

CJ46-X100-D

This product sheet describes the basic design of a three legged cantilever type jack-up drilling unit GustoMSC CJ46-X100-D.

The CJ46-X100-D is intended for use in water depths up to 114.3 m (375 ft). Special features are:

- The GustoMSC X-Y large reach (70 ft) high load (1,500 kips) cantilever
- High Performance Cameron drilling equipment

Platform particulars

Hull

Length hull	65.25 m (214 ft)
Breadth hull	62.00 m (203 ft)
Leg centers	
• Transverse	46.00 m (151 ft)
• Longitudinal	40.00 m (131 ft)
Depth hull	8.00 m (26.2 ft)
Design draft	4.50 m (15 ft)

Fixation systems

Number	18
Make	GustoMSC
Type	5000
Drive	AC electric

Jacking systems

Number	3 x 18 pinions
Make	GustoMSC
Effective jacking	215 t per pinion (475 kips)
Pre-load jacking	296 t per pinion (650 kips)
Jacking speed (hull lifting)	0.45 m/min
Jacking speed (leg lifting)	0.68 m/min
Drive	AC electric, variable speed

Legs

Number	3
Type	triangular open truss X-braced
Size	10 m chord center to center
Overall length	153.8 m (505 ft)
Max leg length	154 m (505 ft)
Footing reaction	7,900 tf (17,350 kips)
Footing area	150 m ² (1,615 sqft)



Storage capacities

Fuel oil	600 m ³ (3,800 bbls)
Potable water	585 m ³ (3,700 bbls)
Drill water	3,555 m ³ (22,400 bbls)
Preload	11700 m ³ (73,600 bbls)
Raw water	145 m ³ (910 bbls)
Liquid mud	720 m ³ (4,500 bbls)
Mud treatment	25 m ³ (160 bbls)
Brine	200 m ³ (1,250 bbls)
Base oil	200 m ³ (1,250 bbls)
Bulk mud/cement	420 m ³ (14,800 cuft)
Sacks	5,000
Main deck pipe rack	500 ton (1,100 kips)
Cantilever pipe rack	360 ton (800 kips)

Design temperatures

For steel: design temperature	-10°C
For AC and ventilation systems:	
• Max ambient temperature	+45°C
• Min ambient temperature	-10°C

Accommodation

Fully air conditioned for	120 person
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Classification, regulations

ABS
Self-elevating drilling unit
MODU code 2010 Consolidated Edition
SNAME T&R 5-5A Aug 2008

Power plant

Main power 5 x 1,525 KW Cat 3516C HD
Emergency power 1 x 994 KW Cat C32

Drilling equipment

Drilling depth 9,144 m (30,000 ft)
Mud pumps 3 x 2,200 HP
Rotary table 49.5 inch, hydraulic-driven
Draw works 750 sh ton, 2300 hp continuous
Derrick 190 ft, 35 x 35 ft base
BOP's 18 3/4 inch, 15,000 psi
Diverter 49.5 inch, 500 psi
Choke and Kill
Manifold 15,000 psi
Iron rough neck Jim-10-T-P-L, 3 1/2" – 9 3/4"

Deck equipment

Mooring winches 2 single drum winches
35 t pull
65 t brake load
700 m of 38 mm wire
3.5 t HHP anchors

Cranes

2 diesel driven
pedestal
41.1 m boom
50 t at 9.2 m
10 t at 41.1 m

Helideck

Helicopter S61N and S92
Dimensions 22.2 x 22.2 m

Cantilever

Type GustoMSC X-Y

Reach:

- Longitudinal 21.33 m (70 ft)
- Transverse 6.1 m (20 ft)

Combined load:

- 680 t (1,500 kips) over full envelope of 70 by 40 ft
- 1,135 t maximum combination load during operation condition and 300 t for survival condition
- Variable load of 3500MT during operating condition.

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