

Portable Top Drives



MH™ PTD series

Our portable top drives (PTD) have a compact and light design offering high portability and flexibility. They are cost effective on a small footprint and suitable for both onshore and offshore drilling operations.

Our PTD system is designed according to all recognized standards in the drilling industry. The equipment design is precise and the production processes for the gear box utilizes the highest quality selection of gears. On top of this, the bearings reduce wear and tear, as well as, maintenance downtime and costs.

The PTD includes a remote controlled, multifunctional pipe handler, enabling 360° continuous rotation. The pipe handler is also equipped with auto positioning to ensure safe, easy and accurate orientation of the elevator.

Our standard PTD includes a tool face orientation system for controlling the direction of the downhole motor during directional drilling. The accuracy of the deviation is thereby easily maintained.

Our PTD is delivered with a control system for optimal operation and lifecycle support.

We deliver a wide range of different equipment and solutions for various operator environments onshore and offshore; from the robust stainless steel panels for outdoor use in hazardous areas, or to the state-of-the-art DrillView™ operator environment for the driller's control room. Interfaces to most third party operator systems are also available.

The AC motor is controlled from a VFD, integrated in an air conditioned 20 ft container.

Additional Options

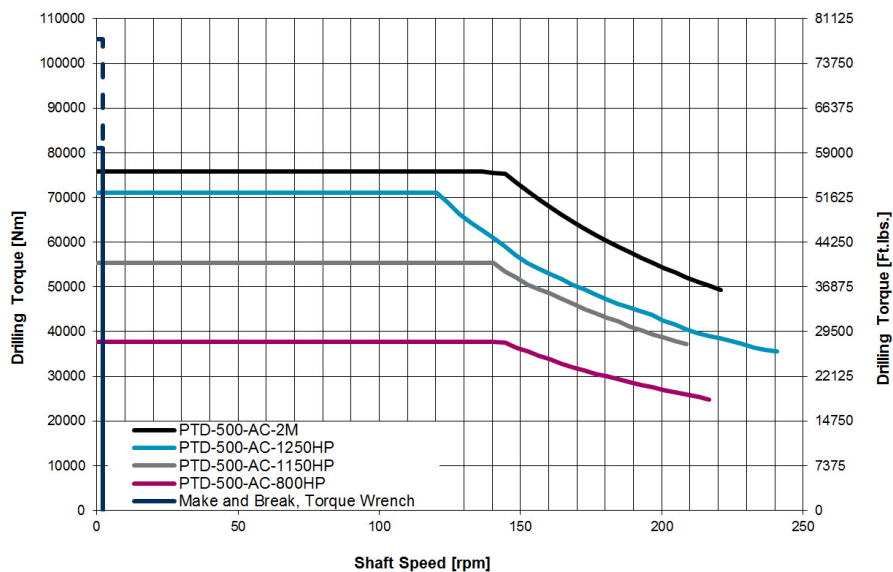
- DNV approval
- CE marking
- Various elevator links, saver subs, wire line guide, etc.
- Soft Torque Z

Benefits

- One of the most compact and light-weight designs in its class
- Due to the bi-directional link tilt system our PTDs can be lowered close to drill floor, eliminating manual handling
- On-board hydraulic power unit (HPU), no need for separate HPU and hydraulic service loop
- Infinitely adjustable tool face orientation system, not limited to 0-359°
- Service platform for easy maintenance access



Operating Performance



Technical Specifications

	PTD-500-AC	PTD-500-AC-1M-1150HP-5000/7500 PSI	PTD-500-AC-2M	PTD-500-AC-1250HP
Controls	Electric remote			
Weight	25 100 lb (11 400 kg)	27 100 lb (12 300 kg)	35 270 lb (16 000 kg)	33 510 lb (15 200 kg)
Motor type	AC			
Power rating	800 hp (597 kW)	1 150 hp (858 kW)	2 x 800 hp (2 x 597 kW)	1 250 hp (945 kW)
Height	17.4 ft (5.3 m)		17.7 ft (5.5 m)	20.3 ft (6.2 m)
Continuous torque, max.	27 800 lbf-ft (37 700 Nm)	40 800 lbf-ft (55 300 Nm)	55 540 lbf-ft (75 306 Nm)	52 360 lbf-ft (71 000 Nm)
Speed @ max. continuous torque	140 rpm			120 rpm
Intermittent torque	41 700 lbf-ft (56 500 Nm)	N.A.		
Speed, max.	216 rpm	208 rpm	220 rpm	240 rpm
Hook load	500 short tons (453.6 mT)			
Pressure class	5 000 psi (345 bar)	5 000/7 500 psi (345 /517 bar)	7 500 psi (517 bar)	
IBOP pressure rating	10 000 psi (60 bar)	15 000 psi (1 034 bar)		
Water course	3 in (76.2 mm)			
Torque wrench, make-up/break out	60 000 lbf-ft (81 000 Nm)	60 000 lbf-ft (81 000 Nm)*		
Hazardous area classification (according to IEC 60079-10-1)	Zone 1			
Ambient temperature, min./max.	-4°F/+113°F (-20°C/+45°C)**			-4°F/+131°F (-20°C/+55°C)

* Optional high torque wrench with 78 000 lbf-ft (105 500 Nm) capacity

** Optional ambient temperature +131°F (55°C) available upon request

Data is subject to confirmation by the manufacturer.