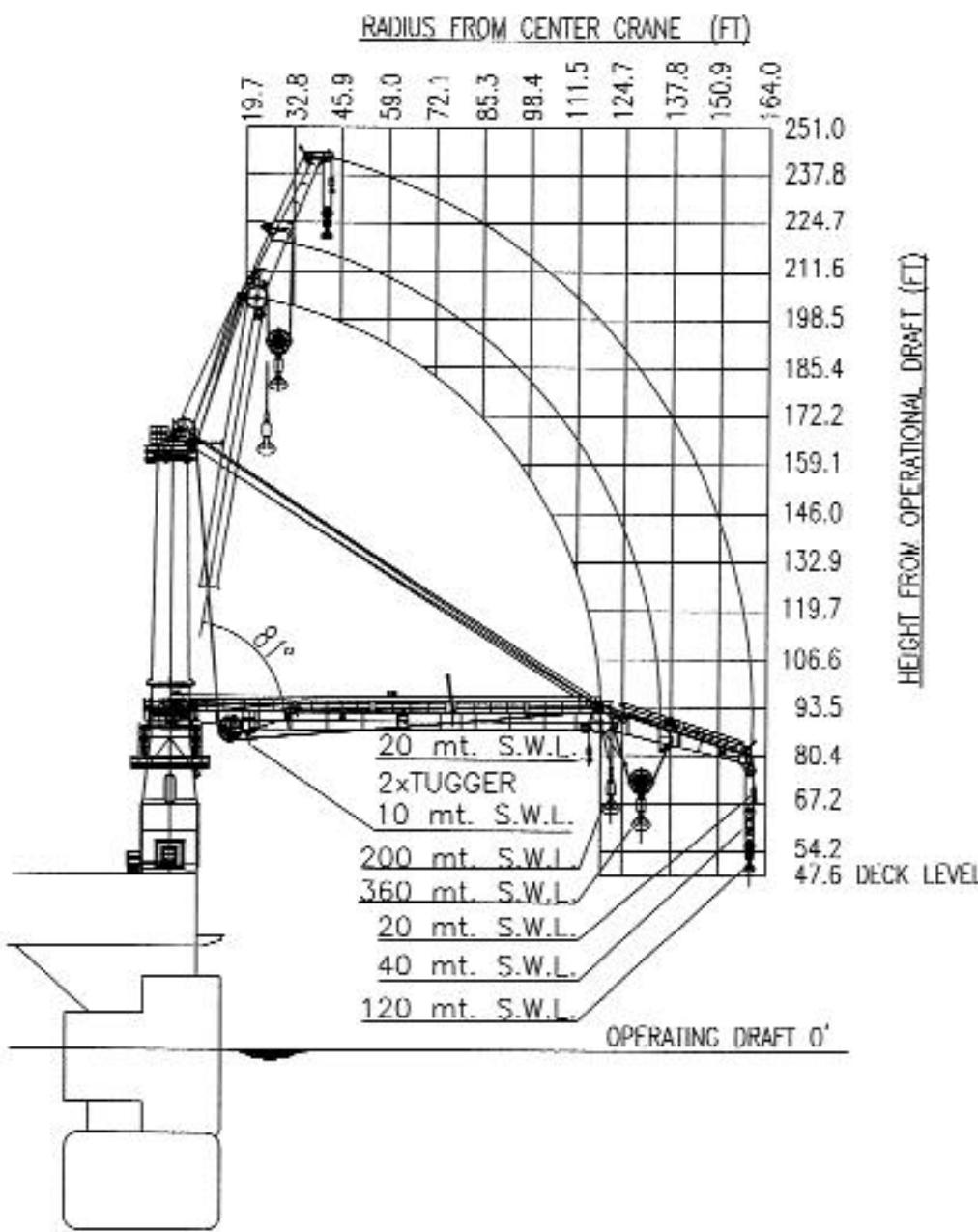


# The Q4000



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[www.HelixESG.com](http://www.HelixESG.com)



**WELL INTERVENTION**  
The vessel is equipped to perform a full range of through-tubing intervention, remediation or abandonment.

**HEAVY LIFT**  
The Q4000 provides a stable platform, combined with a 360 MT crane and dynamic derrick lift capacity of 600 MT.

**CONDUCTOR AND SURFACE CASING**  
The vessel can efficiently drill, cement and install wellheads prior to intermediate drilling operations.

**RIGID JUMPER SPOOLS**  
The vessel's large deck space and facilities allow for large jumpers to be installed.

**SUCTION PILES**  
Suction piles and other anchoring devices can be installed in depths up to 10,000 feet.

**PIPELAY**  
The vessel can be rapidly configured for the deepwater installation of all types of reeled products.

**CORING**  
The vessel has full drilling (riserless) and pipe handling capability.

**GENERAL CONSTRUCTION**  
The vessel can fulfill various construction tasks with the 150Hp built-in heavy work class ROV and a mobile saturation system for diving operations to 1,000 feet can be provided as required.



**FLAG** ..... U.S.A.  
**YEAR BUILT** ..... 2002

**CLASSIFICATION**  
ABS, Class + A1 Column Stabilized  
Unit, AMS, ACCU, DPS-3

**ACCOMMODATIONS**  
Accommodates ..... 133 People  
Marine Crew ..... 71 People  
Charter/Client ..... 62 People

**PRINCIPAL DIMENSIONS**  
Main Deck Area ..... 4,785.7 m<sup>2</sup>  
..... (51,512.3 ft<sup>2</sup>)  
Beam ..... 52.3 m (171 ft)  
Depth to Weather Deck ..... 29.5 m (97 ft)

**PONTOON DIMENSIONS**  
Number ..... 2  
Length ..... 95.1 m (312 ft)  
Breadth ..... 13 m (42.7 ft)  
Depth ..... 8.1 m (26.6 ft)

**DECK LOAD**  
Variable Deck Load ..... 4,409.2 tons  
..... (4,000 MT)  
Average Deck Load Capacity .....  
..... 3 MT per m<sup>2</sup> (3.3 tons per ft<sup>2</sup>)

**DISPLACEMENT** (fresh water)  
Transit Draft ..... 15,046 MT (at 7.6 m)  
..... [16,585.4 tons (at 24.9 ft)]  
Survival Draft ..... 20,673 MT (at 13.1 m)  
..... [22,788.1 tons (at 43 ft)]  
Operational Draft 22,201 MT (at 15.1 m)  
..... [24,472.4 tons (at 49.5 ft)]  
Total Lightship Weight (est.) .....  
..... 13,062.4 tons (11,850 MT)

**THRUSTERS**  
• Installed Power - 6 generator sets at  
3,520 kW each  
• Azimuthing Thrusters - 4 aft 2,900  
kW x 900 RPM each, 2 fwd.  
retractable 2,900 kW x 900 RPM ea.

**SPEED**  
• Transit - 13.5 knots (at 24.9 ft / 7.6 m  
surface draft)  
• Operational - 7.5 knots (at 49.5 ft /  
15.1 m submerged draft)

**MAIN CRANE**  
• Electric driven, 360° revolving  
designed and manufactured by  
Huisman-Itrec (Port side, aft)  
• Submersible block lifting capacity  
396.8 tons (360 MT) at 59.1 ft (18 m  
radius:  
Boom Length ..... 36.5 m (119.8 ft)

• 242.5 tons (220 MT) rated traction  
winch in crane base, acts as the  
main hoist wire with 12,500 ft  
(3,810 m) of 3.6 in. (92 mm) diameter  
non-rotating wire rope  
• Traction winch take-up winch  
in port side pontoon:

Main Hook Min. Radius 8.7 m (28.5 ft)  
Main Hook Max. Radius 39 m (128 ft)

**Main Hook Travel:**  
Single Part ..... 200 MT (at 3,000 m)  
..... [220.5 tons (at 9,842.5 ft)]  
Two Part ..... 360 MT (at 1,500 m)  
..... [396.83 tons (at 4,921.3 ft)]

**MAIN CRANE WHIP LINE**  
Submersible block lifting capacity  
176.4 tons (160 MT) at 28.2 ft (8.6 m)  
radius:  
Min. Radius ..... 13.1 m (43 ft)  
Max. Radius ..... 49 m (160.8 ft)

**Hook Travel:**  
Single Part ..... 20 MT (at 500 m)  
..... [22.1 tons (at 1,640.4 ft)]  
Two Part ..... 40 MT (at 250 m)  
..... [44.1 tons (at 820.2 ft)]  
Four Part ..... 120 MT (at 125 m)  
..... [132.3 tons (at 410.1 ft)]

**SECONDARY CRANE**  
• Electric driven, 360° revolving,  
designed and manufactured by  
Huisman-Itrec (Port side, forward)  
• Submersible block lifting capacity  
160 MT (176.4 tons) at 14.5 m  
(47.6 ft) radius  
• Submersible block to 304.8 msw  
(1,000 fsw)

Min. Radius ..... 5.3 m (17.4 ft)  
Max. Radius ..... 34 m (111.6 ft)

**Hook Travel:**  
Single Part ..... 20 MT (at 500 m)  
..... [22.1 tons (at 1,640.4 ft)]  
Two Part ..... 100 MT (at 150 m)  
..... [110.23 tons (at 492.1 ft)]  
Four Part ..... 160 MT (at 100 m)  
..... [176.4 tons (at 328.1 ft)]

**MOONPOOL DIMENSIONS**  
Weather Deck ..... 39 ft x 22 ft (819 ft<sup>2</sup>)  
..... [11.9 m x 6.4 m (76.1 m<sup>2</sup>)]

**MOONPOOL DOOR** (sliding)  
Static Working Load 600 MT (661.4 tons)  
Skidding Working Load ..... 600 MT  
..... (661.4 tons)  
False Rotary ..... 1.3 m (49.2 in.)  
'U' Slot to False Rotary 0.6 m (21.7 in.)  
Under Door Guide Wire Sheaves ..... 4

**DYNAMIC POSITIONING (DP) SYSTEM**  
The DP system is an ALSTOM DPS 902  
+ 901 back-up, triple voting dynamic  
positioning system. The system com-  
prises two identical systems (DP-A&B)  
located in the primary location,  
together with a slave console (slave  
DPC) and a third system (master DPC)  
located separately in a back-up room.

**MULTI PURPOSE TOWER (MPT)**  
Hook Load ..... 600 MT (661.4 tons)  
Free Lifting Height ..... 44 m (144.4 ft)  
**Active & Passive Compensated**

**WELL OPERATIONS SYSTEMS**  
• Hydraulift Topdrive, iron rough neck  
and pipe handling systems; 20 MT  
(22.1 tons) Knuckleboom crane for  
pipe handling  
• Well service pumps - 2 Schlumberger  
MD 1000 high pressure pump and  
charge system  
• Intervention riser system 7 3/8" through  
bore system or others as per client.

**HELICOPTER LANDING DECK**  
Starboard bow, rated up to Sikorsky  
S-61N

**ROV SYSTEM**  
150 HP cursor deployed unit for oper-  
ations in heavy weather (3,000 m /  
9,842.5 ft rated)

**MAIN DIESEL GENERATOR SETS**  
• The main generating plant consists  
of 6 diesel engine sets rated at 3,520  
kW each.  
• The diesel engines are capable of  
operating at an ambient air  
temperature of 45° centigrade  
(max.), seawater temperature of 30°  
centigrade and an average air  
temperature of 90% with  
atmospheric pressure of 760 mm  
mercury.  
• One port and one starboard engine  
comply with requirements for  
emergency generation.

**BALLAST SYSTEM**  
• Pumps - 8  
• Location - Pump rooms in port and  
starboard pontoons  
• Capacity - 1,100 GPM at 50 psi ea.

**POTABLE WATER SYSTEM**  
2 Pumps @ 220 GPM at 72 psi each  
• Water Makers - 2 @ 3,300 gal. each  
per day  
• Water Heaters - 3 @ 120 gal. each  
per day  
• Hot Water Circulating Pumps - 2  
Pumps @ 15 GPM at 14.5 psi

**INDUSTRIAL WATER SYSTEM PUMPS**  
2 centrifugal type at 220 GPM at 72 psi  
each

**TANK CAPACITIES**  
Salt Water Ballast ..... 45,462.8 BBLS  
..... (7,228 m<sup>3</sup>)  
Fuel Oil ..... 13,663.4 BBLS (2,172.3 m<sup>3</sup>)  
Industrial Water 2,760 BBLS (438.8 m<sup>3</sup>)  
Potable Water ..... 2,760 BBLS (438.8 m<sup>3</sup>)  
Brine ..... 12,484 BBLS (1,984.8 m<sup>3</sup>)

**SERVICE AIR COMPRESSOR SYSTEM**  
• Compressors - 2  
• Location - Aft port/starboard upper  
column  
• Type - Enclosed rotary screw  
• Capacity - 795 cfm each  
• Full Load Pressure - 150 psi ea.

**SERVICE AIR RECEIVER**  
• Units - 3  
• Capacity - 106 cubic feet each  
• Max. Working Pressure - 150 psi ea.

**LIFE SAVING EQUIPMENT**  
• Life Boats - 4 x 70 Person, totally  
enclosed motor propelled safety  
crafts (TEMPSC)  
• Life Rafts - 8 x 25 Person, self-  
inflatable rafts  
• Life Jackets - 175, stowed in cabins,  
1 per bunk, remainder stowed in  
muster stations.