

# CJ62-X130-A

EXPLORATION

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This product sheet describes the basic design of a three legged cantilever type jack-up drilling unit GustoMSC CJ62 in version.

The CJ62-X130-A is intended for all year use in water depths up to 130 m in a North Sea type harsh environment.

This product sheet describes the standard unit. Modifications to suit the client's requirements can be considered.

## PLATFORM PARTICULARS

### Hull

Length hull	80.9 m
Breadth hull	87.6 m
Leg centres	62.0 m
Depth hull	10.8 m
Design draft	7.5 m

### Fixation systems

Number	18
Design	GustoMSC
Type	9500
Drive	hydraulic

### Jacking systems

Number	3 x 18 pinions
Make	BLM or equivalent
Size	420 ton per pinion effective jacking
Jacking speed	0.45 m/min
Drive	electric

### Legs

Number	3
Type	Triangular open truss X-braced
Size	16 m chord centre to centre
Overall length	185.0 m
Footing reaction	16,000 tf
Footing area	310 m <sup>2</sup>

### Storage capacities

Fuel oil	1,200 m <sup>3</sup>
Potable water	400 m <sup>3</sup>
Drill water	2,000 m <sup>3</sup>
Preload	24,000 m <sup>3</sup>
Raw water	200 m <sup>3</sup>

Liquid mud	1,000 m <sup>3</sup>
Mud treatment	40 m <sup>3</sup>
Bulk mud/cement	420 m <sup>3</sup>
Sacks	5,000
Maindeck pipe rack	600 t
Cantilever pipe rack	375 t

### Environmental conditions

For steel: design temperature	-20°C
For AC and ventilation systems:	
- max ambient temperature	+35°C
- min ambient temperature	-20°C

### Accommodation

Fully air conditioned for 100 men working in 2 shifts

### Classification, regulations

DNV/ ABS/ LRS  
Self-elevating drilling unit  
IMO MODU code, 1989 (1991)  
HSE, NPD, SNAME T&R5-5A, 1997

### Power plant

Main power	5 diesels driving 1,800 KW generators
Emergency power	1 diesel driving 1,000 KW generator

### Drilling equipment

Drilling depth	7,620 m
Mud pumps	3 x 2,000 HP
Rotary table	49.5 inch
Draw works	3 x 1,000 HP
Derrick	160 ft, 45 x 40 ft base, 2,000,000 lb hook load

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BOP's	13 <sup>5</sup> / <sub>8</sub> inch, 15,000 psi
	21 <sup>1</sup> / <sub>4</sub> inch, 2,000 psi
Diverter	30 inch, 2,000 psi
Kill and choke	
Manifold	15,000 psi
Top drive	1,000 HP

## Cantilever

Type	GustoMSC XY
Combined load	1,400 t
Longitudinal reach	22.0 m
Transverse each side	6.0 m
Pipe rack	375 t

## Deck equipment

Mooring winches	4 single drum winches
	70 t pull
	13 t holding
	1,000 m of 52 mm wire
	6 t HHP anchors
Cranes	3 diesel driven pedestal
	42.7 m boom
	50 t at 9.0 m
	15 t at 42.7 m

## Helideck

Helicopter	S61N
Dimensions	23 x 23 m

## Metric system

Weights (tons) and forces (tf) are in the metric system.

## DESIGN CONDITIONS CJ62-X130-A

### Elevated conditions

The unit is designed to withstand the external loadings in the elevated position according to the following typical combinations of conditions.

### Survival conditions

<i>typical area</i>	<i>case 1</i>	<i>case 2</i>	<i>case 3</i>
max water depth	110.0 m	120.0 m	130.0 m
air gap	30.0 m	30.0 m	24.0 m
wave height/ period	28.0 m/16.0 sec	28.5 m/ 16.0 sec	29.0 m/16.0 sec
surface current	1.25 m/sec	1.25 m sec	1.0 m/sec
wind velocity (1 min sustained)	45.0 m/sec	47.0 m/sec	49.0 m/sec
leg penetration	3.0 m	3.0 m	3.0 m
variable load	12,000 t	12,000 t	9,000 t
combined load	650 t	650 t	650 t
- at reach aft form stern	22.0 m	22.0 m	22.0 m
- at either side of CL	6.0 m	6.0 m	6.0 m
seabed sand with phi	35.0 deg	35.0 deg	35.0 deg

### Operational (drilling) conditions

<i>typical area</i>	<i>case 1</i>	<i>case 2</i>	<i>case 3</i>
max water depth	110.0 m	120.0 m	130.0 m
air gap	30.0 m	30.0 m	24.0 m
wave height/ period	25.0 m/14.0 sec	25.0 m/14.0 sec	24.0 m/14.0 sec
surface current	1.0 m/sec	1.0 m/sec	0.8 m/sec
wind velocity (1 min sustained)	36.0 m/sec	36.0 m/sec	36.0 m/sec
leg penetration	3.0 m	3.0 m	3.0 m
variable load	12,000 t	12,000 t	9,000 t
combined load	1,400 t	1,400 t	1,400 t
- at reach aft form stern	22.0 m	22.0 m	22.0 m
- at either side of CL	6.0 m	6.0 m	6.0 m
seabed sand with phi	35.0 deg	35.0 deg	35.0 deg

### Towing conditions

The unit is designed to withstand the external loadings in the towing conditions according to the following main criteria:

	<i>location move</i>
variable load	4,000 t
max roll or pitch motion each side	10 deg
full cycle period	14 sec