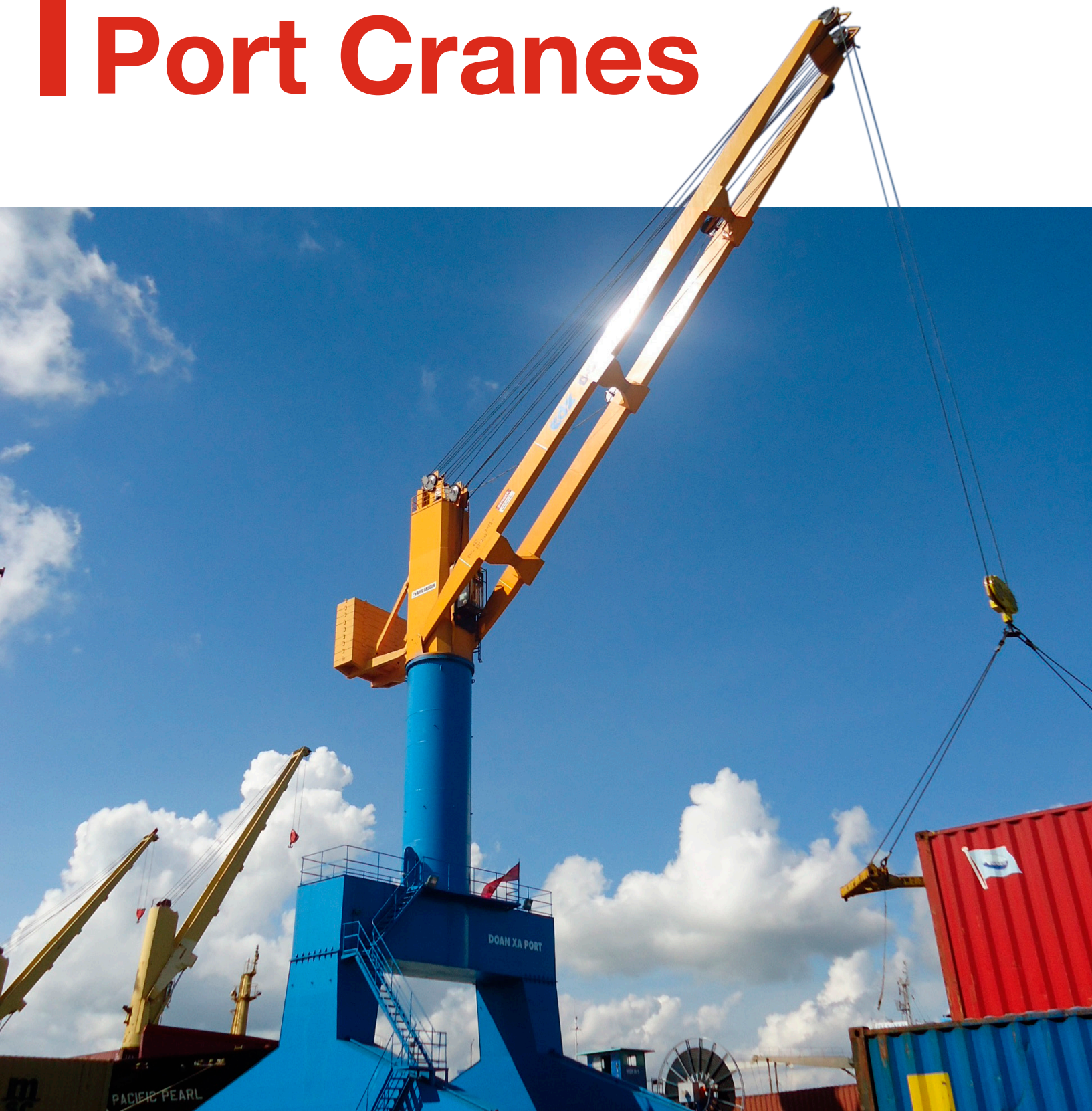


MacGregor Port Cranes



MACGREGOR

Designed to perform with the sea

Designed for handling bulk, containers and general cargo



MacGregor Port Cranes are a perfect solution for small and medium sized ports. The investment cost is low when comparing lifting capacity, tons per hour, energy consumption and expected running hours per year. With high cargo efficiency the MacGregor port cranes will give you a high performance port.

The MacGregor Port Cranes are designed to handle bulk cargo or container and general cargo. They can be fixed mounted to a jetty or quay on a pedestal or gantry or on a travelling gantry. Cranes can be equipped with various tools required to handle specific types of cargo.

General design

MacGregor Crane types are wire luffing or cylinder luffing. Wire luffing

types can be either with an electro-hydraulic system or pure electric with a variable frequency drive (VFD) system. Cranes are self contained units and all machinery inside crane house is weather protected from dust, corrosion and damages.

Cranes are designed to fulfil A5 crane classification according the FEM-classification (Federation Europeenne de la Manutention).

Control system – CC3000

The MacGregor control system, CC3000 ensures smooth, fast and stepless crane control and continuously provides the driver with real-time weight and outreach data on a display. The monitoring capabilities are excellent and diagnostic functions are integrated.



MacGregor Port Cranes can be fixed mounted on pedestal, gantry or travelling gantry

Wire luffing cranes

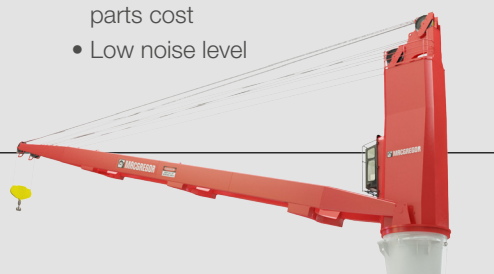
Electro-Hydraulic cranes specifics GL, GLB and K4 rope crane

- Closed loop hydraulic system enables to run hoisting, luffing and slewing motions simultaneously with full speed and load
- Low power consumption
- Excellent positioning performance
- Level-luffing
- K4 made for Heavy duty operations, A7

Hoisting capacity: 15-50 t
Jib radius: 20-36 m
Hoisting speed: 19-50 m/min

Electric (VFD) cranes specifics GLE and GLBE

- Variable Frequency Drive, VFD
- Low power consumption
- Precise and fast cargo handling
- No hydraulic oil
- Low maintenance and spare parts cost
- Low noise level



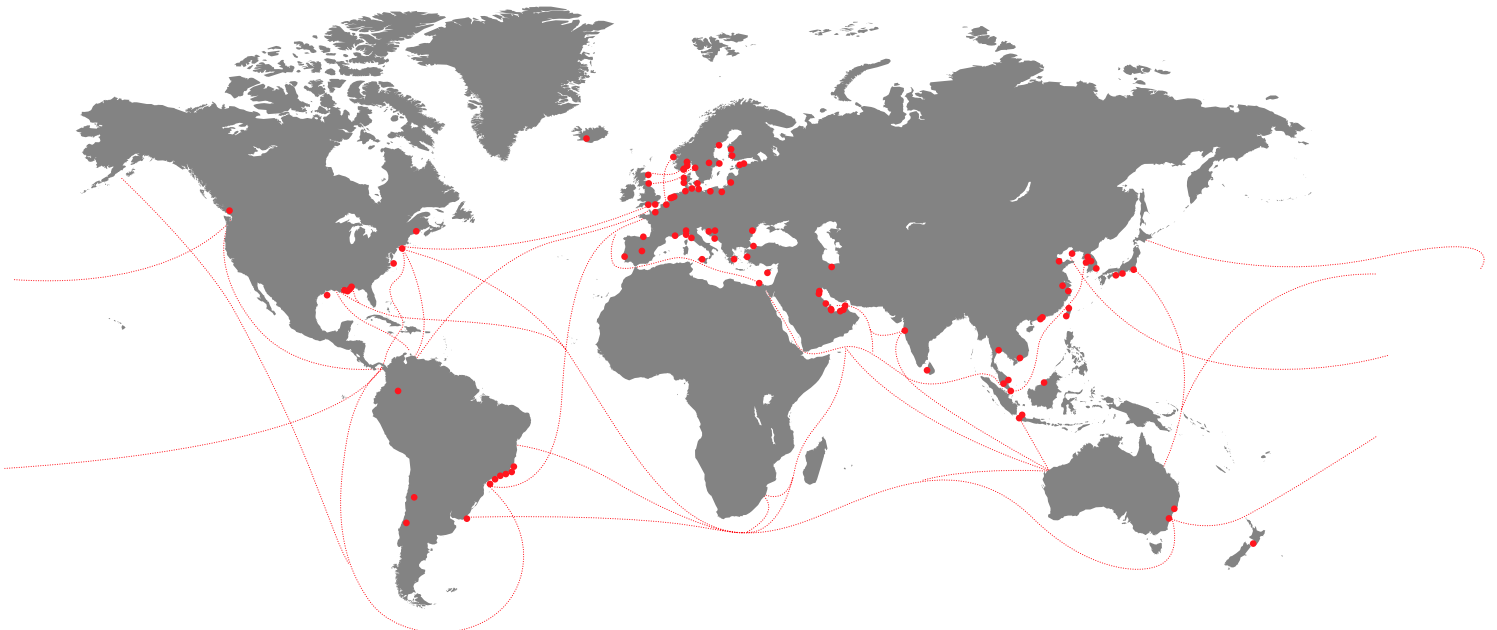
Cylinder luffing crane

Electro-hydraulic cranes specifics LC

- Self contained units. Only hoisting winch and luffing cylinders outside.
- Closed loop hydraulic system enables to run hoisting, luffing and slewing motions simultaneously with full speed and load
- Low power consumption

Wherever needed, you can rely on our support.
We serve the following brands globally, and we also serve all others.

- Ankerlökken Marine
- Allset
- ASCA
- Becker
- BMH
- Conver-OSR
- Grampian Hydraulics
- Flintstone
- Greer Marine
- Hamworthy
- Hatlapa
- Hydramarine
- Häggglunds
- KGW
- KYB - ASCA
- KYB - Kayaba Industries / Navire Cargo Gear
- Luezhoe
- MacGregor
- MacGregor-Conver
- MacGregor-Häggglunds
- MacGregor-Kayaba
- MacGregor-Navire
- Navire Cargo Gear
- Nordströms
- Ozean Service & Reparatur
- Platform Crane Services (PCS)
- Plimsoll
- Pusnes
- Porsgrunn
- Triplex
- Vestnorsk Hydraulikkservice (VNH)



MacGregor shapes the offshore and marine industries by offering world-leading engineering solutions and services with a strong portfolio of MacGregor, Hatlapa, Porsgrunn, Pusnes and Triplex brands. Shipbuilders, owners and operators are able to optimise the lifetime profitability, safety, reliability and environmental sustainability of their operations by working in close cooperation with MacGregor.

MacGregor solutions and services for handling marine cargoes, vessel operations, offshore loads, crude/LNG transfer and offshore mooring are all *designed to perform with the sea*.

MacGregor is part of Cargotec (Nasdaq Helsinki: CGCBV).

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