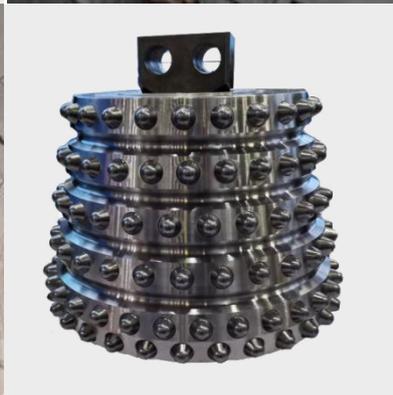


LITIAN HEAVY INDUSTRY MACHINERY CO., LTD



LITIAN
HEAVY INDUSTRY

Who we are ?



Litian Heavy Industry Machinery Co., Ltd, established in 2008, located in Huludao, Liaoning province, is a professional manufacturer focused on the production of top hammer rock drilling tools, TBM cutters, raise boring cutters. Our production bases cover an area of 27,000 square meters, and it is a comprehensive high-tech enterprise integrating development, production, sales and service.

Litian Heavy Industries focuses on the development and production of rock breaking and drilling tools for rock excavation and mine mining. Through continuous research and development in key areas such as materials, heat treatment, design and manufacturing processes, as well as conducting a large number of on-site tests, data analysis and summary under various rock conditions, with continuous improvement, Litian products are being widely recognized by more and more users, and become the first choice for users to deal with various complex rock excavation and mineral extraction.

We also work closely with users to select or design the most suitable products and solutions according to each user's construction conditions, equipment and excavation methods, and provide full-customized services to help users improve rock breaking efficiency, reduce the cost of comprehensive rock breaking, and become a trusted partner for users.



Litian Rock Tools History

1

In 2008, Litian heavy Industry was established in Huludao city, engaged in the production and sales of rock drilling tools for mines and engineering.

3

In 2012, New factory was built in Huludao City, Liaoning Province, which completed the transformation of production from manual control to automatic control, mainly producing TBM cutters and top hammer rock drilling tools. Litian actively participates in the construction of major projects in China and becomes the first manufacturer with full supply of TBM tools in China.

5

In 2015, according to different geological conditions, new materials were used and new processes were developed, which greatly improved the wear resistance and toughness of the products. Expand the development and production of TBM cutter head accessories, soft ground cutters and other products.

7

In 2017, Litian became the largest supplier of hard rock TBM cutting tools in China.

9

In 2020, Second factory in Huludao was completed and put into use. At the same time, the raise boring cutters has been successfully applied to mining projects with good results.

2

In 2009, introduced foreign advanced TBM disc cutter production technology, began to produce TBM disc cutters. In the same year, the Chengdu office was established, narrowing the gap between the products and many northwest engineering projects.

4

In 2013, a mobile maintenance workshop was developed to facilitate users' maintenance and application; advanced integrated intelligent equipment was introduced, and the production of rock drilling tools was in line with international rock tools processing equipment.

6

In 2016, the one-stop production line of annealing, machining, carburizing, straightening and surface strengthening of rock drilling tools was put into use. Litian has become long-term cooperation units with domestic heavyweight construction units such as CRCHI, CSIC, China's hydropower construction bureaus, and has established product service stations in many places.

8

In 2019, Began to develop and produce raise boring tools.

What we do ?

Our rock tools consumables are mainly used in tunneling, mining, quarrying, road and construction. We provide products, design, consulting, and maintenance services.



◆ Top Hammer Rock Drilling Tools

- Drill Rod
- Drill Bit
- Shank Adapter
- Coupling Sleeve

◆ TBM Cutters

- TBM Disc Cutter
- Soft Ground Cutters
- Accessories & Parts



◆ Raise Boring Drilling Tools

- Roller Cutter

Top Hammer Drilling Tools



Mining



Quarrying

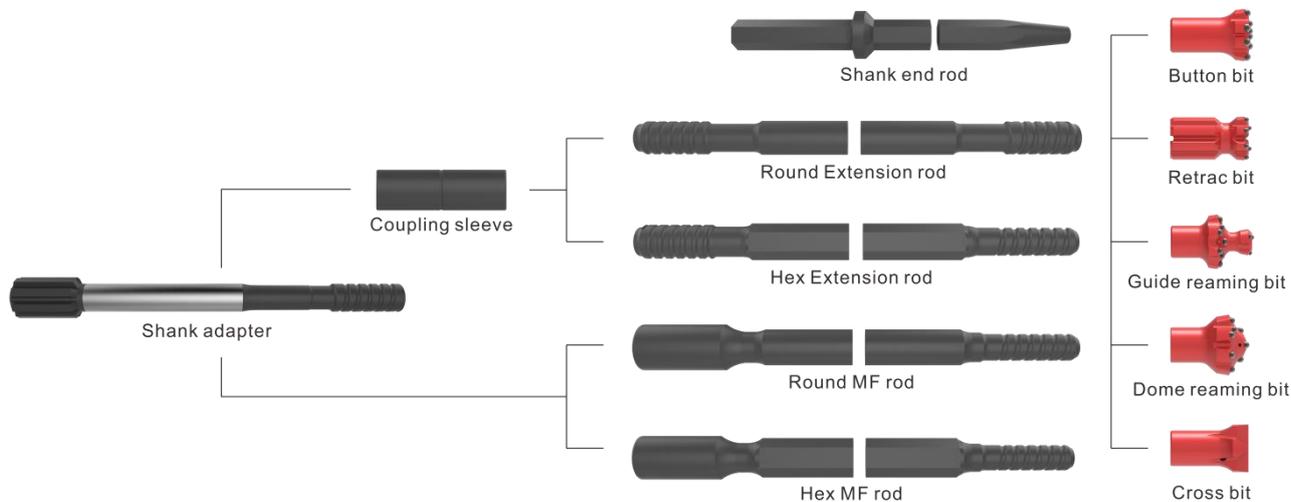


Tunneling



Construction

Top Hammer Drilling Tools



Product Specification



Top Hammer Rock Drilling Tool		
Button Bit	Material	Tungsten Carbide, Structural Alloy Steel
	Thread	R25, R28, R32, R35, R38, T38, T45, T51, GT60, ST58, ST68
	Bit Type	Standard button bit, Retrac button bit, Reaming bit, Tapered button bit
	Skirt Design	Standard type, Retrac type, Straightrac type
	Face Design	Flat face, Drop center face, Uni-face, Reaming type, Cross type face
	Button Shape	Spherical buttons, Ballistic buttons, Conical buttons, Composite buttons
	Head Diameter	28mm~152mm

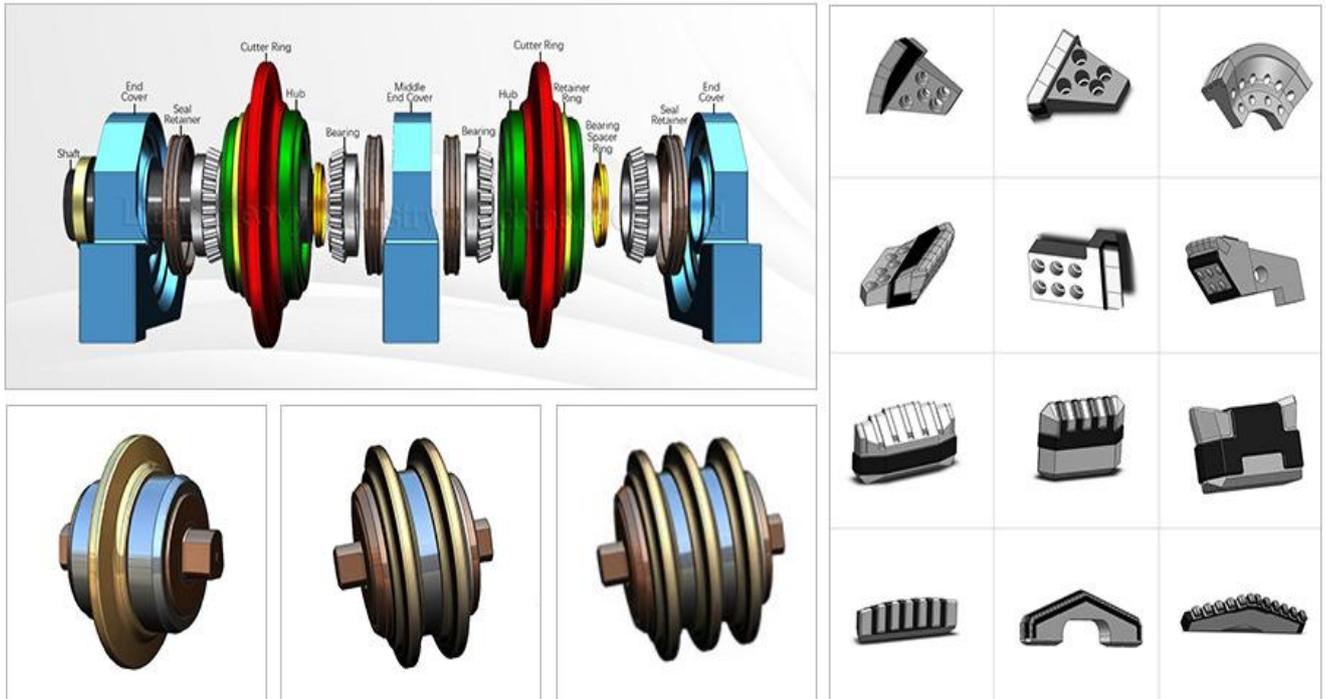
Top Hammer Drilling Tools

Product Specification

Drill Rod	Material	Structural Alloy Steel
	Thread	R22, R25, R28, R32, R35, R38, T38, T45, T51, GT60, ST58, ST68
	Rod Type	Extension rod, Drifter rod, MF rod, MF Drifter rod, Guide tube, Drill Tube
	Body Type	Round rod, Hexagonal rod
	Diameter	20mm~87mm
	Length	260mm~6400mm
Shank Adapter	Material	Structural Alloy Steel
	Applicable rock drill	Atlas Copco, Sandvik, Tamrock, Furukawa, Ingersoll-Rand, Montabert, Boart LongYear, etc.
	Thread	R25, R28, R32, R35, R38, T38, T45, T51, GT60, ST58, ST68
	Shank Type	Male threaded shank adapter, Female threaded shank adapter
	Diameter	32mm~90mm
	Length	370mm~835mm
Coupling Sleeve	Material	Structural Alloy Steel
	Thread	R32, R35, R38, T38, T45, T51
	Coupling Type	Semi bridge Couplings, Full bridge Couplings, Crossover Couplings
	Diameter	44~72mm
	Length	150mm~255mm

TBM Cutters

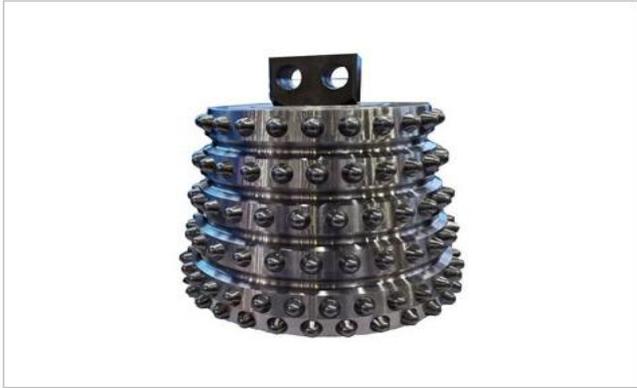
TBM Cutters Overview



TBM Cutters	
Material	Mold Steel + Tungsten carbide
Application	City subway tunnels, Diversion tunnels, Railway tunnels, Cable tunnels, etc.
Applicable Equipment	Tunnel boring machine, Shield machine, Pipe jacking machine, etc.
Applicable Brand	Herrenknecht, Wirth, Dcmag, Robbins, Jarva, Kawasaki, Mitsubishi, IHI, Komatsu, Lovat, STEC, CRCHI, CREG, etc
OEM & ODM	Acceptable
TBM Disc Cutters	
Other Names	TBM bits, TCI disc cutters, TBM disc roller cutters, TBM roller cutters, MTBM disc cutters
Cutter Type	Single disc cutter, Double disc cutter, Triple disc cutter, Twin disc cutter, Triplet disc cutter
Cutter Type (by position)	Face cutter, Gauge cutter, Center disc cutter
Cutter Structure	Assembly / Monoblock
Size	6" ~ 20" (150mm ~ 508mm)
Soft Ground Cutters	
Cutter Type	Scrapers, Cutting knives, Buckets, Rippers, etc.
Size	As required

Raise Boring Cutters

Raise Boring Cutters Overview



Raise Boring Cutters	
Material	Mold Steel + Tungsten carbide
Cutter Type	Kerf cutters, Rowed cutters, Random cutters (RCD cutter)
Size	7" ~ 17" (178mm ~ 432mm)
Button Shape	Chisel inserts, Conical inserts, Spherical inserts
Rows	3-ROW, 4-ROW, 5-ROW, 6-ROW, 8-ROW
Adaptive rocks	Sandstone, Limestone, Granite, Basalt, etc
UCS (uniaxial compressive strength)	30Mpa ~ 200Mpa
Applicable rock hardness	F6 ~ F18
Application	Raise boring, Blind boring, Horizontal boring, Down boring; Shaft boring; Reverse circulating drilling.
	Ore passes, ventilation raises, connection shafts for mining, penstocks for pump storage power plants, headrace shafts, drill tunnels for cables, escape routes, sewage, etc .
Applicable Equipment	Raise Boring Rig, Boxhole Boring Machine, Boxhole Backreaming Machine, Reef Boring Machine, Shaft Boring Machine, Reverse Circulation Rig, etc
Applicable Brand	Herrenknecht, Robbins, Sandvik, Epiroc, Palmieri, etc.
OEM & ODM	Acceptable



WORKSHOP SHOW



葫芦岛力天重工机械有限公司

Litian Heavy Industry Machinery Co.,Ltd

Add: No. 6, Tongxin Road, Dayushan Pump Industry Park, Huludao, Liaoning Province, China

Tel: +86 0429-2269666

Mob:+86 18080948772

Website: www.litechtools.com

Email: litian@litechtools.com

