

Blasthole Drills - IBH10 Mark II

DTH Drilling



Enhancing the drilling efficiency to next level

The Epiroc IBH10 Mark II has new features and design upgrades over its previous version to enhance your productivity. It is crawler mounted, hydraulic powered, self-contained and self-propelled blasthole rig, designed to perform down-the-hole drilling operation in toughest mining condition. This machine has already made its place proving enhanced performance at some of the important mines in the industry.

Drilling efficiency with enhanced drilling speeds

The new derrick or tower has lattice structure to reduce bending movement for long working trouble free hours. It can handle 6.1 m (20 ft) long drill pipes to achieve desired drilling depths in lesser time.

The feed system provides higher drilling speeds due to hydraulic cylinder and rope mechanism. The bigger sheaves (pulleys) reduces wear and enhance rope life. The rope mechanism also provides safety over chain mechanism as it has capability to absorb heavy shock loads while drilling.

The tower is also equipped with the rod changer to store additional rod in case required for drilling higher bench heights. This rod changer operates hydraulically and operator can easily add pipes sitting inside the cabin.

All new DGMS Safety compliance

Our priority is safety first! The IBH10 Mark II guarantees highest safety for the operator and environment where it is working.

This machine is equipped with air-conditioned cabin that has FOPS and ROPS certification that protects operator in the most dangerous situation. The cabin also has wide-angle windows for clear visibility of 360 degrees views that prevent any collision or accidents.

The IBH10 Mark II has standard auto-breakout system, mounted on the tower

to provide hands free breaking of drill pipe joints. The operator can easily control breakout operation from the cabin.

All new DGMS guidelines are carefully built-in this machine to provide additional safety. The machine has new features like Operator Fatigue Monitoring System, Rear View Camera and Seat Belt with reminder and many more feature as per the DGMS guidelines.

Productivity hole after hole

Epiroc is committed to be a sustainable productive partner for its customers. The IBH10 Mark II delivers our commitment by providing enhanced high-pressure powerpack, higher drilling speeds and new dual tramming speeds under carriage. The efficient hydraulic system has load sense pump to reduce engine load. The combined cooler packages minimizes rotating parts and save space. In addition, the new on-demand cooler fan drive only operates when needed saving the power consumption and most importantly 1-2 liter of fuel per hour.

Build to last

Epiroc has a long history of designing and building equipments to last and IBH10 continues this product history. Our success is no secret, we design with robustness in mind and select the highest quality components. Vibrations can take a toll on any mechanical equipment, especially in the case of drilling. Our team has taken care to design around these. Some examples are lowering the centre of gravity and isolating the engine from the main frame. Reducing the vibrations extends the mechanical life of the machine, reduces maintenance cost and increases productivity



Selection of options on IBH10 Mark II

Auto breakout system (hands free) - This system is completely hydraulically operated from the operator's cabin, making it safe and faster for breaking the rod and hammer joints.

Auto fire suppression system - The optional auto fire suppression system gives safety provision against ABC fires as per National Fire Protection Association.

Air conditioned cabin - Inside the cabin operator's seat is a fully adjustable suspension seat that can be used for both operating control console and tramming. The new cabin is available with an air conditioner.

Water injection system - It is damp drilling that involves injecting water into the hole blowing air system. Damp air mist coats the dust particles and after they have been blown from the hole, they settle around the lip of the hole instead of being blown into the atmosphere.

Centralized automatic lubrication system - The auto lubrication system for servicing critical moving parts. The high pressure air line lubricator venture type, which can handle a working pressure of 250psi, is mounted for maintaining optimum lubrication of hammer & bits. Lube failure indication is also provided.

Angle drilling package - The angle drilling package allows tower to be positioned from 0° to 15° from the vertical position, in 5° increments. All controls are located at operator's control console inside the cab.

Complies to all DGMS requirements - Viz; safety items like FOPS certified cabin, mode selector, propel interlock, audio visual alarm and track guards are provided.

Technical specifications

IBH10 Mark II

Drilling method	Down the hole	
Hole diameter	102-165 mm	4 - 6.5 in
Hydraulic pulldown	6,672 Kgf	15,000 lbf
Single pass depth	6.1 m	20 ft
Maximum hole depth	14 m	45 ft
Rotary head torque	3.2 kNm	2,367 ibf - ft
Engine		
Cummins	286kW @ 1800 rpm	390 HP @ 1800 rpm
Compressor	19.8 m ³ /min / 17.2 bar	700 cfm / 250 psi
Dimensions		
Mast raised (length)	6.5 m	21.35 ft
Mast lowered (length)	7.3 m	23.8 ft
Width	3.1 m	10.17 ft
Height		
Mast raised	7.2 m	23.93 ft
Mast lowered	3.4 m	11.15 ft
Estimated weight	21 ton	46,200 lbs

Drill rod specifications

Drill rod diameter for 4.1/2 in drilling	3 in OD x 20 ft - 2 nos 76.2 mm OD x 6.1 m - 2 nos
Drill rod diameter for 6.1/2 in drilling	4.1/2 in OD x 20 ft- 2nos 114 mm OD x 6.1 m - 2 nos



United. Inspired.

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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