

McDERMOTT | VESSELS

# DERRICK BARGE 16

*Dynamically positioned with shallow and deepwater flexibility for structural installation or pipelay*



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# DERRICK BARGE 16

Official Flag: USA  
Built/Year: USA - 1967 / Upgraded 1996 & 1999  
Class: ABS + USCG, DP 2

## HULL

Dimensions:  
LOA: 122 m  
Beam: 30.5 m  
Depth: 8.7 m  
Operating Draft: 4.3 m minimum / 5.67 m maximum

## TOWING

Anchor: 1 to meet regulatory body approval  
Anchor System: 8 @ 9,071.8 kg anchor; 1,097.3 m of 2 in wire

## COMMUNICATION & NAVIGATION

Communication: email / fax / phone / VSAT  
Radio: VHF, GMDSS, SSB  
Radar: 1  
Gyro Compass: 2  
Echo Sounder: 1

## ACCOMMODATION

Berths (air conditioned & heated): 184  
Medical: clinic with four beds  
Other Facilities: galley, mess room, laundry, movie room, conference room, exercise room, internet café, customer offices

## POWER

Distribution: 600 V, 480 V, 110 V, 60 Hz  
Main Generator: 4 @ 2,000 kW  
Emergency Generator: 1 @ 65 kW  
Aux Generator: power module 2 @ 600 kW  
Propulsion Thruster: 4 @ 2,000 hp, 360 degrees azimuth, retractable, fixed pitch variable speed  
Speed: 6.5 kts

## SAFETY

Life Raft: 22 @ 25-person  
Rescue Boat: 1  
MOB: 18  
Safety System: meet flag and regulatory body requirements

## DYNAMIC POSITIONING

DP Class: Kongsberg SDP22, Dual Dynamic Positioning System  
DP Reference System: 4 @ DGPS, 2 @ Bandak Tautwire, 1 @ Sonadyne Fusion USBL acoustic system, 1 @ MDL Fanbeam

## CRANES

Crane: American Model 509  
Boom Length Main: 70.4 m  
Boom Length Aux: 79.6 m  
Boom Length Whip: 84.1 m  
Main Hook Capacity Fixed: 780.2 MT  
Main Hook Cap Revolving: 544.3 MT  
Aux Capacity: 158.8 MT  
Aux Whip: 47.2 MT  
Deck Crane: 1 AH&D 203 gantry crane, 33.5 m boom

## PIPELAY EQUIPMENT

Min OD: 4 in  
Max OD: 48 in  
Tension Machine: 3 @ 45.36 MT  
Tension Capacity: 136 MT  
A & R Hoist: 136 MT  
Wire Rope: 1,219.2 m @ 3 in  
Ramp Station: welding (5) for single joint; x-ray (1); field joint (2)  
Max Water Depth: 914 m  
Min Water Depth: 4.6 m  
AWE: provided as required

## EQUIPMENT

Air Compressor: 2 @ 12.6 m<sup>3</sup>/min electric, 8.6 bar; 2 @ 45.3 m<sup>3</sup>/min diesel, 8.6 bar  
Jet Pump: 1 @ 5,300 L/min, 10.3 bar  
Welding Machine: manual and automatic  
Anti Pollution: oil spill response kit  
Water Maker: 2  
Helideck: 16.8 m x 16.8 m  
Construction Equipment: The DB16 spread is outfitted with assisting tugs, material barges, survey equipment, diving systems, x-ray, NDT, and hammer equipment as required on a project-specific basis.

## TANKS

Fuel: 1,514,165 L  
Ballast Water: 8,611,812 L  
Potable Water: 439,108 L  
Fresh Water: 2,271,247 L  
Lube Oil: 8,328 L