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# Rock Drilling Equipment for Tunnels and Underground Mines



XCMG FOUNDATION CONSTRUCTION MACHINERY BUSINESS DIVISION

Xuzhou Construction Machinery Group Co., Ltd. (XCMG) was founded in 1943. Since then, XCMG has stood at the forefront of the Chinese construction machinery industry and developed into one of the domestic industry's largest, most influential, and most competitive enterprise groups with the most complete range of products.

XCMG is the 3rd largest construction machinery company in the world. It is ranked 65th in the list of China's Top 500 Companies, 44th in the list of China's Top 100 Manufacturing Enterprises, and 2nd in the list of China's Top 100 Machinery Manufacturers. XCMG is dedicated to its core value of "Taking Great Responsibilities, Acting With Great Morals, and Making Great Achievements" and its corporate spirit of being "Rigorous, Practical Progressive, and Creative" in order to keep moving towards its ultimate goal of becoming a leading world-class enterprise capable of creating real value.

XCMG Foundation Construction Machinery Business Division is one of the five cornerstone divisions of XCMG focusing on the research, development, manufacturing and sales of piling machinery, trenchless machinery, underground mining machinery, tunneling machinery, and resource drilling machinery, providing customers with comprehensive solutions. It accelerates the intellectualized reconstruction and digital transformation, and has built a thousand-mu new base for intelligent manufacturing to form a world-class industry cluster of foundation construction machinery. At present, XCMG trenchless machinery ranks first in the world and XCMG piling machinery is in the first class. Its various types of products have been exported to more than 80 countries and regions.

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Piling machinery



Trenchless machinery



Underground mining machinery



Tunneling machinery



Surface mining and exploration machinery

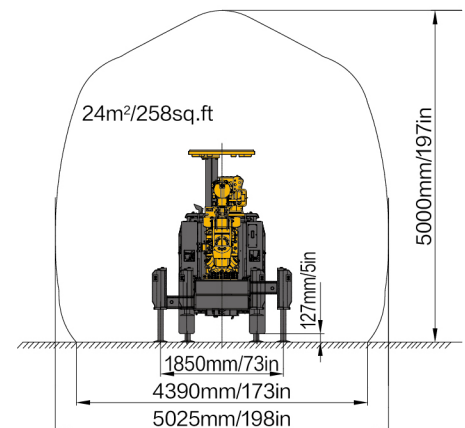
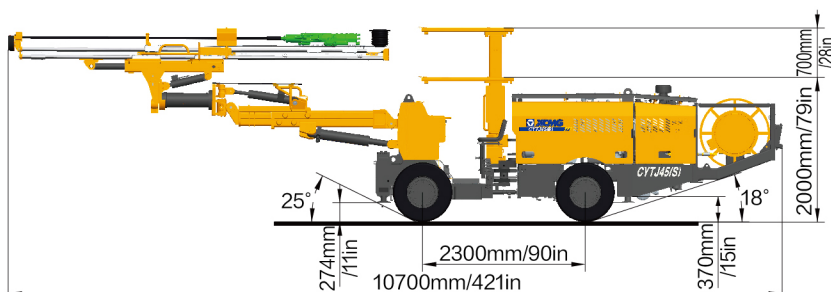




Item	Value			
<b>Rock drill</b>				
Brand model	Montabert HC109		Montabert HC109	
Impact power	25.1 hp		18.8 kW	
Drilling diameter	1.7-4.0, 1.7 (Standard) in		45-102, 45(Standard) mm	
<b>Boom</b>				
Boom extension	35.4 in		900 mm	
Feed extension	59.0 in		1500 mm	
Parallel holding	Standard		Standard	
<b>Feed</b>				
Total length of feed	212.5 (Standard) in	186.6 in	5400 (standard) mm	4740 mm
Drill steel length	145.6 (Standard) in	121.6 in	3700 (standard) mm	3090 mm
Hole depth	133.8 (Standard) in	106.2 in	3400 (standard) mm	2700 mm
<b>Chassis</b>				
Gradeability	14 °		14 °	
Tramming speed	546.8 ft/min		10 km/h	
Engine manufacturer	Cummins		Cummins	
Engine power	100.5 hp		75 kW	
Engine emission standard	EU V		EU V	
<b>Water system</b>				
Capacity	13.2 gal/min		3 m³/h	
Water inlet pressure	29.0 psi		2 bar	
<b>Air system</b>				
Capacity	24.7 cfm		700 L/min	
Pressure	116.0 psi		8 bar	
<b>Electrical system</b>				
Total installed power	80.4 hp		60 kW	
Voltage/Frequency	380 V/50 Hz		380 V/50 Hz	
Cable length	262.4 ft		80 m	
Weight	22050 lb		10 t	

## Main features

- XUD125 is mainly suitable for the tunneling operations of metal mines (such as underground gold mines, iron ores, and copper mines), non-metal mines (such as gypsum mines and phosphorite), hydropower projects, small tunnels, inclined shafts, culverts, etc. It can be used for the construction of blast holes and bolting holes holes;
- Narrow body design makes it well adapted to narrow tunnels with a profile of 2.5mx2.5m to 5.mx5.0m;
- Hydrostatic transmission makes the machine more compact and easier maneuverability;
- Modular design makes it possible to be disassembled to access mine through cages;
- The telescopic drill boom is adopted for large coverage.

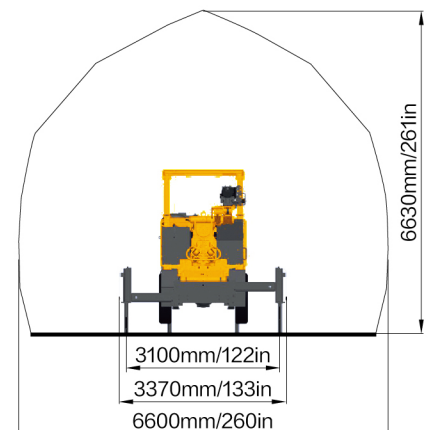
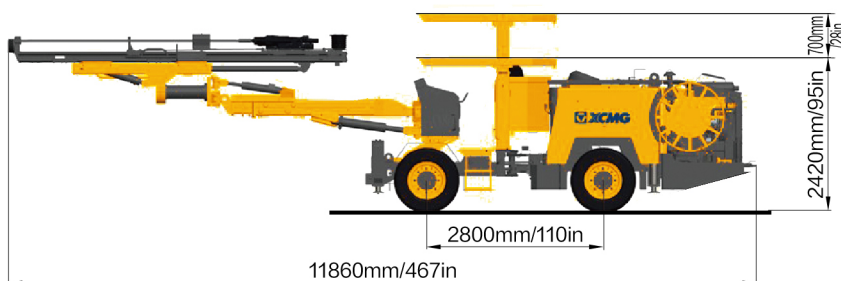




## Main features

- XUD135 is mainly suitable for the tunneling operations of metal mines (such as underground gold mines, iron ores, and copper mines), non-metal mines (such as gypsum mines and phosphorite), hydropower projects, small tunnels, inclined shafts, culverts, etc. It can be used for the construction of blast holes and bolting holes holes;
- Suitable tunnel size: 3m×3.5m-6.6m×6.6m;
- SAHR system is optional for the service brake to improve safety under long downhill conditions;
- The feed is equipped with unique single-layer hose reel, which effectively improves the service life of the hose;
- The impact pump and the auxiliary pump adopt two independent plunger pumps, with better parameter matching.

Item	Value			
<b>Rock drill</b>				
Brand model	Montabert HC109	Montabert HC109		
Impact power	25.1 hp	18.8 kW		
Drilling diameter	1.7-4.0, 1.7 (Standard) in	45-102, 45(Standard) mm		
<b>Boom</b>				
Boom extension	49.2 in	1250 mm		
Feed extension	49.2 in	1250 mm		
Parallel holding	Standard	Standard		
<b>Feed</b>				
Total length of feed	214.0 (Standard) in	235.6 in	5437 (standard) mm	5986 mm
Drill steel length	145.6 (Standard) in	169.4 in	3700 (standard) mm	4305 mm
Hole depth	133.8 (Standard) in	157.4 in	3400 (standard) mm	4000 mm
<b>Chassis</b>				
Gradeability	14 °	14 °		
Tramming speed	874.8 ft/min	16 km/h		
Engine manufacturer	Cummins	Cummins		
Engine power	100.5 hp	75 kW		
Engine emission standard	EU V	EU V		
<b>Water system</b>				
Capacity	22.0 gal/min	5 m³/h		
Water inlet pressure	29.0 psi	2 bar		
<b>Air system</b>				
Capacity	21.1 cfm	600 L/min		
Pressure	116.0 psi	8 bar		
<b>Electrical system</b>				
Total installed power	84.4 hp	63 kW		
Voltage/Frequency	380 V/50 Hz	380 V/50 Hz		
Cable length	262.4 ft	80 m		
Weight	30870.0 lb	14 t		

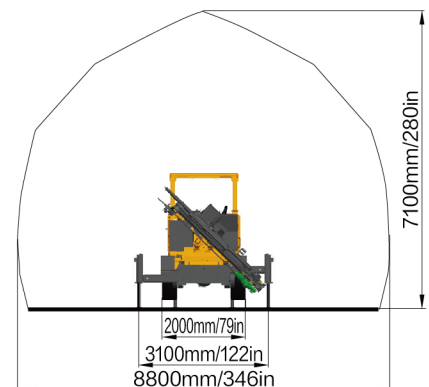
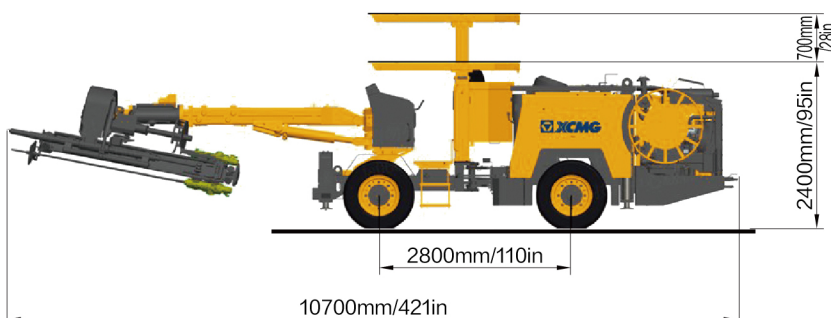




Item	Value			
<b>Rock drill</b>				
Brand model	Montabert HC25	Montabert HC28	Montabert HC25	Montabert HC28
Impact power	10.7 hp	13.4 hp	8 kW	10 kW
Drilling diameter	1.2-2.0 in		32-51 mm	
<b>Chassis</b>				
Gradeability	14 °		14 °	
Tramming speed	984.2 ft/min		18 km/h	
Engine manufacturer	Cummins		Cummins	
Engine power	100.5 hp		75 kW	
Engine emission standard	EU V		EU V	
<b>Bolting head</b>				
Anchor bolt length (HC25)	70.8 (Standard) /78.7/86.6/98.4 in		1800 (Standard) /2000/2200/2500 mm	
Drill steel length (HC25)	83.4 (Standard) /89.3/97.2/108.2 in		2120 (Standard) /2270/2470/2750 mm	
Drilling depth (HC25)	77.5 (Standard) /83.4/91.3/102.3 in		1970 (Standard) /2120/2320/2600 mm	
Total length (HC25)	125.9 (Standard) /131.8/139.7/152.3 in		3200 (Standard) /3350/3550/3870 mm	
<b>Screen handler</b>				
Weight of mesh	≤110.2 lb		≤50 kg	
One-time mesh hanging qty	1 Pcs		1 Pcs	
Size of mesh opening	3.9×3.9~5.1×5.1 in		100×100-130×130 mm	
<b>Water system</b>				
Capacity	22.0 gal/min		5 m³/h	
Minimum water inlet pressure	29.0 psi		2 bar	
<b>Air system</b>				
Capacity	21.1 cfm		600 L/min	
Pressure	116.0 psi		8 bar	
<b>Electrical system</b>				
Total installed power	88.4 hp		66 kW	
Voltage/Frequency	380 V/50 Hz		380 V/50 Hz	
Cable length	262.4 ft		80 m	
Safety protection functions	Electric leakage, overload and short circuit protection		Electric leakage, overload and short circuit protection	
Weight	30870.0 lb		14 t	

## Main features

- XUB135 is mainly suitable for the bolting operations in metal mines (such as underground gold mines, iron ores, and copper mines), non-metal mines (such as gypsum mines and phosphorite), hydropower projects, small tunnels, inclined shafts, culverts, etc;
- For the construction of 1.8m anchor bolts, the suitable tunnel size is 3.4m×3.4m-8.8m×7.1m;
- A reverse braking system is optional for the service brake to improve safety under long downhill conditions;
- The impact pump and the auxiliary pump adopt two independent plunger pumps, with better parameter matching;
- The water pump is equipped with an automatic exhaust device to avoid manual exhaust operation.

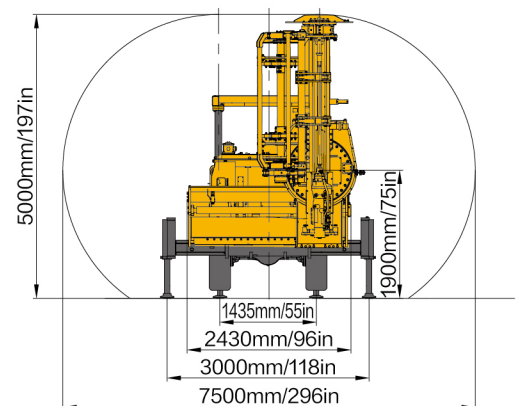
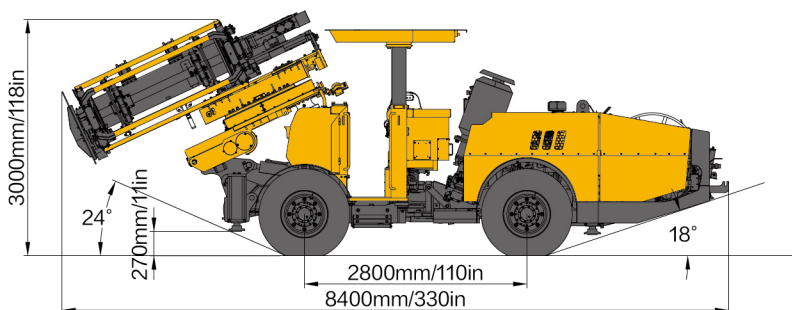




Item	Value			
<b>Rock drill</b>				
Brand model	Montabert HC95LQW		Montabert HC95LQW	
Impact power	32.1 hp		24 kW	
Drilling diameter	2.5-4.0 in		64-102 mm	
<b>Boom</b>				
Feed extension	40.9/45.5 in		1040/1156 mm	
<b>Feed</b>				
Total length of feed	133.8 (Standard) in	128.1 in	3400 mm	3255 mm
Drill steel length	60.0 (Standard) in	48.0 in	1525 mm	1220 mm
Hole depth	134.5 ft		41 m	
<b>Chassis</b>				
Gradeability	14 °		14 °	
Tramming speed	546.8 ft/min		10 km/h	
Engine manufacturer	Cummins		Cummins	
Engine power	100.5 hp		75 kW	
Engine emission standard	EU V		EU V	
<b>Water system</b>				
Capacity	22.0 gal/min		5 m³/h	
Water inlet pressure	58.0 psi		4 bar	
<b>Air system</b>				
Capacity	24.7 cfm		700 L/min	
Pressure	145.0 psi		10 bar	
<b>Electrical system</b>				
Total installed power	113.9 hp		85 kW	
Voltage/Frequency	380 V/50 Hz		380 V/50 Hz	
Cable length	262.4 ft		80 m	
Safety protection functions	Electric leakage, overload and short circuit protection		Electric leakage, overload and short circuit protection	
Weight	38587.5 lb		17.5 t	

## Main features

- XUM135 is mainly suitable for the operation of medium-length holes and cable bolting holes in metal mines (such as underground gold mines, iron ores, and copper mines), non-metal mines (such as gypsum mines and phosphorite), hydropower projects, small tunnels, inclined shafts, culverts, etc;
- Suitable tunnel size: 3.5m×3.5m-7.5m×5m;
- The structure of "slewing bearing + swing cylinder" is adopted, with high overall strength and optional deflection mechanism to increase the working range of parallel holes;
- The drilling system adopts load-sensitive control and output on demand, with a high energy utilization rate;
- The control system is developed based on the controller, has good openness, and is convenient for easy addition of various functional modules.

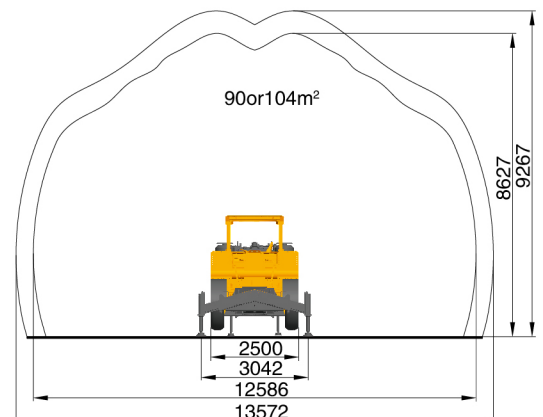
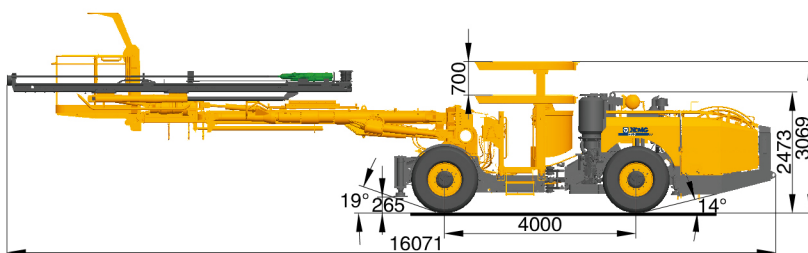




Item	Value	
<b>Rock drill</b>		
Brand model	Montabert HC109	Montabert HC109
Impact power	25.1 hp	18.8 kW
<b>Boom</b>		
Boom extension	62.9 in	1600 mm
Feed extension	70.8 in	1800 mm
Parallel holding	Standard	Standard
<b>Feed</b>		
Total length of feed	285.0 in	7240 mm
Drill steel length	217.5 in	5525 mm
Hole depth	205.3 in	5217 mm
<b>Chassis</b>		
Tramming speed	820.2 ft/min	15 km/h
Gradeability	14°	14°
Engine manufacturer	Cummins	Cummins
Engine power	187.6 hp	140 kW
Engine emission standard	EU V	EU V
<b>Water system</b>		
Capacity	44.0 gal/min	10 m³/h
Pressure	29.0 psi	2 bar
<b>Air system</b>		
Capacity	40.5 cfm	1150 L/min
Pressure	116.0 psi	8 bar
<b>Electrical system</b>		
Total installed power	215.7 hp	161 kW
Motor power × quantity	100.5 hp×2	75 kW×2
Voltage/Frequency	380 V/50 Hz	380 V/50 Hz
Cable length	262.4 ft	80 m
<b>Work platform</b>		
Lifting height	29.5 ft	9 m
Covering width	49.2 ft	15 m
Load capacity	926.1 lb	420 kg
Weight	77175 lb	35 t

## Main features

- Equipped with 140 kW high-power engine and 160 L large-volume fuel tank, it can reduce refueling frequency.
- The working lighting is powered by 24 V, which is safer. The lamps are small in size and will not block the field of vision to a large extent.
- Three-pump system is adopted. Independent variable plunger pumps are used for impact and positioning, and a gear pump is used for rotation, with good power match.
- Water hose reel is optional, which reduces the workload and makes the operation more convenient.
- It is equipped with motor thermistor protection to detect the motor winding temperature directly.
- The front and rear triangular cylinders are directly positioned, the single handle operation is used to realize up-down, left-right luffing, and the propeller is kept in parallel automatically.

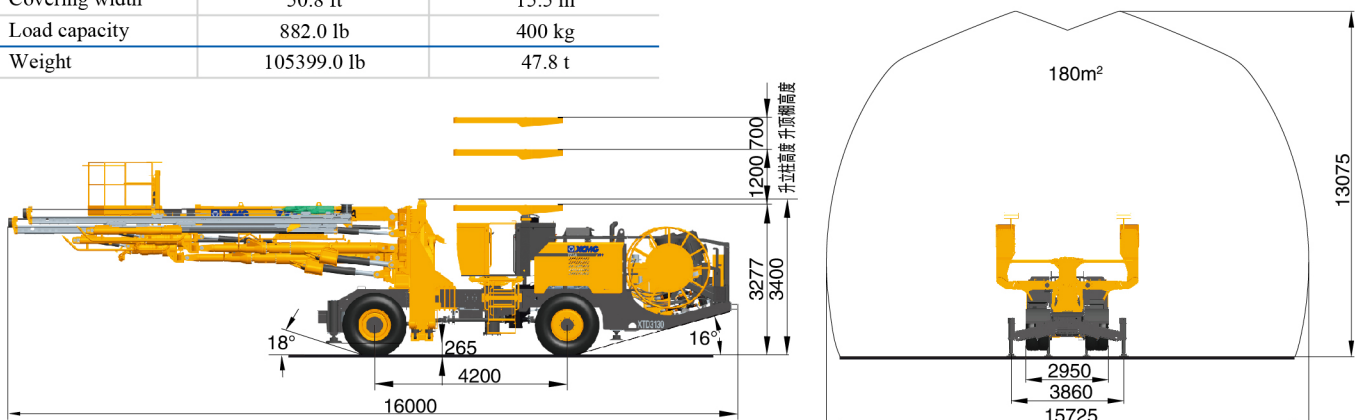




Item	Value	
<b>Rock drill</b>		
Brand model	Montabert HC109	Montabert HC109
Impact power	25.1 hp	18.8 kW
<b>Drill boom</b>		
Extension stroke	62.9 in	1600 mm
Thruster compensation stroke	70.8 in	1800 mm
Whole-process parallel keep	Standard	Standard
<b>Propulsion beam</b>		
Total length of propulsion beam	285.0 in	7240 mm
Drill pipe length	217.5 in	5525 mm
Single-pass drilling depth	202.3 in	5140 mm
<b>Chassis</b>		
Tramming speed	1230.3 ft/min	22.5 km/h
Gradeability	14°	14°
Engine manufacturer	Cummins	Cummins
Engine power	259.9 hp	194 kW
Engine emission standard	EU V	EU V
<b>Water system</b>		
Capacity	66.0 gal/min	15 m³/h
Pressure	58.0 psi	4 bar
<b>Air system</b>		
Capacity	36.3 cfm	1030 L/min
Pressure	116.0 psi	8 bar
<b>Electrical system</b>		
Total installed power	254.6 hp	190 kW
Motor power × quantity	73.7 hp×3	55 kW×3
Voltage/Frequency	380 V/50 Hz	380 V/50 Hz
Cable length	262.4 ft	80 m
<b>Work platform</b>		
Lifting height	39.3 ft	12 m
Covering width	50.8 ft	15.5 m
Load capacity	882.0 lb	400 kg
Weight	105399.0 lb	47.8 t

## Main features

- The propulsion structure is designed reasonably and the extrapolation angle is small, which is conducive to the effective control of over-excavation and under-excavation.
- The uniquely designed reel is adopted, the hose is arranged in a single layer, and the bottom hose and steel wire rope are of common rail design to reduce the reel height and prevent the wall from damaging the reel when drilling side holes.
- Multi-stage anti-jamming design is adopted to reduce the rod jamming caused by rock fissures and cavities effectively.
- International first-class brands such as Cummins engine, XCMG axle and Hangzhou Advance transmission are adopted to ensure the safe and reliable motion performance of the whole machine.



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 The actual supply status of the product shall be subject to the sales contract and the brochure shall be for reference only.  
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XUB135 , China , Copper mine



XUM135, China, Iron mine

XUD135, China, Gypsum mine



XUD135, Morocco, Iron mine

XUD135, China, Iron mine

XUB135, China, Tin mine



XUD135, China, Gold mine

XUD135, Chile, Copper mine

XUD135, China, Phosphate mine



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