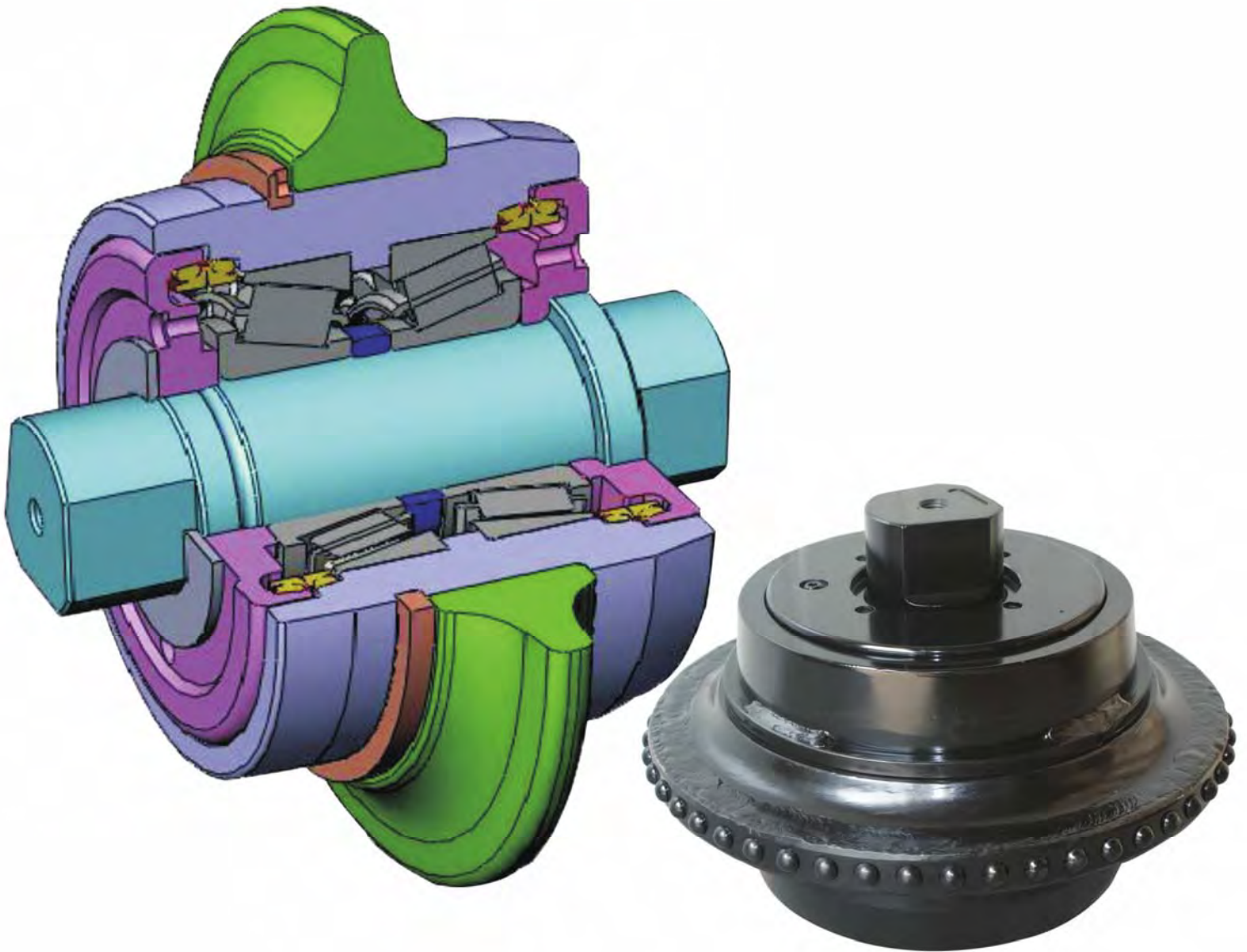




KEMAICO USA CORPOLATION

Engineering Cutter Tools





With rigorous design and rationally selected material, this product adopts several patented technology and is perfect in workmanship.

We have a whole variety of with specification varying from 13"-21".

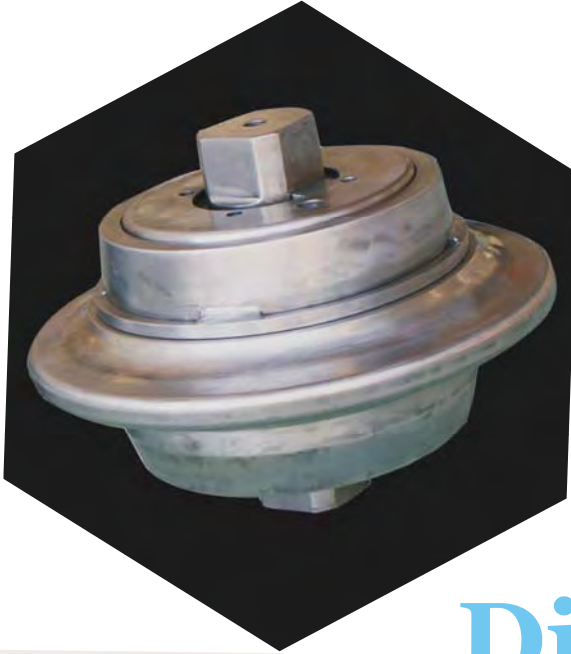
It is possible to be replaced by TBM and shield machine disc cutter from Wirth, Herrenknecht, Mitsubishi, Komatsu and NFM etc.

Imported TIMKEN bearing are equipped to ensure large load capacity and long life.

Imported or domestically famous sealings and imported lubricating oil are used to ensure reliable sealing performance.

Hobs can be applied in a wide range of rock strata (from 20 to 300Mpa).

Customerized hobs can be made to meet the requirement of the customers or in accordance to the construction stratum conditions.



Disc Cutter





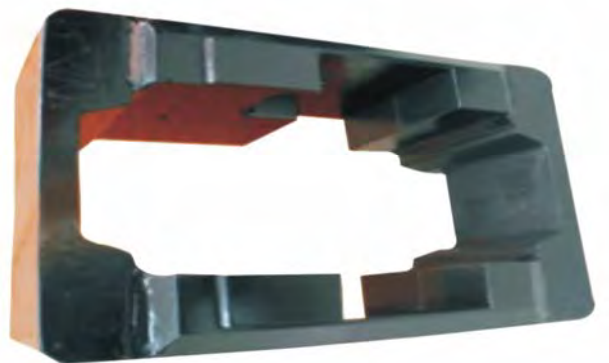
The manufacturing adopts patented technology with independent intellectual property rights. There are a variety of high-alloy steel cutter series, ball tooth cutter series , composite material cutter series, shown as in the following table.

Customerized tooth shape can be designed as per the rock strata conditions or the requirement of the customers.

It is possible to be replaced by cutters from **Wirth**, **Herrenknecht**, **Mitsubishi**, **Komatsu** and **NFM** etc.

Performance and application of 17"(cutters)

Item Number	Performance Index	Applicable Range
Heavy-duty steel cutter	HRC54-58	70-200Mpa hard rock strata
Common steel cutter	HRC52-56	20-100Mpa compound rock strata
Ball tooth cutter1	HRA86-87(alloy)	TBM、100-300Mpa hard rock strata
Ball tooth cutter2	HRA86.5-87.5(alloy)	20-100Mpa compound rock strata with great grind index

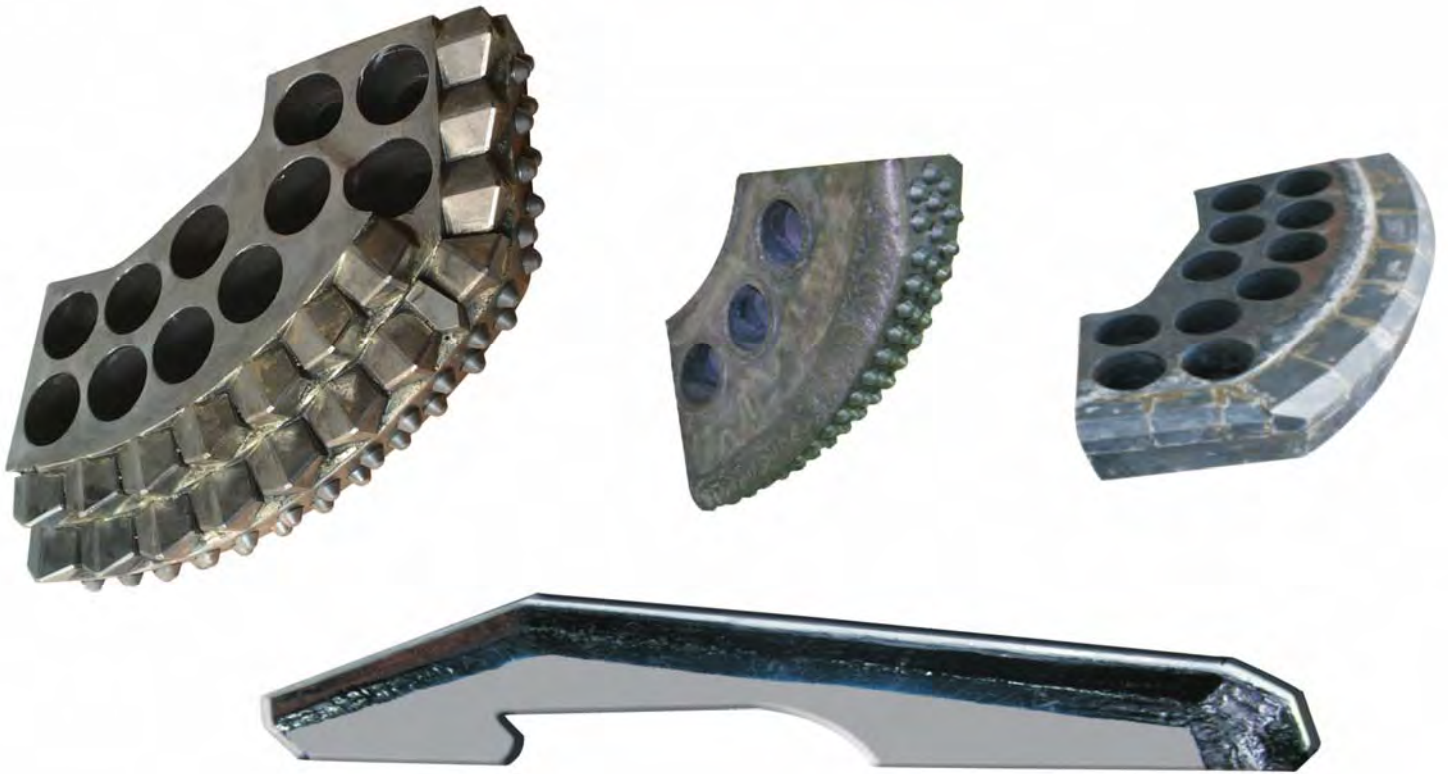


Hob Accessories

The products are manufactured with rigorous design, rationally selected material and advanced technology.

We can supply accessories and repair parts for disc cutter from different factories.

We can repair hobs and replace TIMKEN bearings, cutters and sealing for customers.



The hard alloy are of imported or home high-impact and high wear-resistant brands. The main brands are shown in the following table.

The cutter is made by high-performance air-quenching alloy steel with HRC40-50.

The key position of the cutter surface will be welded with 3-5mm wear-resisting layer.

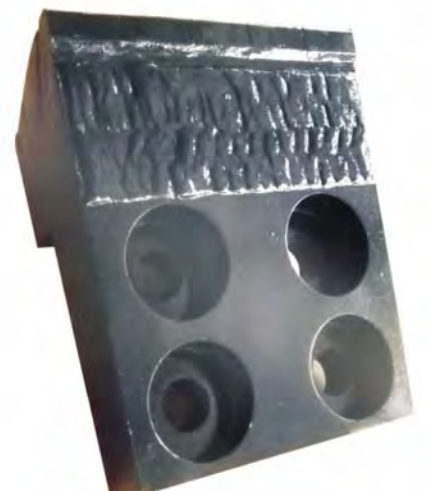
The hard alloy and the cutter will be joint with medium or high-frequency brazing or inlaying technology. Silver-base or copper-base alloy is used as welding flux.

We provide interchangeable scrapers and tooth cutter for the shield machine cutters between Herrenknecht, Mitsubishi, Komatsu, NFM and LOVAT etc.

Customized tooth cutters, tearing cutters and scrapers can be made to meet the requirement of the customers or in accordance to the strata conditions.

Brand and Performance of Common Hard alloy

Brand	Density(g/cm ³)	Hardness(HRA)	Bending Strength(N/mm ²)	Applicable Working Condition
YG10	14.4-14.6	87-87.5	≥2400	alloy for inlaying technology
YG11C	14.3-14.5	86.5-87.5	≥2500	soft-soil and fine-sand strata
YG13C	14.1-14.3	86-87	≥2600	pebbly sand strata
YG15C	14.0-14.2	85-86	≥2700	interbedding layer





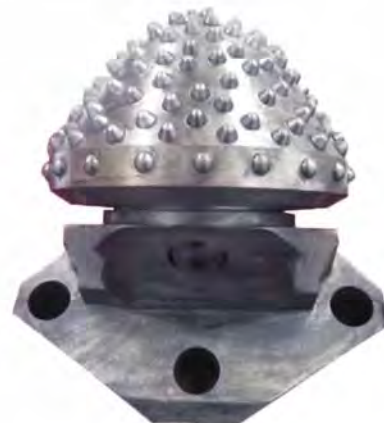
Ball teeth hobs and supporting the saddle knife seat and tank knife seat



Welding hobs and supporting the saddle knife seat and tank knife seat



Welding center hobs



Ball teeth center hobs

6",8",12" series of ball gear hob, welding gear hob, gear hob alloy steel, suitable for saturated uniaxial compressive strength of rock in the 10-20Mpa to use, large load capacity, long life, sealed reliable performance characteristics.



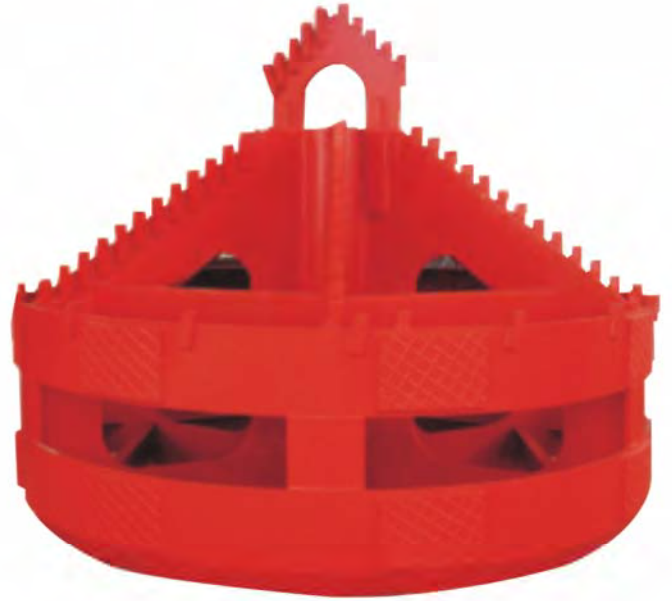
12" inlaid hob tooth carbide for mining underground excavation large section of the courtyard and the slide works well for 80Mpa-180Mpa uniaxial compressive strength of rock, with rock good effect, good abrasion resistance and long service life.

Drill cutters

According to the user's requirements ,to produce various drill bits or the cutters



φ8.3m full section shaft hob drill bit



φ3m scraper drill bit



φ3.5m full section shaft ball hob drill bit



φ3.5m full section shaft welding hob drill bit



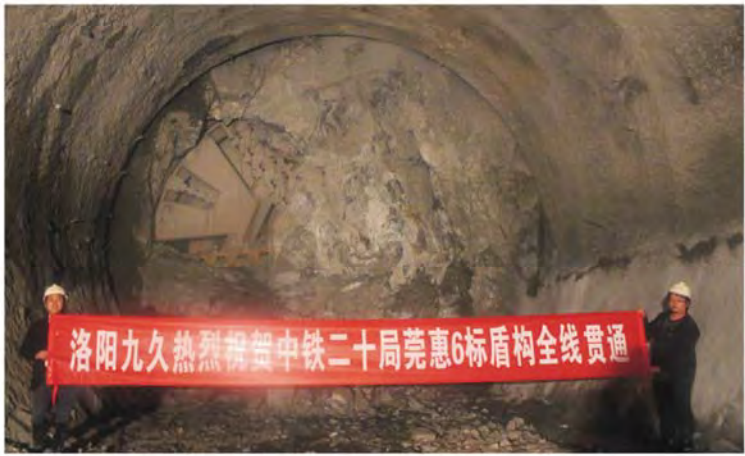
Export the drill bit



φ2m mine drill bit



Shield Tunnel Boring Machine used on Shanghai subway



Shield machine tool in the Guanhui 6 marked soft hard gneiss strata through the tunnel



The cutting machine tool in Beijing metro line two,ten sand and gravel stratum



The shield machine tool in chengdu Metro Line 3 rich water sand gravel stratum.



Shield machine tools in shenzhen No.9101



Shield machine tool in Nanjing latitude three passing River Tunnel



φ4.5m pile bit of the Pingtan sea bridge, China



φ3.4m scraper drill bit be used on bridge site construction



φ6.3m combined drill bit Zunhua Wen Jia Zhuang



φ3.4m welding hob bit be used on bridge site construction



3° welding gear hob drill bit be used on the building site



Ball gear hob drill bit on the building site of Hong Kong

"Globe Drilling Industry Experts"

No matter what kinds of soft rock, loose-medium rock, hard rock and any other special formations, just tell us what you need, our special tailored service is waiting for you upon your demand.



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