

# Wirth TPK 1600 Mud Pumps

## For onshore or offshore applications

Since 1904, HMH has built the most reliable and service-friendly mud pumps available in the market.

### Product description

The 1600 hp mud pumps are designed to circulate drilling fluid under high pressure (up to 7,500 psi) down the drill string to support any project requirements onshore or offshore.

Our precise equipment design and production processes reduce wear and tear, as well as, maintenance downtime and costs. Our precise machining makes shimming obsolete; the pump is ready to use after set-up and runs smoothly throughout the operation. Very low noise and vibrations levels increase the HSSE performance.

The light weight triplex pumps are extremely compact and require minimum space. Different skid, main motor and drive arrangements for rear- or top-mounted configurations meet all onshore and offshore rig requirements. The mud pumps are accredited in accordance with API-7K.

### Benefits

- Large variety of drives, motor and skid configurations to meet your needs for onshore or offshore projects
- 5 % less weight than pumps from other OEMs simplifying the required infrastructure on the rig and reducing the cost of rig configuration
- Lowest Total Costs of Ownership with:
  - Hydraulic quick release system for fluid ends
  - Consumables and spare parts with HMH quality
  - More than 3 x higher uptimes with our unique gear drive

### Key features

- Unique gear drives with a lifetime of up to 50,000 hours, replacing less durable and louder chain or belt driven configurations (15,000 hours lifetime)
- Interchangeable AC water jacket motors can be used both on mud pumps and on drawworks. This keeps your spare parts stock at a minimum and reduces downtime in case of a replacement. These motors reduce noise further to less than 85 dB(A)
- Hydraulic quick release system for fast tensioning and replacement of fluid end parts without heavy tools. Necessitating less physical strength compared to tensioning of the screws via torque, this method improves safety and reduces maintenance downtime
- Third party certifications such as ABS and DNV possible
- Mud pump control system with HMI using a red dot system indicating visually faulty devices and guiding the user. Control via DCMS software and/or operator chair provides high flexibility and a local panel at the pump allows for easy maintenance handling



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## Technical specifications

The table below is a selection of typical variants.

		TPK 1600-AC-TG-WJ	TPK 1600-AC-RG-WJ	TPK 1600-AC-RB-FV-1M	TPK 1600-DC-RC-FV
Typical application		Offshore, mud circulation or booster pumps for jackups, tender barges/tender semi-subs, fixed platforms			
				Onshore, normal duty mud circulation	
Discharge flow, max.		826 gpm (187 m <sup>3</sup> /h)			
Operating pressure, max.		7,500 psi (517 bar)		5,000 psi (345 bar)	
Standard main motor		Single AC, water jacket	Single AC, water jacket	Single AC, forced ventilated	Double DC, forced ventilated
Standard drive configuration		Top mounted gear drive	Rear mounted gear drive	Rear mounted belt drive, single sided	Rear mounted chain drive, dual sided
Dry weight		80,027 lbs (36,300 kg)	83,776 lbs (38,900 kg)	75,178 lbs (34,100 kg)	8,2012 lbs (37,200 kg)
Dimensions	Length	183 in (4,638 mm)	260 in (6,612 mm)	304 in (7,720 mm)	292 in (7,420 mm)
	Width	130 in (3,300 mm)	130 in (3,300 mm)	118 in (2,992 mm)	119 in (3,020 mm)
	Height	135 in (3,405 mm)	152 in (3,865 mm)	149 in (3,775 mm)	151 in (3,830 mm)

Data is subject to confirmation by the manufacturer.

