

GustoMSC 4,000 t Offshore Crane



Make	GustoMSC
Crane model	GDC-4000-ED
Drive system	Electric by means of VSDs
Type	A-Frame

Description

The GustoMSC GDC series is a range of heavy lift, fully revolving offshore derrick cranes. These cranes can revolve 360° unrestricted. The GDC-4000-ED is capable of lifting its maximum load of 4,000 tons in tie-back mode at a minimum radius of 43 m with a dynamic factor of 1.1.

The crane is an electric driven, rope luffing, A-frame crane revolving on a bogie roller system, located on top of a tub collar of a heavy lift vessel, barge or semi.

The GDC-4000-ED combines a high capacity & high outreach with a short minimum radius and makes it ideally suited for installation of wind turbine parts and/or other heavy components.

General Specifications

Main dimensions

Weight of crane (completely equipped, incl. tub & tub collar)	4,000 t
Tail swing	19 m

Main hoist

Fixed tie back mode (over the stern)	
Hoisting capacity @ radius	4,000 t @ 43 m
Min. radius on even keel	approx. 25 m
Hoisting height above main deck @ 33 m	approx. 85 m

Revolving mode

Hoisting capacity @ radius	3,500 t @ 33 m
Min. radius on even keel	approx. 25 m
Hoisting height above main deck @ 33 m	approx. 85 m

Auxiliary Hoist

Hoisting capacity @ radius	800 t @ 90 m
Min. radius on even keel	approx. 29 m
Hoisting height above main deck at min. radius	approx. 105 m

Whip Hoist 1

Hoisting capacity at max. outreach	70 t @ 105 m
Min. radius on even keel	approx. 32.5 m
Hoisting height above main deck at minimum radius	approx. 110 m
Man riding lifting speed acc. rules	

Whip Hoist 2

Hoisting capacity	50 t
Located between main hoist and aux. hoist	

The Netherlands

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Tugger winches

Load tuggers	4 x 40 t
Main block tugger	25 t
Aux. and whip block tuggers	2 x 10 t

Power supply

Main power supply to crane	6,600 V, 50 Hz
Total crane power consumption	4,000 kW

Rules & Regulations

These cranes will be built, equipped and tested to obtain Class certificate (ABS, DNV, GL, LRoS). For the crane's main mechanical components as well as for the total crane, a class of utilization, a class of loading and a group classification are determined according to the FEM rules for the design of hoisting appliances.

Crane lay out

The crane consists of a fixed part (tub & tub collar) and revolving parts mounted to the slewing platform. On top of the tub a typical GustoMSC bogie wheel system (consisting of balanced front, aft

and counter wheels) provides unrestricted continuous slewing of the crane. This robust system is applied on many GustoMSC offshore cranes, like the Balder, Hermod, DB101 etc. The crane boom is a lattice tubular structure made of extra high tensile steel.

The hoist winches are electrically driven. The hoisting speeds are continuously variable and load dependent. All driver controls can be monitored via a TFT-screen located in the control cabin.

Safety equipment

The crane is equipped with the latest safety equipment like; Overload protection, Limit switches, Wind speed meter with indicator and alarm in the cabin. Slewing alarm signal device (visual and audible), Emergency stop push buttons, Slack rope protection, active boom stopper, fire extinguishers and fire detectors, CCTV monitor is located in the control cabin.

Data presented in this product sheet is for information only and subject to change without notice.

