Hydraulic offshore drilling package unit for fixed installed platforms

- Hydraulic cyber rig with telescopic doubles mast
- Automatic pipe rack with extendable capacity
- Tremendous reduction of HSE exposures
- Horizontal bucking unit for time reduction
- Extremely powerful top drive
- Compact rig design
- XY skidding for pad drilling
- Turnkey drilling package
- Made in Germany
Offshore rig package TI-600 DPU

Technical specifications

HOOK LOAD

- Max. hook load: 590 mt (650 sht)
- Height (extended): 41 m (135 ft)
- Width: 10 m (32 ft)

MAST*

- Type: telescopic twin profile
- Height (extended): 41 m (135 ft)
- Width: 10 m (32 ft)

SUBSTRUCTURE*

- Type: single lift framework with XY skidding unit
- Dimensions: 10 m × 12 m × 11 m (32 ft × 39 ft × 36 ft)
- Installed equipment: HPU, MCC, BOP hoist, closing unit, trip tank

HOISTING SYSTEM*

- Type: double cylinder system
- Hoisting power: 2,400 kW (3,200 hp)
- Stroke: 24 m (79 ft)
- Brake: hydraulic lowering brake valves

Ultra sensitive operation due to multi-valve hydraulic control.

TOP DRIVE*

- Type: HV TD H 650-1340
- Max. static load: 590 mt (650 sht)
- Max. push load: 160 mt (175 sht)
- Max. rotary speed: 220 rpm
- Max. continuous rotary torque: 120,000 Nm (88,500 ft-lbs)
- Rated power: 1,000 kW (1,340 hp)
- Drive: hydraulic

Including IBOP, pipe handler and dolly with torque pick-up.

ROTARY TABLE*

- Table opening: 1,257 mm (49")
- Load rating: 590 mt (650 sht)
- Rated power: 120 kW (160 hp)
- Drive: hydraulic

RIIG POWER SUPPLY*

- Hydraulic power unit: 4× 600 kW (4× 800 hp)
- Drives all components including hoisting system, top drive, rotary table and pipe handling system

PIPE HANDLING SYSTEM*

- Type: automated horizontal racking system with horizontal-to-vertical pipe handler
- Pipe length: doubles range 2
- Max. tripping speed: 600 m/h (1,970 ft/h)
- Drive: hydraulic

The complete pipe handling system is designed to handle drill pipe in doubles range 2, drill collars and casing. The controls are semi-automated and the system is operated by the pipe handling operator or the driller. An integrated anti-collision system ensures a safe pipe handling process during all operations.

DRILLER’S CABIN*

- Controls: joystick, trackball and touch screen with camera control

* Components manufactured by Herrenknecht Vertical