



**DSJ300**



**DSJ300**

**DSJ300 – SELF ELEVATING, CANTILEVER TYPE, PREMIUM JACKUP DRILLING UNIT KEY FEATURES:**

- Operating water depth capability of 300 ft in moderate ocean environments.
- 105 persons comfortable accommodation in wrap around quarters.
- State-of-the-art drilling equipment with 1500 kips hook load capacity capable of drilling depth 30000 ft.
- Large variable load capacities and usable deck area for broader operating capabilities.
- Faster operations with horizontal / vertical pipe handling systems and offline triple stand building.
- Extended cantilever reach of 50 ft with max. combined drilling load of 1698 kips.
- Enhanced design with focus on operating flexibility, safety, reliability and minimum environmental impact.

**CLASSIFICATION & CONDITIONS**

Class Notation	CCS  Self-Elevating Drilling Unit ABS  A1 Self-Elevating Drilling Unit
Min. Service Temperature	-10 deg. C

**HULL & DIMENSIONS**

	Metric	Imperial
Hull Shape	Modified Triangular	
Hull Length	62.8 m	206 ft
Hull Breadth	60.2 m	197.5 ft
Hull Depth	8.0 m	26.2 ft
Leg Spacing (C to C)-Transverse	43.4 m	142.4 ft
Leg Spacing (C to C)-Longitudinal	39.8 m	130.6 ft

**LEGS & SPUDCAN**

	Metric	Imperial
Nos. & Leg Type	Three (3) x Triangular Truss	
Length of the Leg (Incl. Spudcan)	125.3 m	411 ft
Length of Leg Below Hull	105.8 m	347 ft
Chord to Chord Spacing	10 m	32.8 ft
Type of Spudcans	Fixed circular, free flooding type	
Diameter of Spudcan	15.2 m	50 ft
Height of Spudcan	4.572 m	15 ft
Bearing Area	157 sq.m	1690 sq. ft
Max. Footing Reaction per Leg (Approx.)	6750 MT	14868 kips
Max. Bearing Pressure (Approx.)	45.6 MT/sq. m	66 psi

**JACKING & FIXATION SYSTEM**

Type of Jacking System	Electric Rack & Pinion – Fixed Type	
Total No. of Pinions	54 Pinions	
Normal Jacking Capacity (per pinion)	200 MT	440.6 kips
Preload Jacking Capacity (per pinion)	258 MT	568.38 kips
Static Holding Capacity (per pinion)	454 MT	1000.2 kips
Lifting Speed	0.45 m/min	1.5 ft/min
Fixation System	Hyd. or Ele. Driven Rack Chocks	
Total No. of Rack Chocks	9 Pairs	
Static Holding Capacity (per Chord)	5000 MT	11023 kips

**TANK CAPACITIES**

Diesel Fuel Storage	727 cu. m	4572 bbl
Potable Water	506 cu. m	3182 bbl
Preload / Ballast Water	10140 cu. m	63773 bbl
Drill Water	1300 cu. m	8176 bbl
Mud Pits (Active & Reserve)	660 cu. m	4151 bbl
Mud Treatment Pits	37 cu. m	233 bbl
Base oil	130 cu. m	818 bbl
Brine	130 cu. m	818 bbl
Bulk Mud & Cement	520 cu. m	3271 cu. ft
Sack Storage	5000 sacks	
Pipe Racks (Main Deck & Cantilever)	655 sq. m	7045 sq. ft

**DRILLING LOADS & EQUIPMENT**

Max. Hook Load	680 MT	1500 kips
Max. Rotary Load	680 MT	1500 kips
Max. Setback Load	340 MT	749 kips
Draw Works	3356 kW	3000~4500 HP
Rotary Table		49.5 inch
Mud Pumps	3 x 2200 hp @ 7500 psi	
Vertical Pipe Handling	Pipe Racker System	
Horizontal Pipe Handling	Catwalk Shuttle & Knuckle Boom Crane	
Conductor Tensioning System	400 MT @ 7.6 m	882 kips @ 25 ft

**ENVIRONMENTAL LIMITS - SURVIVAL**

	Survival	
Water Depth	91.44 m	300 ft
Max. Wave Height	15.24 m	50 ft
Associated Wave Period	13.5 s	13.5 s
Wind Velocity (1 min. mean)	51.4 m/s	100 kts
Air Gap	11.28 m	37 ft
Penetration	3.05 m	10 ft
Variable Load	2750 MT	6057 kips

**ENVIRONMENTAL LIMITS - OPERATING**

	Operating	
Water Depth	91.44 m	300 ft
Max. Wave Height	10.67 m	35 ft
Associated Wave Period	13.5 s	13.5 s
Wind Velocity	36 m/s	70 kts
Air Gap	11.28 m	37 ft
Penetration	3.05 m	10 ft
Variable Load	4080 MT	8995 kips

**CANTILEVER & DRILLFLOOR**

	Metric	Imperial
Cantilever Reach Aft	15.24 m	50 ft
Drill Floor Reach Transverse	+/- 4.57 m	+/- 15 ft
Cantilever Skidding System	2 sets of Hyd. Skidding Assembly	
	d. Lift & Roll Assembly	
	4 m	64.4 x 64.4 ft
	1.8 m	40 x 40 x 170 ft



**MUD CONDITIONING**

	Metric	Imperial
Shaker System	Five (5) Cascading Shakers	
Degassers	One (1) Desilter/Desander Two (2) Vacuum Degasser	

**WELL CONTROL EQUIPMENT**

BOP Stack	18 3/4" x15000 psi	
BOP Handling Crane	120 MT	132.3 s/tons
Fixed Diverter	27-1/2" ID bore, 500 psi, 49-1/2" Rotary table	

**HELIDECK**

Helicopter Types	Sikorsky S-61N & S-92	
Size	22.2 m	72.8 ft

**DECK EQUIPMENT**

Main Crane	Three (3) x Fixed Lattice Boom 50 MT@12 m 82.5 s/tons @ 39.37 ft 36.6 m 120 ft Boom	
Mooring Winches	Four (4) x Single Drum	

**POWER SYSTEMS**

Main Diesel Engine Gensets	Five(5) x 1530 ekW 1910 kVA, 690 V, 60 Hz	
Emergency Diesel Engine Genset	One (1) x 900 ekW 1125 kVA, 480 V, 60 Hz	

DSJ300