloading (FPSO), where safe operation is of paramount importance.

Rotork products provide robust, reliable and effective flow control, allowing for continual operation and dependable production. Our engineers and service operators work closely with end users to ensure ongoing success in the upstream areas in which we specialise.



### **Midstream Transportation and Storage**

Rotork flow control products support the transportation of the produced materials from initial exploration and production activities in the oil and gas industry to their next destination.

Storage and export operations rely heavily on flow control technology. A precise level of accurate control and monitoring is required, combined with a high degree of safety, continuous visibility of operations and emergency shutdown capability, which can be provided by Rotork products.

We have a large installed base of actuators in multiple storage and export facilities around the world that move, store and transport oil, gas and LNG (Liquefied Natural Gas). These midstream activities occur in often hazardous and challenging environments. Rotork products offer a high level of safety, reliability and security for the movement, storage and transportation of these materials.

Our products can be found in the transportation of material throughout pipelines, ships and rail systems and their use helps ensure a durable, reliable and safe delivery of products.

### **Downstream Refining, Processing and Distribution**

Rotork flow control products are a vital part of the operation of every refinery. Our range of actuators and associated flow control products enable accurate and reliable control of many critical operations.

Our products are evident in all downstream activities, from refining and processing, to the final distribution of products to the end user and consumer.

We supply actuators and flow control products and service support to refineries, plants, distributors and retailers around the world. In all cases, Rotork products provide a high degree of durability, control and safety.

*Above: Rotork IQ and GP actuators, gearboxes and instruments controlling flow of oil/gas at sea transfer and storage terminal, The Netherlands*



*This Page: Every time you turn on the tap, that water has been cleaned, processed, transferred and delivered via multiple flow control systems before it reaches your glass*

*Facing Page: Rotork products are used in power industry applications around the world, improving efficiencies and reducing or eliminating emissions*



- › Providing water and power industries with reliable flow control solutions
- › Working with advanced technology to provide energy efficient solutions
- › Helping customers meet and exceed environmental legislation
- › Maximising productivity and uptime for essential equipment



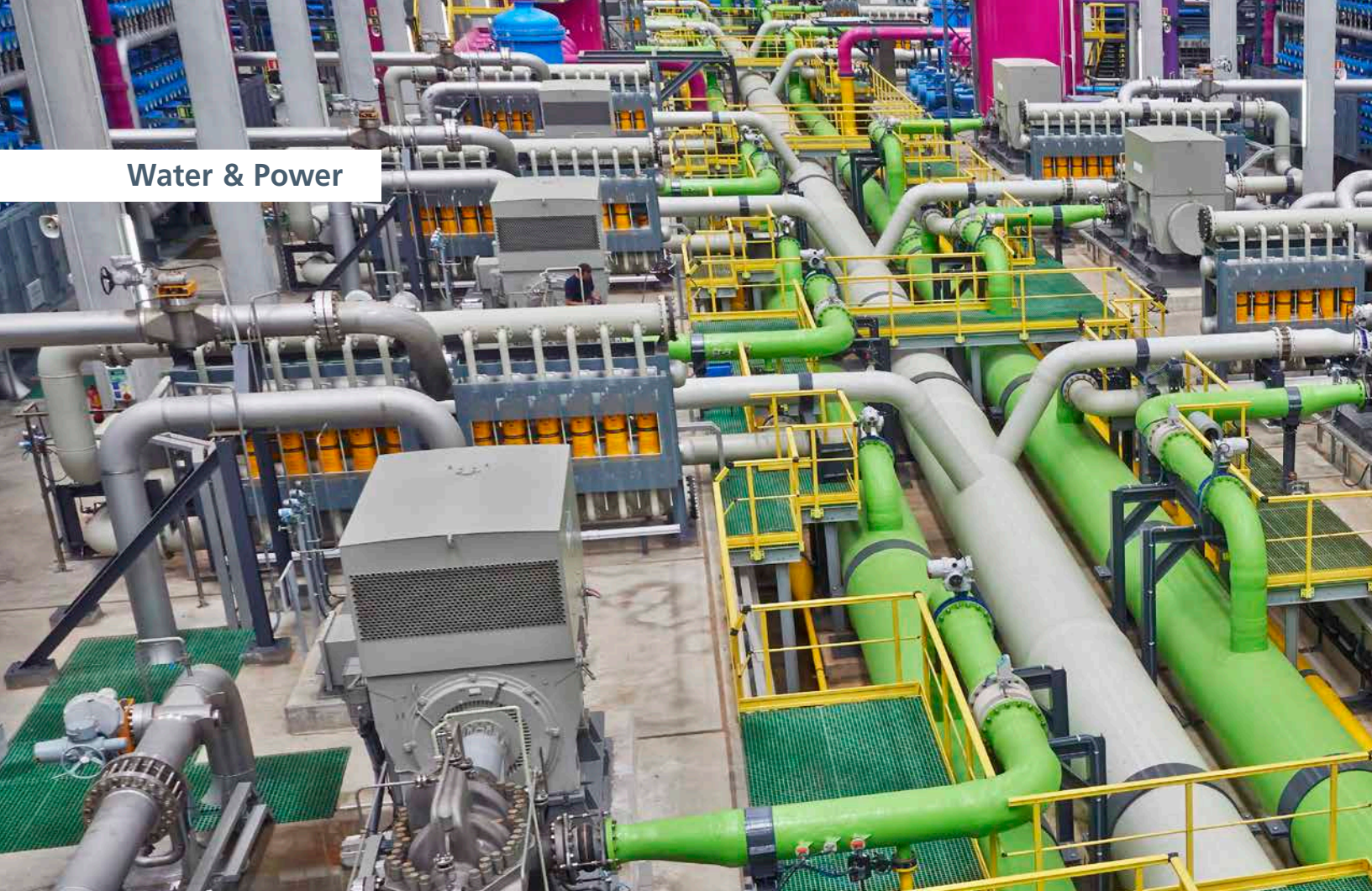
Customers around the world rely on Rotork for innovative, high quality engineered and dependable solutions for managing the flow of liquids and gases in the water and power industries. We help meet the challenges of water management and power generation and have a detailed understanding of your requirements.

Rotork products control thousands of valves in the water and wastewater industry. Our flow control products are used in potable water treatment including filtration, desalination and distribution. We are involved in level control in dams, reservoirs and irrigation systems. Rotork helps protect the environment by controlling wastewater plants, improving effluent processing and ensuring clean safe output from sewage treatment plants.

Wherever there is coal, natural gas, nuclear, solar, biomass or geothermal power generated globally, you'll find Rotork flow control products. We help meet the challenges of power generation and have a detailed understanding of the demands and requirements that plant operators face, including diverse applications such as onshore and offshore wind farms and conventional thermal power stations.

For both the water and power industries, we provide robust, reliable equipment helping to ensure safe and efficient operation.

## Water & Power



### Water

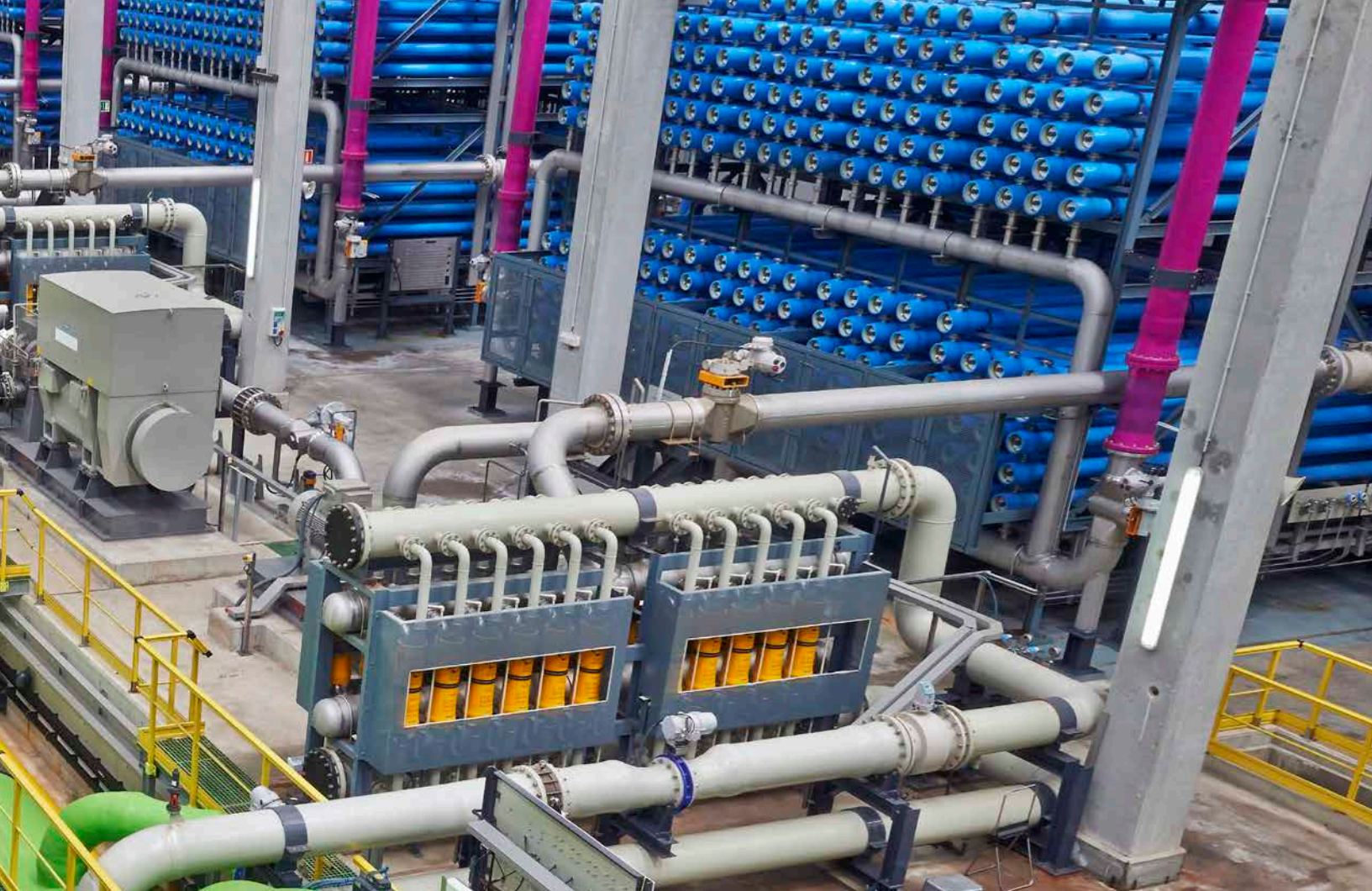
Rotork specialises in manufacturing actuators and flow control equipment for every part of the water industry. Managing a water plant is a complex operation, where safety and efficiency are paramount. Water plants that meet the necessary quality and environmental standards rely on actuators for controlling and monitoring the process from start to finish. Rotork flow control products can provide information about the operation of the plant, along with control and maintenance functions. Our valve actuators are widely recognised as being the most technically advanced, reliable, robust, and user-friendly actuators available.

Our skills, knowledge and experience place us at the forefront of the water industry. We focus on meeting several of your core needs. These include support at the specification and planning stage, a focus on cost efficiency, clarity of information, durability, reliability, water safety and ongoing support.

### Wastewater

Managing a wastewater treatment plant requires constant supervisory control and data acquisition (SCADA) overseeing every step of the operation. Rotork has over 60 years' experience in serving the wastewater industry and specialises in producing actuators and flow control products for every stage of the process, ensuring efficient effluent treatment and protection of the environment.

Rotork supplies equipment that you can completely rely on, with real durability, complete reliability and very low maintenance requirements, providing you with efficient remote control for every part of your operation.



### Renewable Power

Wherever there is power generated worldwide, you'll find Rotork's specialist teams at work, helping plant designers and operators to optimise performance, reliability and above all, safety. Renewables are the fastest growing sector in the power industry. We have innovative solutions that help support the power industry applications at wind farms, concentrating solar power plants (CSP), hydroelectric, biomass and geothermal power plants worldwide.

We have been involved in the power generation industry since 1957 and have a track record of developing electric, pneumatic and hydraulic actuation and flow control solutions. Our full range of engineered products are designed to meet the stringent requirements of the power industry. They are accurate, robust and efficient and meet the high standards our customers require.

### Nuclear Power

The nuclear power industry demands safety, reliability and efficiency from power plants and the distribution networks.

We supply a comprehensive range of flow control products for use in nuclear power plants, for outside containment areas. Our products meet the high standards of efficiency, accuracy and safety that our customers require.

### Conventional Thermal Power

From coal to natural gas, fossil fuel accounts for the majority of power generation around the world.

Rotork provides solutions for managing control valves and dampers, and steam and water isolation valves in order to meet the most stringent requirements and keep our customer's power generation facilities running smoothly, safely and efficiently. Rotork's products meet the needs of traditional power stations, providing energy efficient and cost effective flow control solutions that help plants meet and exceed modern regulations.

Rotork actuators – including electric, pneumatic and hydraulic – have been designed to operate in extreme environments, including severe vibration, high temperature and dust in the atmosphere. Our products control many key areas in power plants, preventing excess emissions and managing the temperatures and pressures within the plants, as well as enabling the efficiency of burn and preventing wastage of fuel.

*Above: Rotork IQ and IQT actuators, gearboxes and network control systems are used in reverse osmosis water desalination plants such as this one in Spain*



## Chemical, Process & Industrial (CPI)

*This Page: Plastic recycling processes rely on precision flow control equipment to produce clean reusable plastics*

*Facing Page: Rotork products are used extensively in industrial environments such as cement manufacturing*

- › Track record of innovation and proven results in complex applications
- › Specialist knowledge to provide wide ranging, customised solutions
- › Global network of manufacturing, stock centres and service facilities
- › Innovative product portfolio to maximise productivity



Rotork offer products and solutions for chemical, process and industrial markets. With a comprehensive product portfolio and over 60 years of experience, Rotork's expertise helps to deliver improved safety, greater productivity and reduced maintenance for plants and equipment.

Rotork creates value by partnering with our customers in the chemical, process and industrial markets to deliver intelligent flow and process automation solutions that maximise their operational reliability and efficiency.

By extending across this broad range of industries which convert key raw materials such as hydrocarbons, minerals and gases into manufactured products (as well as their safe transportation and storage), Rotork products offer quality and high performance in all applications.

Whether you are a producer of chemicals for use as lubricants, adhesives, battery and fuel cells; a mining company; a manufacturer of iron, steel and aluminium materials; a producer of paper, glass or cement; or part of the wider manufacturing industry, Rotork can help you meet your goals.

## Chemical, Process & Industrial (CPI)



Our specialist knowledge means that we can customise the range of solutions that we offer, dependent on the industry and application or customer requirements.

### Chemicals

Rotork adds value in the chemical manufacturing process through the safe, accurate and reliable operation of our flow control solutions. Our specialist knowledge for isolation, control and flow regulation of liquids and gases enables our customers to minimise their capital and operational expenditure, while maximising their productivity and uptime for essential equipment.

Our products provide the exacting levels of durability, reliability and safety that our clients require. From olefins and aromatics through to speciality chemical producers such as adhesives, ceramics and lubricants; the production of polymers, thermoplastics and polyamides; inorganics such as chlorine and acids; agrochemicals and fertilisers; industrial gases such as nitrogen, oxygen and hydrogen, Rotork plays a key role in process automation.

In explosive atmospheres or harsh corrosive environments, Rotork's technologies and intelligent solutions are designed to be both robust and reliable, ensuring a clear value proposition to the end user.



### Process

Rotork supports the process industry by adding value for our clients through the safe and accurate operation of our flow control solutions. Our specialist knowledge for isolation, control and flow regulation of liquids and gases provide an essential element of the complete process control and automation system.

From the mining and extraction of coal and minerals, through to their transformation into the key fundamental everyday use materials such as steel, aluminium, glass, paper and cement, Rotork's technologies and products provide accurate monitoring and control.

Rotork solutions are also found in critical utilities such as HVAC as well as flow, temperate and pressure control of the manufacturing process for industries such as food and beverage, pharmaceuticals and textiles. Across the whole world, in Europe, the Americas, Asia and the Middle East, Rotork can offer local expertise for any application.

### Industrial

Rotork creates value in the industrial equipment and transportation industries by providing value for the end user through the safe and accurate operation of our flow control solutions. Our specialist knowledge for isolation, control and flow regulation of liquids and gases provide an essential element in the operation and protection of equipment and machinery.

In heavy industries such as shipbuilding, especially for transportation vessels such as liquefied natural gas (LNG) carriers, chemical tankers and very large crude carriers (VLCC), Rotork's position as an industry leader in the oil and gas sector provides a recognised name to end users for critical flow control and safety.

In both transportation of goods and people by rail or commercial vehicles, Rotork products are trusted to operate continuously in critical safe applications. Rotork's solutions and products are used in a variety of applications across the industrial sector ranging from industrial and factory equipment, to transportation and machinery.

*Above: Rotork CVA actuators used to remotely control the essential cooling systems and water pumps on an off-shore wind farm in the German North Sea*

## Global Capabilities and Facilities

We are a global company with local support, providing assured reliability for critical applications and environments. Rotork has been recognised as the market leader since 1957 and our experience of flow control is second to none.

Our engineering and application knowledge base allows us to provide innovative and reliable solutions for all flow control applications. We work across the globe, servicing a diverse range of markets and critical applications.

### Customer Partnerships

Rotork is committed to close customer ties and our global network of offices and manufacturing sites support operations in some of the most remote and challenging environments imaginable. We support our customers by understanding their needs and challenges. We believe that our continued commercial success and long-term relationships with clients stems from understanding their business environment thoroughly. Our unrivalled worldwide sales and service network ensures a Rotork contact point is available for customers in any region to help global industries improve efficiency, assure safety and protect the environment.

### Global Sales and Service

Rotork operates a truly global network of sales offices, service centres and manufacturing plants across Europe, Asia, Africa and The Americas. Our research and development activities across the globe ensure innovative and reliable products are available for every application and every environment. This is why our sales organisation is structured primarily around the industries we serve. Local sales offices allow our specialists to remain in touch with regional drivers and legislative forces and are close to hand when needed for information and advice.

### Global Manufacturing

Rotork's manufacturing strength has been built over 60 years, with successful international organic growth and strategic acquisitions. During this time we have developed ways of working across borders and time zones that maximise local skills and links, while leveraging group resources and expertise.

### Supply Chain Integration

We work closely with partners - from valvemakers to civil engineering contractors - who have operations throughout the world.

Our factories and operational centres are strategically sited to provide the best opportunities for collaboration and to streamline manufacturing supply chains.





*Top: GP pneumatic actuators and instrumentation systems operating at an oil terminal, Finland*

*Left: Pneumatic and hydraulic actuator manufacturing facility, Lucca, Italy*

*Above: IQ actuator production line testing station, Bath, UK*

## Providing Service Support and Analytics

Rotork Site Services have specialist expertise and insight in service provision for mission-critical flow control and instrumentation solutions in oil and gas, water and wastewater, power, chemical, process and industrial applications.

We offer global frontline support backed by dedicated in-house experts. Our service solutions increase plant efficiency, while workshop services return equipment to as-new condition. Rotork Site Services is comprised of two main areas; Lifetime Management and Site Services.

### Global Service and Support

Rotork understand the importance of prompt and punctual customer service. With over 60 years' experience of service support for the industrial actuation and flow control markets, our expertise delivers improved safety, greater productivity and reduced maintenance for plants and equipment. With established worldwide Support Centres, we can offer same-day or next-day service to most of our customers. We use internationally recognised quality management standards to ensure consistently high levels of service worldwide.

### Lifetime Management

Lifetime Management is the suite of services within Rotork Site Services which help customers manage the life cycle of their assets. The customisable services available offer a complete solution to managing the risks associated with the life cycle of equipment and obsolescence. The aim of Lifetime Management is to provide customers with constant support and minimum- to- no disruption to production flow. It includes Reliability Services, as well as planned shutdown and upgrade services, and our training and analytics capabilities. Lifetime Management includes a customised spares programme.

### Site Services

Site Services provides the essential on-site actuator service, repair, maintenance and upgrades part of our service offering, plus the commissioning of new actuators and applications. It includes off-site work completed at a Rotork Support Centre including recertification, automation, testing and product selection. We repair actuators when required and provide ongoing support and upgrades; workshop services return equipment to as-new condition.

- › Planned Shutdown Support
- › Actuator Workshop Overhaul
- › Field Support
- › Valve Automation Services
  - › On-site
  - › Off-site



*Top: Rotork IQ actuators, control systems and electrical supply systems installation and commissioning, Ireland*

*Left: Installation and commissioning of Rotork IQ actuators and spur gearboxes, The Netherlands*

*Above: Rotork factory fit service provides fitting of actuators and instrumentation to gearboxes and valves prior to site delivery*

# rotork®



[www.rotork.com](http://www.rotork.com)

A full listing of our worldwide sales and service network is available on our website.

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