Full in-house precision

RIKON's global surge in port and bulk cargo solutions



RIKON (RIKON Joint Stock Company) is a European manufacturer of heavy lifting and port machinery. Headquartered in Riga, Latvia, the company specializes in robust bulk material handling solutions designed for demanding port, terminal, and industrial operations.

The company's primary bulk equipment line includes specialized level-luffing portal cranes, rail-mounted gantry systems, and rubber-tyred gantry cranes. To support bulk cargo — such as grain, coal, and scrap metal — RIKON produces custom heavy-duty clamshell and multi-jaw grabs equipped with high load capacities. Designed for continuous operation, RIKON's custom-engineered bulk equipment offers long operational lifespans, precise remote-control handling, and corrosion-resistant durability.

Bulk handling portfolio

RIKON's bulk equipment range includes its very popular RPS series portal cranes in single-jib and double-jib level-luffing designs. They can be supplied complete with grabs and hoppers, including kangaroo-type cranes with an integrated hopper. The company is also expanding into grab ship unloaders and complete bulk handling systems, and is ready to supply this equipment.

Container and intermodal handling

A staple of RIKON's container portfolio is its rail-mounted gantry (RMG) cranes for container and intermodal terminals, including remote-controlled versions equipped with the company's own RROS (see below for more details) system and automated A-RMG cranes, the first of which are in the final stage of commissioning in Madrid.

Also very popular are its rubber-tyred gantry (RTG) cranes and mobile harbour cranes.

Commodities handled

RIKON's portal cranes are multi-purpose machines, but their core application is dry bulk handling. With mechanical or electro-hydraulic clamshell grabs, they handle practically every type of dry bulk cargo: coal and coke, iron ore and concentrates, bauxite and other ores, grain and agribulks, fertilizers, salt, sulphur, clinker, limestone, sand and aggregates, as well as light materials such as wood chips and biomass pellets. Each grab is designed for the specific cargo, with its volume and jaw design matched to the material's bulk density and lump size.

By changing the attachment, the same crane can also handle other cargo:

- multi-tine grabs for scrap metal, pig iron and other irregular bulk materials;
- lifting magnets for steel plates, slabs and billets;
- C-hooks for steel and wire rod coils;

Two fully electric double jib level luffing cranes shipped fully assembled

- **Customer:** OYAK (OYAK Mining Metallurgy Group) — end user: Isdemir
- **Equipment:** 2 × RPS-1600 double jib level luffing cranes (63t, fully electric)
- **Cargo type:** bulk — steel products (coils, slabs, billets) and bulk raw materials (iron ore, coking coal, scrap)
- **Location:** Iskenderun, Türkiye
- **Delivery completed:** 2025 — assembly completed Sep 2025, shipped fully assembled from Riga (Nov 2025), delivered to Iskenderun Bay



RIKON designed, manufactured and supplied two 63-tonne Double Jib Level Luffing cranes for the Isdemir steel works on Iskenderun Bay in Turkey, the country's only integrated steel plant producing both long and flat products, part of the OYAK Mining Metallurgy Group. Custom-engineered to the customer's specific technological requirements and operating conditions, each crane is built to the highest crane duty classification (A8) with increased safety margins, uses fully electric drives with no hydraulic mechanisms, and was loaded fully assembled onto a heavy-lift vessel, reducing installation and commissioning time on site. The project opened a new export route into Türkiye for RIKON and highlights its ability both to build high-capacity portal cranes and to deliver them by sea in fully assembled condition, strengthening its position among Europe's specialist manufacturers of heavy lifting equipment.

The challenge

The Isdemir steel works, Turkey's only integrated plant producing both long and flat products and part of the OYAK Mining Metallurgy Group, required high-capacity lifting equipment built to the highest duty classification, with increased safety margins for the continuous, high-intensity operation of an integrated steel plant, combining heavy lifting performance with energy-efficient electric operation and fast deployment at a working site on the Mediterranean coast.

The solution

RIKON delivered two RPS-1600 Double Jib Level Luffing cranes, each with a 63-tonne lifting capacity, a 36-metre outreach and fully electric drives with no hydraulic systems. Built to the highest crane duty classification (A8) with increased safety margins, the cranes were developed specifically for the plant rather than adapted from a standard design. They were fully assembled at RIKON's Riga facility and loaded in one piece onto a heavy-lift vessel, shortening installation and commissioning at the destination port.

Project significance

The delivery to Isdemir marks a significant milestone for RIKON, opening a new export route into the Turkish market and demonstrating its ability to build and ship large portal cranes in fully assembled condition, an operation made possible by the dedicated assembly berth at its Riga facility. Isdemir is a strategic national asset within the OYAK Mining Metallurgy Group, part of OYAK, one of Turkey's largest industrial conglomerates.



- mechanical and electric spreaders for 20ft and 40ft containers; and
- hook and lifting beams for pipes, timber, big bags, machinery and project cargo

This flexibility means that a terminal can handle changing cargo flows with the same equipment.

Customer base

RIKON's equipment is used widely. Specific examples of dry bulk clients include:

- Riga Central Terminal, Latvia;
- OYAK Group, Türkiye;
- Batumi Sea Port, Georgia; and
- APM Terminals Poti, Georgia

In the container, intermodal and other applications fields, customers include:

- ADIF, Spain (state-owned railway

infrastructure manager);
- BEHALA, Germany (Berlin port operator);
- Interport, Slovakia (intermodal terminal in Haniska near Košice);
- Marseille Fos Port, France; and
- Port of Brest, France.

Modern, in-house engineering

RIKON knows that it is in a very competitive market, and much of its competitiveness us due to its full in-house cycle. Its cranes are designed and manufactured at its own production facilities in Riga, Latvia, by its own team of mechanical and electrical design engineers, software developers, production, assembly and maintenance specialists, and commissioning engineers. Every stage, from design to start-up at the customer's terminal, is handled by RIKON specialists, which lets it control quality and lead times and adapt each crane to the customer's needs. RIKON's RPS portal cranes, in both single-jib and double-jib level-luffing designs, are built for intensive grab operation, with grabs and mechanisms specified for each terminal's cargoes, from heavy ores to light agribulks.

Fully assembled delivery.

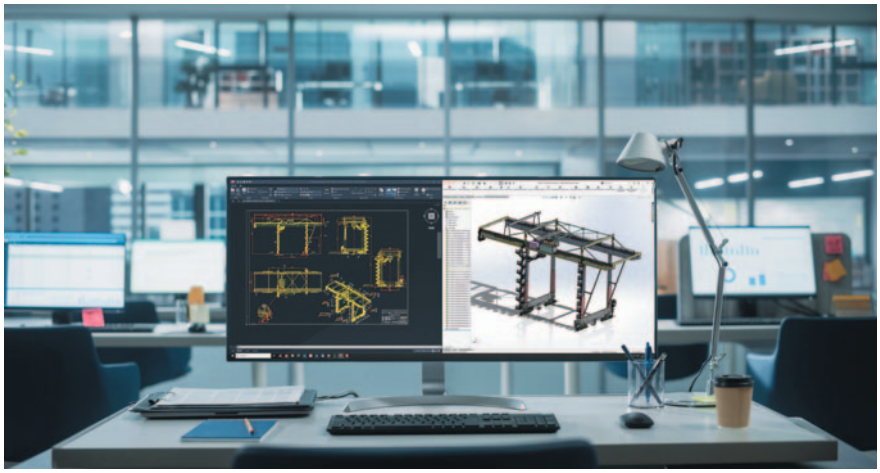
RIKON's production site in Riga has its own quay, so it can ship cranes fully assembled by heavy-lift vessel. This significantly shortens installation time and gets the terminal's operations running sooner.

Technology. RIKON keeps its equipment in line with the latest technology and regulatory requirements. It has developed its own RIKON Remote Operation System (RROS), currently implemented on its RMG cranes, and its first automated RMG cranes (A-RMG) are in the final stage of commissioning in Madrid. RIKON's equipment is designed to comply with the new EU Machinery Regulation (EU) 2023/1230, which applies from 20 January 2027.

Global presence. RIKON takes part in public tenders worldwide, across Europe, the Americas, Asia, the Middle East and Central Asia. Its current and recent projects span Europe, Türkiye, the Caucasus and North Africa.

Diversification. Bulk handling remains at the core of RIKON's work, and it is building on this. In addition to its RPS portal cranes, RIKON now offers ship-unloaders, complete bulk handling systems and mobile harbour cranes. It also supplies RMG and RTG cranes and takes on crane relocation projects: in Morocco, we recently relocated two cranes from the port of Casablanca to Safi.







Recent projects

- **OYAK Mining Metallurgy Group, Türkiye:** four RPS-1600 double-jib level-luffing cranes (63 t, 36 m outreach, A8 duty classification, fully electric drives with no hydraulics). The first two were shipped fully assembled from Riga in November 2025 to the Isdemir steel works on Iskenderun Bay; the other two are scheduled for shipment at the end of 2026 to Erdemir in Karadeniz Eregli on the Black Sea. See box 'Two fully electric double jib level luffing cranes shipped fully assembled' on pxx for details.
- **Interport, Slovakia:** two 41t electric single-cantilever gantry cranes (span 59.15m, outreach 14m) for a dual-gauge (1,435/1,520 mm) intermodal terminal. Shipment began in September 2026; both cranes are fitted with RROS.
- **BEHALA, Berlin, Germany:** a trimodal Barge-RMG (40 t under spreader, up to 47t short-term, span 31.3m). Delivery is complete, the crane is being assembled on site, and commissioning is planned for 2026.
- **A leading Turkish industrial company:** two RPS-1100 portal cranes

(up to 50t, hook and grab operation), shipped fully assembled in July 2026.

- **ADIF, Madrid, Spain:** three fully automated rail-mounted gantry cranes (A-RMG) with RROS remote operation for Spain's flagship intermodal hub, currently in the final stage of commissioning.

Recent technological developments

Notable developments include the Barge-RMG for BEHALA's multimodal terminal in Berlin. RIKON developed a trimodal crane that transfers containers between rail, road and inland waterway vessels. Once commissioned, it will be the largest container crane in the Berlin/Brandenburg region.

Of particular note is RIKON's RROS (RIKON Remote Operation System) and automation. RIKON's proprietary remote operation system was first commissioned on gantry cranes in Valencia (more details below) and is fitted on both the cranes that it is supplying to the Interport intermodal terminal in Haniska, Slovakia. For ADIF, Spain's state railway infrastructure manager, RIKON has supplied three fully automated rail-mounted gantry cranes (A-RMG) to its flagship intermodal hub in Madrid (more details below). The cranes, now in the final stage of commissioning, operate in fully automatic mode and can also be controlled remotely via RROS.

RIKON equips Valencia gantry cranes with proprietary RROS Remote Control System

RIKON has successfully deployed and commissioned its proprietary RROS (RIKON Remote Operation System) on two 40-tonne RMG container cranes operating at the Valencia-Font de Sant Lluís intermodal terminal in Spain.

The successful launch of RIKON's in-house remote control system marks a significant milestone, placing the company among a select group of global manufacturers capable of not only producing heavy-lift equipment but also designing and implementing comprehensive high-tech IT solutions for it.

A technological leap for terminal infrastructure

The integration of RROS represents a qualitative step forward for the terminal's operational capabilities. Each of the two RMG cranes is now connected to a dedicated remote workstation, fundamentally transforming the approach to heavy equipment operation:

- **Enhanced precision and control:** operators manage multi-tonne machinery with maximum accuracy from ergonomic control consoles located in a comfortable office environment.
- **Improved safety and working conditions:** personnel are fully protected from adverse weather conditions and the occupational hazards associated with on-site crane operation.

A strategic venue for innovation

The deployment took place at the Valencia-Font de Sant Lluís terminal, operated by ADIF — Spain's national railway infrastructure authority — underscoring the growing demand for advanced automation solutions within the country's state-managed logistics network.

Commitment to automation

The successful RROS launch in Valencia is part of RIKON's broader global strategy to automate logistics processes. The company is currently advancing a parallel project at another ADIF facility — the Madrid-Vicálvaro terminal — where RIKON is supplying three fully automated 40-tonne gantry cranes (A-RMG). This contract further reinforces RIKON's standing as a leading provider of cutting-edge technological solutions for multimodal freight transportation.

Three fully automated rail-mounted gantry cranes with RROS remote operation for Spain's flagship intermodal hub

- **Customer:** ADIF (Administrador de Infraestructuras Ferroviarias)
- **End user:** Madrid-Vicálvaro Intermodal Terminal
- **Country/city:** Madrid, Spain
- **Industry:** rail/intermodal logistics
- Cargo type: containers (ISO, intermodal)
- **Crane model:** A-RMG (Automated Rail Mounted Gantry)
- **Quantity:** 3 units
- **Contract year:** completed in 2026

The challenge

ADIF required a fully automated handling solution for Spain's most strategically important intermodal terminal. The facility had to be operational from launch, with unmanned crane operation, integration with national rail infrastructure, and capacity to scale with growing container traffic from both Mediterranean and Atlantic corridors.

The solution

RIKON delivered three identical A-RMG units engineered for fully automated operation and integrated with RROS — RIKON's proprietary Remote Operation System. The cranes were dispatched, eliminating intermediate handling and shortening delivery timelines. All three units arrived ready for on-site assembly and commissioning.

Project significance

The Madrid-Vicálvaro Terminal is the largest single ADIF investment in intermodal infrastructure to date — over €300 million — positioning it as the primary logistics hub for central Spain. RIKON's contribution forms the entire automated container handling fleet at the facility.

About RIKON

RIKON is a crane manufacturer based in Riga, Latvia. The company traces its roots to 1954.

Today RIKON employs around 130 people and operates production facilities of approximately 30,000m², with its own quay and everything needed to manufacture crane steel structures in-house.

RIKON has recently exhibited on its own stand at TOC Americas in Cartagena, and will be at Breakbulk Asia in Singapore (18–19 November 2026). DCi

