Water well drill TH10LM OBC

DTH, rotary air and mud drilling

Epiroc



Built efficiently with on-board air for maximizing profitability

The TH10LM OBC is hydraulically powered water well drill designed for air foam, mud rotary and down the hole drilling. It can be combined with a choice of circulation system and drill pipe to enable drilling in semi-consolidated, consolidated formations using air, air foam, mud rotary or DHD, depending upon the formation with suitable drilling accessories and tools.

+ Simplicity at its best

The TH10LM OBC features a simple, reliable power source and hydraulic system. The truck engine through PTO powers the drill hydraulics. The hydraulic rotary top-head drive generates a hefty torque for each class of drill in the range. The simplistic design of the driller's console allows the driller to quickly become familiar with this drilling rig.

We also provide a standard manifold that connects to on-board mud system or an air compressor mounted off-board to meet different drilling requirements. The connections are standard 2" hammer joint coupling which are very easy to couple or decouple. This makes it even better for drillers to optimize the drilling operation.

+ Build to last

At Epiroc we have a rich mining history of designing products for the world's worst environments. This design philosophy is translated to our TH10LM OBC water well drill rig resulting in our customers enjoying decades of operation from our equipment.

+ Global service and parts support

Buying capital equipment from Epiroc is only the beginning of your great experience with us. With our strong customer centers, distributors & dealers network we can support you from all corners of the world.



Dimensions	Metric	Imperial
Length	10.6 m	34.7 ft
Width	2.4 m	7.8 ft
Height tower down	4.3 m	14.1 ft
Total weight	26 tons	57,300 lbs

- Note: dimensions and weight is subject to vary depending on the truck selection

Features and benefits



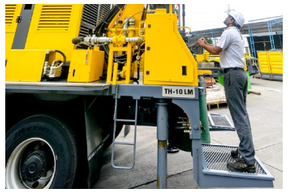
Long mast, long life feed system
The TH10LM OBC has a robust long mast designed to handle up to 6m (20ft) drill pipes and casing pipes. With a reduced number of pipe joints, the TH10LM OBC achieves greater depth in a short time thus increasing drilling efficiency. The lattice tower structure is wide enough to store bigger diameter sheaves of feed system that gives better (D/d) ratio resulting in longer life of the ropes & sheaves. The rotation head slides on the guide bars with guide shoes and replaceable nylon pads that make it easy to replace and costs less to maintain.



Longevity
A heavy duty machine's life is dependent on the quality of materials, welds performed, assembly procedure and tools that are used to make it. We carry more than 100 years of history of producing robust mining machines and the same is implemented for our water well drills. Rigs produced in our factory have branded components, heavy structures are welded by certified welders and assembled by certified technicians with industries latest assembly procedures and tools.



On-board compressor
The TH10LM OBC carries compressor onboard thus eliminating the need for additional trucks. It has an engine that can be shut down during hole tripping for maximizing fuel saving. Like other components, customers can easily add or remove compressor if required which gives the feel of plug-and-play. Also, this feature can provide extra space needed for carrying extra tools and accessories.



Operator comfort & safety
When drilling in tough conditions, it is important that operators and helpers get maximum safety & comfort to work. Our machines come with a full-width steel and anti-skid platforms that give maximum comfort to the drilling crew, resulting in safe working conditions and efficiency in completing a well faster.



Technical specifications

		Metric	Imperial
Feed system	Pullback	11,338 Kgf	25,000 lbf
	Pulldown	6,802 Kgf	15,000 lbf
	High speed up	24.5 m/min	80 ft/min
	High speed down	35.7 m/min	117 ft/min
Derrick capacity	Rated	15,000 Kgf	33,609 lbf
Compressor	Type	Rotary screw compressor	
	Option 1	568 l/s @ 23.2 Kg/cm2	1,200 cfm @ 330 psi
	Option 2	519 Kg/cm2 @ 21 Kg/cm2	1,100 cfm @ 300 psi
	Option 3	283 l/s @ 14 Kg/cm2	600 cfm @ 200 psi
Rotary head	Torque	760 Kg.m	5,500 ft.lb
	Rotation speed	0-75 rpm (variable)	
	Spindle	2.7/8 API IF or 2.3/8 API Reg	
	Head travel	7 m	22.9 ft
Table	-	Can be split opened by removing the pin	
	Table opening	400 mm	15.7 inch
Levelling	-	Hydraulically operated	
	Number, stroke	Four jacks, stroke 762 mm	Four jacks, stroke 30 inch
Winch	Main	8,163 Kgf	18k lbf
	Line speed, rope diameter, spooling capacity	0-50 m/min, 16 mm, 50 m	0-164 ft/min, 5/8 inch 164 ft
	Auxiliary	1,000 Kgf or 1,814 Kgf	2.2 klbs or 4 klbs
Rod & casing handling	Drill pipe elevator	3 m or 6m	10 ft or 20ft
Water injection	Piston pump	45 lpm @ 31 bar	0-12 gpm @ 450 psi
Mud system	Centrifugal	1,134 lpm @ 10 bar	300 gpm @ 145 psi
	Piston	568 lpm @ 21 bar	150 gpm @ 304 psi
	Piston	536 lpm @ 22 bar	142 gpm @ 310 psi
Lubricator	DHD	0-17.5 bar or 0-24 bar	0-250 psi or 0-350 psi
Welder	Amperes	300 A	300 A

- Note: For truck selection contact your local customer center, our drill module can be mounted on local trucks.

Standard scope items

- Feed system driven by hydraulic feed cylinder and rope
- Sturdy long mast and mainframe
- High torque rotation head with hydraulic motors
- Four hydraulic operated levelling jacks
- Ergonomically designed driller console
- Bubble level
- Efficient hydraulic system
- Drill pipe elevators
- Standard tools
- Maintenance & overhaul tool box
- High quality lamps for night drilling
- Lifting bail

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United in performance. Inspired by innovation.

Performance unites us, innovation inspires us, and commitment drives us to keep moving forward. Count on Epiroc to deliver the solutions you need to succeed today and the technology to lead tomorrow.

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