

GustoMSC 5,000 t Offshore Crane



Make	GustoMSC
Crane model	GDC-5000-ED
Drive system	Electric by means of VSDs
Type	Foldable A-Frame

Main hoist	
Hoisting capacity and radius (fully revolving)	5,000 t @ 32 m 2,500 t @ 54 m 740 t @ max. outreach 84.5 m

Description

The GustoMSC GDC series is a range of heavy lift, fully revolving offshore derrick cranes. These cranes can revolve 360° unrestricted. The GDC-5000-ED is capable of lifting and fully revolving its maximum load of 5,000 tons at a minimum radius of 32 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-5000-ED combines a high capacity & high outreach with a short minimum radius and makes it ideally suited for offshore heavy lift operations or installation of wind turbine parts and/or other heavy components.

General Specifications

Main dimensions

Weight of crane (completely equipped, incl. tub & tub collar)	6,000 t
Tail swing	22 m

Hook height above main deck	91 m @ approx. 43 m radius 98 m @ approx. 26 m radius
-----------------------------	--

Auxiliary Hoist 1

Hoisting capacity and radius	800 t @ 72 m 500 t @ all radii
Hook height above main deck	130 m
Maximum hook travel	140 m

Auxiliary Hoist 2

Hoisting capacity and radius	200 t @ 90 m
Hook height above main deck	109 m

Whip Hoist

Hoisting capacity and radius	110 t @ 118 m
Hook height above main deck	135 m

Trolley Hoist Travel

Hoisting capacity	30 t
Maximum hook travel	117 m vertical

The Netherlands

Karel Doormanweg 66, 3115 JD, Schiedam
P.O. Box 687, 3100 AR Schiedam

Telephone +31 (0)10 232 0800
Telefax +31 (0)10 232 0801

www.GustoMSC.com



The trolley hoist will run along the crane boom, starting from approx. 6 m from the base of the boom (i.e. the heel point), up to approx. 3.5 m beyond the main hook.
 The trolley hoist is suitable for man-riding.

Tugger winches

Load tuggers	2 x 25 t
Main block tuggers	3 x 20 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	6,500 kW

Rules & Regulations

These cranes will be built, equipped and tested to obtain Class certificate (DNV).
 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 Oleg Strashnov, Balder, Hermod, DB101 etc. The crane boom is a lattice tubular structure made of 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.

