

Cranes

We provide cranes to carry out any activity within the port area.

All cranes are aimed to the specific requirements of the customers, always with the following principles: safety, high performance, precision of movement, low maintenance and operation cost, and maximum availability.

A new concept has been added: automation. To achieve automation of cranes, the latest computer, artificial vision, GPS, and Wi-Fi technologies are used.



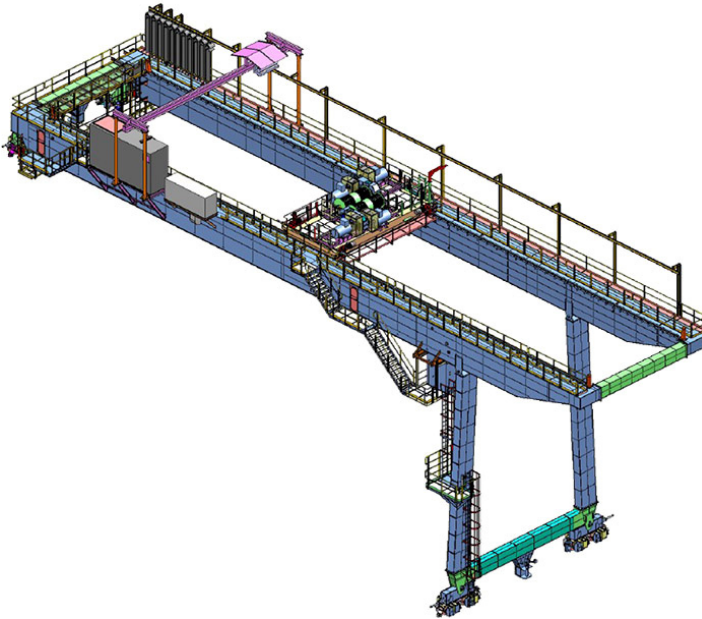
FEATURES

- **Cranes for Ports:** We are present in the port sector through the provision of installation of: "rope trolley" solution, carriage mechanisms, as well as hydraulic bucket unloaders for scrap, coal and fertilizers. Our unloaders can unload from barges to Capesize type ships of 200.000 Ton (DWT).
- **Container Handling:**
 - Ship to Shore ": container ship unloading.
 - Rail park RMG (RAIL MOUNTED GANTRY).
 - Wheeled park RTG (RUBBER TIRE GANTRY).

- **Shiploaders:** The shiploaders on rails or tires adapt their construction and size to the conditions and needs of each client. The combination of movement along the vessel and the movement of the feather ensures an efficient loading of ships of different sizes.
- **Port terminals:** we design and supply equipment to suit the existing port facilities and integrate various equipments for loading, unloading and handling of bulk materials.

We also have mixed cranes to unload containers and pallets, and cranes for handling containers of nuclear waste to nuclear power plants.

Cranes



Standard or mass-produce products are not manufactured. Everything is built under client specifications.

Port Cranes

These kind of cranes are equipped with devices to reduce the times by anti-roll and with the most sophisticated systems to support the operation and maintenance. Furthermore, depending on the environmental characteristics and the product to unload, it is possible to install systems to reduce dust. The unloading capacity can be up to 2.500Ton/h. F.D.R. (Free Digging Rate), which is equivalent to 50Tn under wires.

Container Crane	Ship to Shore	Rail Park (RMG)	Wheeled Park (RTG)
Crane traslational speed (m/min)	45	120	130
Cart traslational speed (m/min)	180	80	70
Lifting Speed (m/min)	140	44	27
Container Capacity		Up to 45 feet	Up to 45 feet
Max containers		3-6-3	
Light (beam width) (m)		45	30

Ship Loaders

Most important types:

- RMG (RAIL MOUNTED GANTRY) - capacity up to 3,500 Ton/h.
- RTG (RUBBER TIRE GANTRY) - capacity up to 2,000 Ton/h in Panamax type ships.

Port Terminals

Most important types:

- Ecological Wheeled organic bins, fixed and mobile on rails, with capacities up to 7.000 Ton/h.
- Band conveyors and special continuous transport installations, fixed, mobile and ripables conveyors with bandwidths from 650mm up to 5,200mm, and transport capacities up 13,000 Ton / h.