

3.4 HXJ158 Offshore Workover Rig

HXJ158 is a kind of offshore workover rig designed for pre-production platform of CPOE and installed on the main deck of platform, moved to wellhead along cantilever beam of platform before operation, available in the complex working condition during offshore operation.

Technical Features

Adopt block substructure and no guy line erection derrick, it features big carrying capacity, good overall stability. Single shaft drawworks, independent drive rotary table. AC variable-frequency drive used in drawworks, rotary table and pump.

Disc brake used in main brake, dynamic braking in assistant brake, high reliability.

Imported intelligent valve block system used in air control system, electric control used in integral instrument system, disk brake, hydraulic cathead, air control system to complete air, electric, liquid integration and system, state monitoring, automatic trouble diagnose and control.

Wind stopping installed around drilling platform, waterproof shed set on the power system. drilling platform skid base, DCR, BOP shift skidding, hydraulic BOP skidding system equipped on the drilling platform, rotary table, jerk swivel, traveling block hook, winch equipped in the rotary and traveling system, wellhead tools included power liquid gas tong, elevator link, lift ring, hydraulic cathead. All operations by driller can be completed in the cabin for better working conditions and less working strength



Technical Parameter

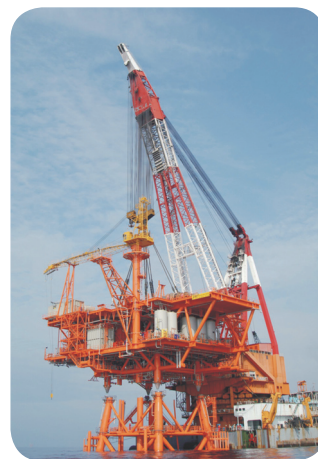
Max hook load, kN	1580	Mast available height, m	33.3 (derrick)
Workover depth, m	5500 (3 1/2 " drill pipe)	Traveling system structure	5 × 6
Standpipe capacity, m	3000 (4 1/2 " drill pipe)	drive mode	AC-DC-AC
Motor power, kW	600	rotary table opendiameter, mm(in)	520.5 (20 1/2)
Max wind-resist capacity, m/s	51.5 (no standpipe, undernoload) 36 (full standpipe、under no load)	Design temperature, °C	-10
Wobble	Vertical wobble15° horizontal wobble15°	Wobble period, Sec	10

3.5 3000 Meters Two-way Motion Offshore Drilling And Workover Rig

The drilling rig is a fast-moving offshore drilling and workover rig module, which is installed on the multifunctional self-propelled and self-raising COSL Liftboat platform to complete multi-wellhead workover group operation.

Technical Parameter

Nominal drilling depth, m	3000 (ϕ 114mm drill pipe)
Max hook load, kN	1700
Drawworks rated power, kW	600
Drawworks gear number	I+IR AC variable-frequency drive, stepless speed regulation
Drilling wire rope diameter mm	ϕ 29
Hoisting system rope series	5 \times 6
Mast/derrick type and clear height	Telescopic module, 33m
Mud pump number and type	2 \times F-1000
rotary table open nominal diameter, mm(in)	ϕ 698.5(27 1/2)
rotary table gear number	I+IR AC variable-frequency motor single shaft drive, stepless speed regulation
AC variable-frequency drive unit(VFD)	One-to-One vector control
MCC system	600V/400V/230V 50Hz



3.6 HDC-7000 Meters Offshore Unit

Main Features

1. Good power performance, use Kangmingsi 6BTA5.9C180 engine as power, has the merits like save oil and durable, compact structure, good accelerating performance, reliable work, and easy start.
2. Advanced technology, this unit use module composite structure, compact structure, light weight, convenient to installation.
3. Stable performance, use international famous brand hydraulic component and high speed ratio planetary transmission;
4. Free operation, use hydraulic conveying electric proportion control, stepless speed regulation.
5. Convenient power, and has two circuits supply: (1) Outer introducing power; (2) Independent diesel engine generator power or hydraulic generator power, configure storage battery, and can supply 12v and 24v two kind DC.
6. Has positive pressure explosion-proof unit, the whole body of unit is treated with anti-corrosion.

Technical Parameter (Single Drum)

Type of engine 6BTA5.9—C180	Rated power : 132kW/2500r/min	
	Maximum torque : 610N · m/1500r/min	
Technology performance of winch	Drum rope capacity: Φ 12.7mm cables:7500m	
	Max work depth : 7000m	
	Winch work speed: 30—8000m/h	
	Winch max load: 65kN	
Dimension	main unit: length × width × height: 5500mm × 2370mm × 2690mm	
	drive unit: length × width × height: 2370mm × 1180mm × 2452mm	

Technical Parameter (Double Drum)

Type of engine 6BTA5.9—C180	Rated power : 132kW/2500r/min	
	Maximum torque : 610N · m/1500r/min	
Technology performance of winch	big drum	ϕ 8mm
		cables:7500m
	small drum	ϕ 5.6mm
		cables:7500m
max work depth	7000m	
winch work speed	30—8000m/h	
winch max load	big drum: 65kN small drum: 25kN	
dimension	main unit: length × width × height: 3730mm × 2500mm × 2250mm	
	drive unit: length × width × height: 2500mm × 1100mm × 2250mm	