Maersk Intrepid

Gusto MSC CJ70-X150MD
Harsh Environment Jack-up
– 150 m Water Depth
Optimized Drilling Efficiency
Subsea Capabilities
Maersk Intrepid

**TYPE**
Gusto MSC CJ70-X150MD, Ultra harsh environment jack-up drilling rig

**BUILT**
Keppel FELS, Singapore, 2014/2015

**CLASS**
DNV

On the XL Enhanced jack-ups, uptime and drilling efficiency are maximised through dual pipe handling. While one string is working in the well bore, a second string of e.g. casing, drill pipe or bottom hole assembly can be assembled/disassembled and stored in the set-back area, ready for subsequent transfer for use in the well bore thus reducing the non-productive time.

The drill floor features Multi Machine Control – a fully remote operated pipe handling system allowing all standard operations such as stand building and tripping to be conducted without personnel on the drill floor, thus ensuring a high level of consistency across crews and an improved efficiency.

With a leg length of 206.8 m (678 ft), the rigs are designed for year-round operation in the North Sea, in water depths up to 150 m (492 ft).

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**Main advantages**

- **150 m (492 ft) water depth capability year-round in the North Sea**
- **Cantilever reach from stern to well centre 33.5 m (110 ft) and from centre line to each side more than 11 m (36.1 ft.)**
- **Combined cantilever load up to 1,400 t**
- **Dual pipe handling system with off line stand building of drill pipe, casing or bottom hole assembly while one string is working at well centre**
- **2,500 m² deck space**
- **Up to 13,000 t variable load**
- **Semi automatic tubular handling system**
- **Drillers cabin with 3 ea NOV cyber chairs**
- **Fully equipped for HP/HT**
- **18 ¾” 15,000 psi BOP system**
- **Drilling and work over through surface BOP, prepared for upgrade to subsea BOP**
- **Enhanced facilities for handling of subsea equipment**
- **Automated solids control system with 5 triple deck shakers in separate rooms**
- **Automated and dust free mud mixing system**
- **Green rig philosophy to minimize CO₂ and NOx emissions**
- **Superior working and living conditions for the crew with 150 single bed cabins.**
- **2 ea 15 t cargo lifts from main deck to lower and tween deck and one 8.5 t forklift to minimise crane lift**
- **3 ea deck cranes 100/20 t**
- **Improved handling facilities on cantilever pipe deck and rig floor for more efficient changeover of equipment**
# Main particulars

## DIMENSIONS

<table>
<thead>
<tr>
<th></th>
<th>IMPERIAL</th>
<th>METRIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length overall</td>
<td>291 ft</td>
<td>90.5 m</td>
</tr>
<tr>
<td>Width overall</td>
<td>336 ft</td>
<td>105.4 m</td>
</tr>
<tr>
<td>Hull depth</td>
<td>39.4 ft</td>
<td>11.5 m</td>
</tr>
<tr>
<td>Length of legs</td>
<td>678 ft</td>
<td>206.7 m</td>
</tr>
<tr>
<td>Cantilever – max. reach: aft of stern</td>
<td>110 ft</td>
<td>33.5 m</td>
</tr>
<tr>
<td></td>
<td>42 ft / 35.6 ft</td>
<td>11 m / 11.5 m</td>
</tr>
<tr>
<td>Equivalent spudcan diameter</td>
<td>72.2 ft</td>
<td>22 m</td>
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## PARTICULARS

<table>
<thead>
<tr>
<th></th>
<th>IMPERIAL</th>
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<tbody>
<tr>
<td>Rated drilling depth</td>
<td>40,000 ft</td>
<td>12,000 m</td>
</tr>
<tr>
<td>Hook load static w/top drive</td>
<td>2,100,000 lbs</td>
<td>950 t</td>
</tr>
<tr>
<td>Rotary load</td>
<td>2,000,000 lbs</td>
<td>907 t</td>
</tr>
<tr>
<td>Setback load</td>
<td>2,280,000 lbs</td>
<td>1,035 t</td>
</tr>
<tr>
<td>Variable load</td>
<td>28,600,000 lbs</td>
<td>13,000 t</td>
</tr>
<tr>
<td>Derrick</td>
<td>210 ft x 49 ft x 52 ft</td>
<td>64 m x 15 m x 16 m</td>
</tr>
<tr>
<td>Jacking speed</td>
<td>1.6 ft/min</td>
<td>0.45 m/min</td>
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## WEATHER/DESIGN CRITERIA

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<thead>
<tr>
<th></th>
<th>IMPERIAL</th>
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<tbody>
<tr>
<td>Water depth</td>
<td>482 ft</td>
<td>150 m</td>
</tr>
<tr>
<td>Wind speed</td>
<td>95 knots</td>
<td>49 m/sec</td>
</tr>
<tr>
<td>Penetration</td>
<td>9.8 ft</td>
<td>3 m</td>
</tr>
<tr>
<td>Wave height</td>
<td>95 ft</td>
<td>29 m</td>
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<tr>
<td>Current (surface)</td>
<td>2 knots</td>
<td>1 m/sec</td>
</tr>
<tr>
<td>Air gap</td>
<td>170 ft</td>
<td>52 m</td>
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## CAPACITIES

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<tr>
<th></th>
<th>IMPERIAL</th>
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<tbody>
<tr>
<td>Drill water</td>
<td>20,756 bbl</td>
<td>3,300 m³</td>
</tr>
<tr>
<td>Potable water</td>
<td>2,516 bbl</td>
<td>400 m³</td>
</tr>
<tr>
<td>Fuel oil</td>
<td>10,693 bbl</td>
<td>1,700 m³</td>
</tr>
<tr>
<td>Brine</td>
<td>5,032 bbl</td>
<td>800 m³</td>
</tr>
<tr>
<td>Nontoxic oil</td>
<td>3,145 bbl</td>
<td>500 m³</td>
</tr>
<tr>
<td>Liquid mud</td>
<td>9,812 bbl</td>
<td>1,560 m³</td>
</tr>
<tr>
<td>Bulk mud</td>
<td>8,899 ft³</td>
<td>252 m³</td>
</tr>
<tr>
<td>Bulk cement</td>
<td>6,674 ft³</td>
<td>189 m³</td>
</tr>
<tr>
<td>Slurrification tank</td>
<td>2,201 bbl</td>
<td>350 m³</td>
</tr>
<tr>
<td>Accommodation</td>
<td>150 people</td>
<td>150 people</td>
</tr>
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*Maersk Drilling Intrepid*
Key features

**DRAWWORKS**
NOV SSGD, 5750 HP with five AC motors.

**TRAVELLING EQUIPMENT**
NOV traveling block with six 72" sheaves, Grooved for 2". Capacity 1,100 t.

**TOP DRIVE**
NOV HPS-03 with pipe handler and retract system, 950 t lifting capacity. Powered by two air cooled AC motors. Max continuous torque 90,800 ft/lbs at 130 rpm and max intermediate torque 125,000 ft/lbs.

**DERRICK CAPACITY**
The derrick allows for drill pipe to be racked in quads or range 3 in triples – and casing in stands of triples.

**PIPE HANDLING SYSTEM**
Dual NOV HR-IV pipe rackers with automatic fingerboards. Dual NOV ARN200 iron roughnecks. NOV CWS-P20-50-HS Cat walk shuttle. NOV gantry type pipe handling machine. Semi automatic operation (NOV MMC) for off line stand building and tripping. NOV anti collision system and Interlock management system.

**ROTARY TABLE**
NOV VBJ RST 49 ½" Hydraulic Operated Rotary Support Table. Torque 45,000 ft/lb at 5 rpm.

**MUD PUMPS**
Four NOV 14-P-220, 9" bore x 14" stroke, single acting triplex mud pump. Rated for 7,500 psi.

**CEMENTING EQUIPMENT**
Schlumberger 2 x cps 763, 15,000 psi / Halliburton 2 x HT 400 pumps, 15,000 psi. Both units are arranged for remote controlled cementing operations.

**WELL CONTROL EQUIPMENT**
NOV 18 ¼" – 15,000 psi consisting of one annular & two double ram preventers. H4 connector. 500 psi Diverter. The BOP is prepared for utilization in subsea mode.

**MUD RETURN SYSTEM**
Five NOV VSM Multi-Sizer Shale Shakers including fully automatic shaker control system. Two each MI Swaco CD-1400 degassers. NOV cuttings conveyors and free flow air conveyors for cuttings transfer. NOV slurrification skid with a capacity of 10 m³/h of cuttings.

**MUD MIXING SYSTEM**
NOV Mud mixing skid. One each Procut sack cutter incl. lifting table with a capacity of up to 360 sacks/hour. Two each surge tanks incl. cell feeders with a capacity of 3.5 m³/h. One each liquid additive skid with a capacity of 3 m³/h. One each big bag unit. Large sack store with large storage capacities of sacks. Mud pits designed to improve cleaning.

**DRIVE PIPE SUPPORT DECK**
Hinged deck, which can be hydraulically skidded from side to side. The deck can support loads up to 150 t. Size of deck is 6.7 m x 11 m. Prepared for handling and deploying sub sea equipment.

**TENSIONER SYSTEM**
Conductor tensioning system consisting of four 100 t hydraulic cylinders vertical and four 25 t hydraulic cylinders horizontal.

**DRILLING INSTRUMENTATION**
NOV SDI system.

**POWER SUPPLY**
Four each 2,846 kW diesel engines Wärtsila 9L26.

**DECK CRANES**
NOV OC3500LCE lattice boom cranes. 52.2 m hoisting radius. 20 t capacity whip hoist and a 100 t capacity main hoist. Max 60 t capacity to boat.

**HELICOPTER DECK**
Suitable for EH101 helicopter with a max. weight of 15.4 t.

**SAFETY EQUIPMENT**
Life saving and fire fighting equipment as per rules and regulations. Enhanced safety systems consisting of fixed fire fighting system installed in accommodation, machinery spaces and switchboard rooms for rapid activation in case of a fire.

**ACCOMMODATION**
Accommodation is located in two blocks shaped as a "V", wrapped around the forward leg. Port block is a quiet area with cabins – starboard block holds all offices, recreation rooms and service facilities. 150 people in single bed cabins.
Main layouts
QUARTERS

SIDE VIEW

Max height from bottom of legs to bottom of conﬁdence 591.7m
Log length 588.8m
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