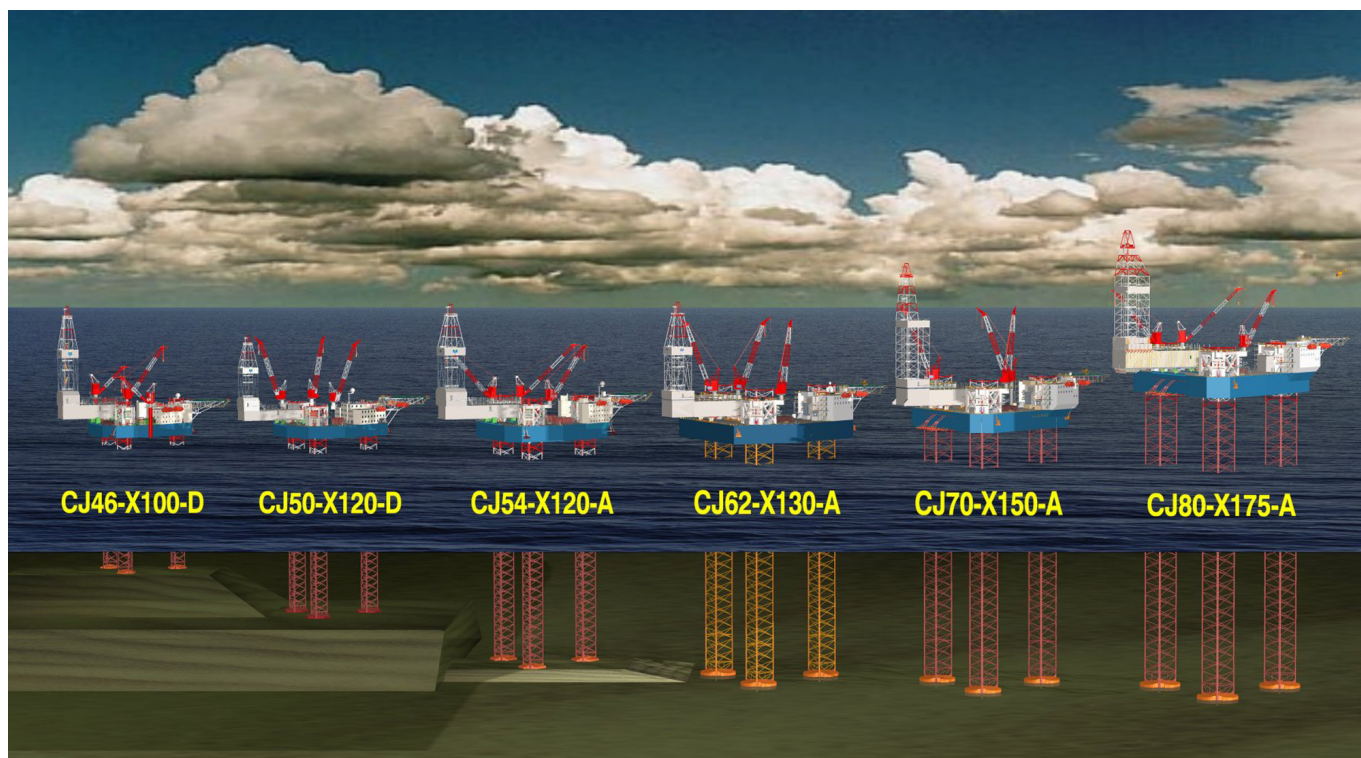


CJ series of jack-up drilling units



The CJ series of cantilever jack-ups are designed to be highly efficient drilling units. The patented GustoMSC X-Y cantilever and drill floor structure move as one fixed package giving exceptional outboard reaches at full drilling load over the full drilling envelope.

The CJ series is designed for year round operation in a typical North Sea harsh environment. For milder areas of the world, versions with increased leg length are available. The CJ series ranges from the CJ46 as the modern workhorse for up to 350 ft water depth to the CJ70 as the deep water unit for up to 450 ft North Sea conditions.

X-Y cantilever

The X-Y cantilever system combines the cantilever- and drill floor structures into one fixed package which can move both longitudinally and transversely relative to the hull of the jack-up.

The main advantages of this system are:

- large longitudinal and transverse reaches
- high drilling load capacity over full drilling envelope
- no flexibles between cantilever and drill floor
- simplified BOP handling
- minimum deck obstruction
- elevated position of cantilever minimizes the required air gap of the hull, when drilling over a platform
- additional free deck space below cantilever

Accommodation

The accommodation is arranged within a 'wrap-around' deckhouse at the forward leg of the jack-up. The helicopter deck is positioned at the forward end of this deckhouse. This arrangement provides for a large free deck area to the rear of the forward leg which is available for the installation of temporary drilling equipment or for modules when the jack-up operates in the production mode. The deckhouse can provide permanent accommodation. Double cabins, single cabins and a hospital are arranged within the portside wing.

The general facilities, such as galley, mess room, recreation rooms and offices, etc, are arranged in the starboard wing.

The central control room and the radio room are arranged at the top level at starboard.

GustoMSC jacking system

The jacking system can be of a floating or fixed type. The pinion assembly is powered by VSD drivers, allowing smooth operations. Load sharing between the individual pinions is through their electric drives.

GustoMSC rack fixation system

The patented GustoMSC fixation system provides a clearance free, rigid connection between the leg and platform during operation and transport. This enhances the water depth capability as well as the fatigue life of the jack-up.

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GustoMSC

Low drag legs

The leg design of the CJ units is aiming at high stiffness and low drag. Both features help to minimize the static and dynamic deflections in current and waves, and provide for the high water depth capability of the CJ series. They are achieved by relatively wide legs, faired chord shape and the use of high strength materials. Ultimate care is given to node design, to obtain adequate fatigue life.

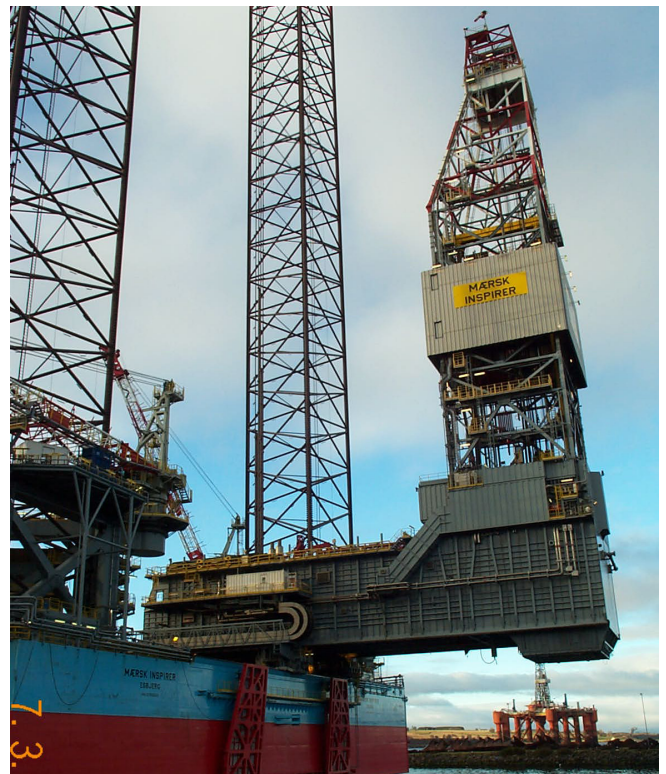
Spud cans

The CJ70 is provided with skirt-type spud cans. These spud cans are specifically intended for use in the sand- and clay type soils that are present in most areas of the North Sea. They provide for a large amount of fixity at the seabed, thus increasing the capabilities of the jack-up in the harsh North Sea environment.

In the building cycle from the last 3 years, the CJ46, CJ50 and CJ70 have been selected by several drilling contractors. GustoMSC provided full concept and basic design and supplied jacking systems, leg fixation systems and XY cantilever skidding systems.

Some characteristics of the units are in the below table.

Description	CJ70-X150A	CJ50-X100MC	CJ46-X100D
Built/ under construction	3 + 3	6	9 + 3
Deck size (m)	89 * 97.2	68 * 70	62 * 65
Leg length (m)	205	146.3	147.4
Water depth (m)	150 North Sea	106	106
Elevated weight (mt)	30,000	17,000	12,400
Variable load (mt)	10,000	4,500	3,500
Combined load (mt)	1,400	680	680
XY-cantilever reach (m)	30.5 * 20	24.3 * 14	21.3 * 13.4
Derrick (kips)	2,000	1,500	1,500
Mud capacity (bbls)	10,000	6,300	4,650
Mud pumps (hp)	3 * 2,200	3 * 2,200	3 * 2,200
Power generation (kW)	10,400	10,000	8,000



Units in operation:

- Noble Ronald Hoop
- Noble Piet van Ede
- Noble Lynda Bossler
- West Larissa
- Tam Dao
- Maersk Gallant
- West Epsilon
- Maersk Innovator
- Maersk Inspirer
- Maersk Resilient
- Maersk Resolve
- Maersk Resolute
- Maersk Reacher
- Naga 2 & Naga 3
- Perro Negro 6 & Perro Negro 8
- COSL 936 & COSL 937
- West Elara

Under construction:

- Hull L207
- West Linus
- Maersk TBN 1 & 2
- TBN 1 & 2

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