

# Pile Top Drill Rig PBA 1042



**MHWirth's new high-end pile top drill rig PBA 1042 combines powerful drilling with user-friendly handling to achieve your drilling targets faster and reduce the total cost of ownership. It performs drilling diameters up to 3.2 m through the workfloor and even 4.5 m with a special setup.**

Our new PBA 1042 is the result of decades of foundation drilling experience in the most challenging ground conditions. The PBA 1042 is equipped with an ultra-strong three-motor-driven power swivel, increasing drilling performance by up to 20 % and at the same time minimizing wear and tear on the corresponding components. Additionally, the new power swivel has a continuous oil and lubricant circuit monitoring system, ensuring proper lubrication functionality and maximizing the uptime of your drill rig. It enhances your performance in large diameter drillings, both onshore and offshore.

The hydraulically operated drill pipe retaining flaps simplify handling and increase safety at the PBA 1042. New bolt-on connections, standardized railings and a new "one-lift" unit design of the valve stand and operator cabin reduce the rig's set-up time by up to 25 %.

The PBA's U-shaped mast is made from high tensile steel. This significantly contributes to the PBA 1042 having the best weight/performance ratio in its class.

The PBA 1042 comes with our latest hydraulic power pack, HP VI/HP VI-s, including a powerful premium motor

and a soundproofed cover to reduce noise emission substantially, i.e. to  $\leq 78$  db(A). The built-in exhaust system reduces set-up time and independent cooling systems for the engine while the hydraulic system ensures full performance, even in heavy-duty working conditions and high ambient temperatures.

Additionally, optional multi-function features for the HPU enable the ability to drive casing oscillators or other pile top drill rigs.

In all our products and services, we take HSE requirements seriously and continually strive for zero harm to personnel, property and the environment. The new PBA 1042 and HP VI/HP VI-s include various improvements for increased user-friendliness and HSE performance, such as

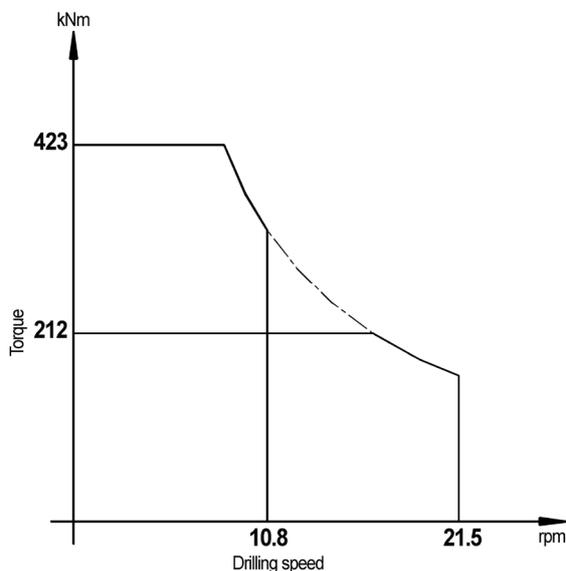
- Red marked retaining flaps in the power swivel's hazardous area
- Easy to access emergency stop buttons at the PBA and the HPU
- Enhanced environmental features within the HPU
  - Operation with biodegradable oil possible
  - Spillage protection due to integrated tray

## Benefits

- 20 % increased drilling performance with three motors in the power swivel
- Up to 25 % time-saving for set-up
- Multi-functional use of the hydraulic power unit
- Improved focus on HSE
- Best weight/performance ratio in its class
- Air-conditioned operator's cabin



# Pile Top Drill Rig PBA 1042



## Technical Specifications

Pile Top Drill Rig	PBA 1042/3200/330
Maximum power swivel torque	420 kNm (310 000 ft·lb)
Maximum drilling speed infinitely variable	21 rpm
Maximum thrust force	1 100 kN (247 000 lb)
Maximum pull back	2 000 kN (450 000 lb)
Unit weight drill rig (without casing clamp)	34 500 kg (38.0 short tons)
Unit weight hydraulic clamping device	9 000 kg (9.9 short tons)
Total weight, approx.	43 500 kg (48.0 short tons)

Technical data is subject to change.

Power Pack		HP VI/HP VI-s
Hydraulic power pack rating		470 kW (639 hp)
Unit weight hydraulic power pack (dry)		8 600 kg (9.5 short tons)
Dimensions	Length Width Height	5 920 mm (19.4 ft) 2 100 mm (6.9 ft) 2 320 mm (7.6 ft)