



STRIVE TO BE THE BEST

—UNIMATE MOTTO



Drillmaster Engineering Technology Co.,Ltd

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Drill Bits

Company profile



Better bits, faster drilling.



Hunan Drillmaster Engineering Technology Co.,Ltd is a leading solution provider for foundation engineering. As the main enterprise entity, Drillmaster has three subsidiary companies respectively undertaking functions of fabrication and R&D.

We have two brands: "Unimate" and "Unidrill". "Unimate" brand for drilling tools products (segmental casings, drilling buckets, drilling bits etc.), "Unidrill" brand for kelly bars.

DRILLMASTER's main products include: kelly bars, drilling buckets & augers, drilling bits, casings, tremie pipe, desander, casing rotator and pile breaker, etc.

Better bits, faster drilling .

As the very important wearing parts, "UNIMATE" workshop produces full range of drilling bits and holders, such as B47K type (carbide tips from 17.5mm, 22mm, 26mm, 30mm to 34mm), C31HD, Flat Teeth 25TL, 18TL, BFZ80, BFZ72 series and Roller Bits.

Unimate drilling bits adopt the high quality carbide and steel, with complete heat treatment process, metallographic examination, hardness test and strict quality control under quality management systems, which makes our drilling bits have higher drilling efficiency for various soil formation and hard rock drilling, long life and less replacement time.

Improving the foundation construction technology as our mission, and by depending on a group of excellent R&D teams with years of experience in foundation engineering and construction design, our drilling bits have reached in advanced level in terms of technology and quality in China.

Now, our drilling bits have been exported to over 50 countries and regions such as the U. S, the European countries, South Asia, Australia, Middle East, etc.



High Quality Carbide & Steel Material

We use the high quality carbide and steel to guarantee drilling efficiency and long life.

Customizable

We customize the drilling bits according to your rock hardness and soil formation, and provide flexible solutions. Carbide tips from 17.5mm-30mm, body protection design with carbide beans or carbide strips.

Heat treatment process and welding

According to quality management system, we have complete heat treatment process and welding technology, to guarantee drilling bit hardness.

Customer Service

Our team not only provides complete services for customer needs and special requirements, but also provides drilling bit solutions.

Quality Control

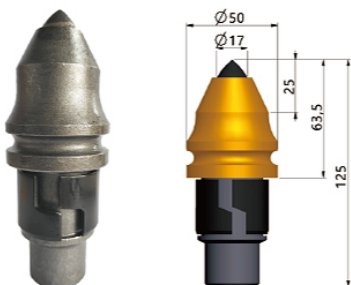
With metallographic examination, hardness test and strict quality control under quality management systems, our drilling bits have higher efficiency for various soil formation and hard rock drilling, long life and less replacement time.

Fast Delivery

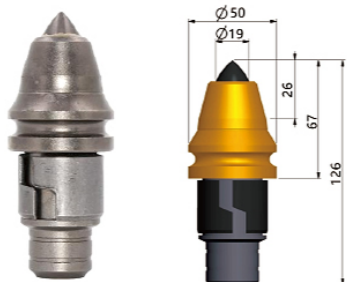
We have sold more than 500,000pcs of B47K, and we have stock and production capability to guarantee fast delivery.



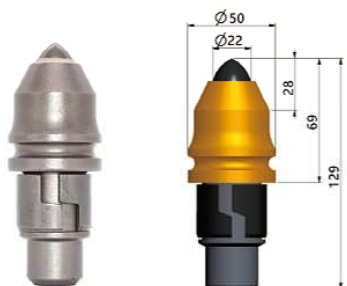
Φ 38/30mm Round Shank Chisel



Model Number	B47K17.5H
Carbide size	17*25mm
Application	Moderately weathered rock

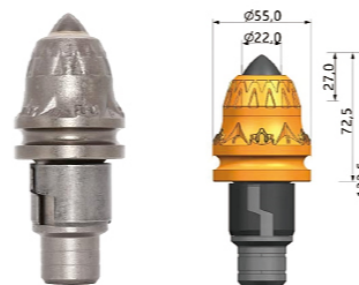


Model Number	B47K19H
Carbide size	19*26mm
Application	Moderately weathered rock

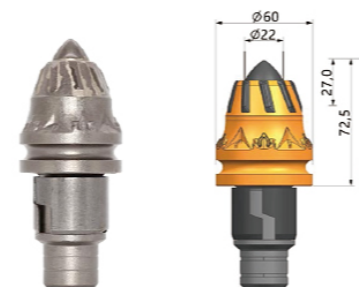


Model Number	B47K22H
Carbide size	22*28mm
Application	Moderately weathered rock

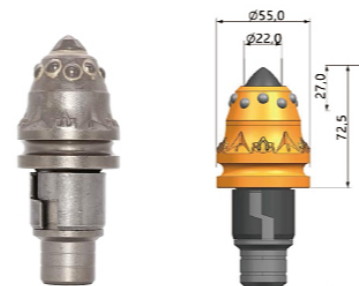
Φ 38/30mm Round Shank Chisel



Model Number	UMT55-2227
Carbide size	22*27mm
Application	Moderately weathered rock



Model Number	UMT955-2227
Carbide size	22*27mm
Application	Moderately weathered rock, Suitable for geology with tooth body wears out too fast

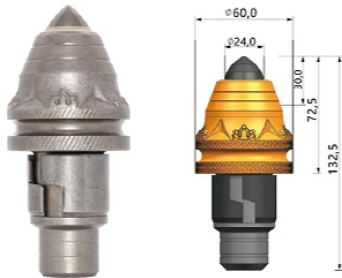


Model Number	UMT55-12K2227
Carbide size	22*27mm
Application	Moderately weathered rock, Suitable for geology with tooth body wears out too fast

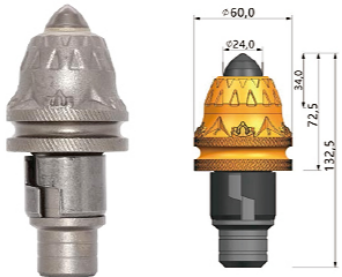


Model Number	UMT55-22S
Carbide size	22*28mm
Application	Moderately weathered rock

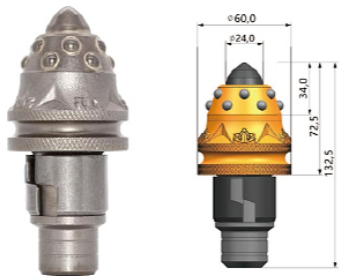
Φ 38/30mm Round Shank Chisel



Model Number	UMT60-24P
Carbide size	24*30mm
Application	Moderately weathered rock



Model Number	UMT60-24S
Carbide size	24*34mm
Application	Moderately and Slightly weathered rock

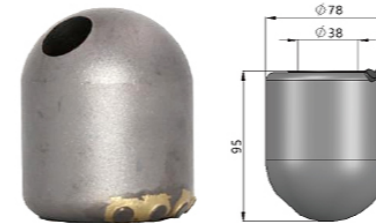


Model Number	UMT60-12K2434
Carbide size	24*34mm
Application	Moderately and Slightly weathered rock, Suitable for geology with tooth body wears out too fast

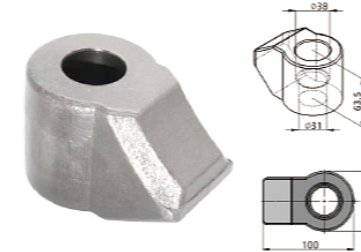


Model Number	UMT60-31S
Carbide size	31*36mm
Application	Moderately and Slightly weathered rock

Φ 38/30mm Round Shank Chisel

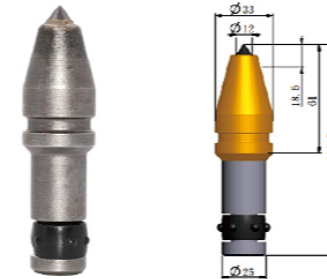


Model Number	B85/2
Application	Suitable for drilling teeth with shank size 38mm

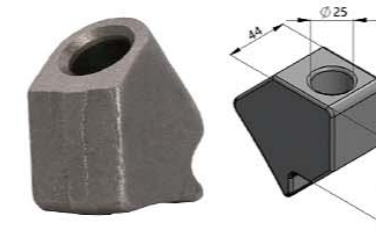


Model Number	B43H
Application	Suitable for drilling teeth with shank size 38mm

Φ 25mm Round Shank Chisel

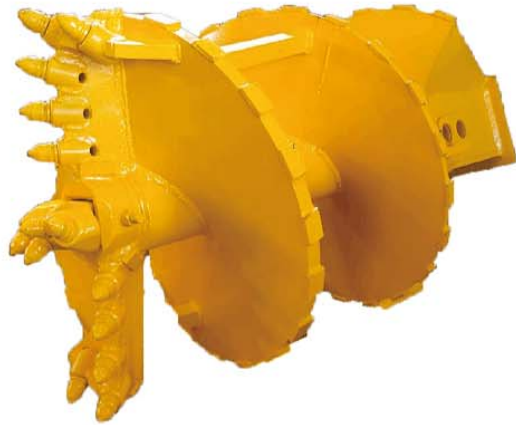


Model Number	C31HD
Carbide size	12*18.5mm
Application	Use on auger, small diameter, low-abrasive rock and frozen soil layers more

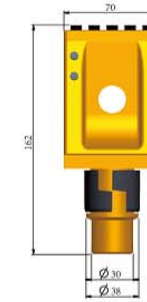


Model Number	C30
Application	Suitable for C31HD drilling teeth

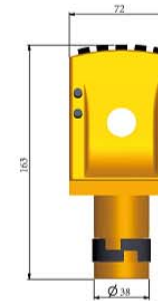
Cases



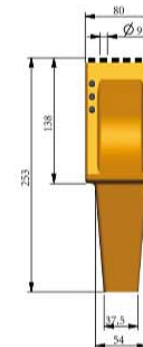
Flat Teeth



Model Number	BFZ70
Application	Suitable for soil layer, sand layer, loose gravel layer, soft pebbles, clay mudstone

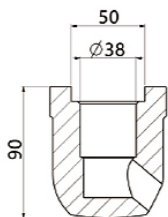


Model Number	BFZ72
Application	Suitable for soil layer, sand layer, loose gravel layer, soft pebbles, clay mudstone

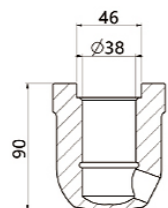


Model Number	BFZ80
Application	Suitable for soil layer, sand layer, loose gravel layer, soft pebbles, clay mudstone

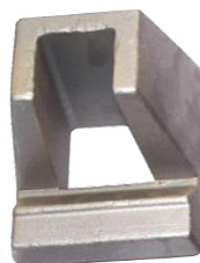
Flat Teeth



Model Number	BFZ70 Holder
Application	Suitable for soil layer, sand layer, loose gravel layer, soft pebbles, clay mudstone



Model Number	BFZ72 Holder
Application	Suitable for soil layer, sand layer, loose gravel layer, soft pebbles, clay mudstone

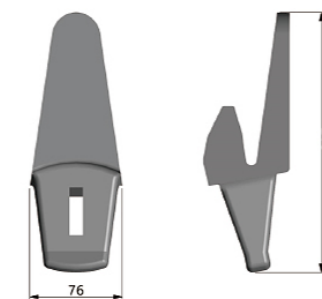
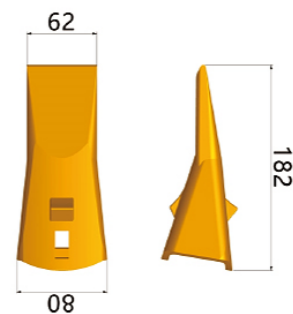


Model Number	BFZ80 Holder, Screw and Bolt
Application	Suitable for soil layer, sand layer, loose gravel layer, soft pebbles, clay mudstone

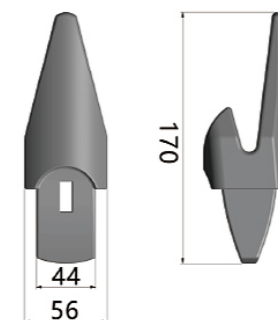
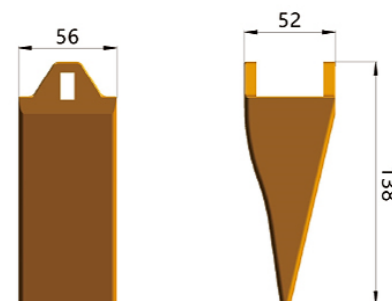
Flat Teeth



Model Number	25T
Application	Suitable for soil drilling bucket



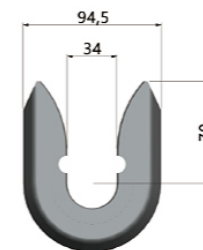
Model Number	18T
Application	Suitable for soil drilling bucket



Cases



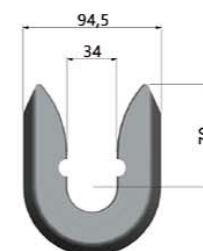
Replaceable Teeth



Model Number WS39

Application

Bauer standard quick-change tool, which can save replacement time, has a wide range of applications, and is suitable for soft to medium hardness casing construction.



Model Number WS46

Application

Bauer standard quick-change tool, which can save replacement time, has a wide range of applications, and is suitable for soft to medium hardness casing construction.

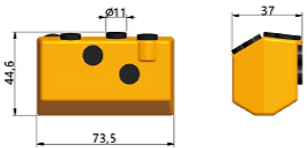
Weld-on Teeth



Model Number BA 70-38

Application

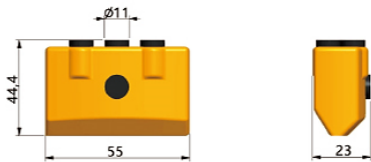
Casing welding bars are also irreplaceable casing teeth. Welding treatment can cope with heavy work load, excellent durability and wear resistance.



Model Number BA55-22

Application

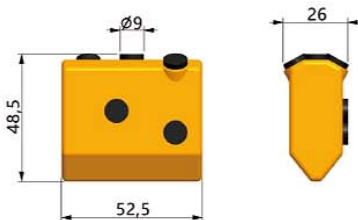
Casing welding bars are also irreplaceable casing teeth. Welding treatment can cope with heavy work load, excellent durability and wear resistance.



Model Number BA50-26.5

Application

Casing welding bars are also irreplaceable casing teeth. Welding treatment can cope with heavy work load, excellent durability and wear resistance.



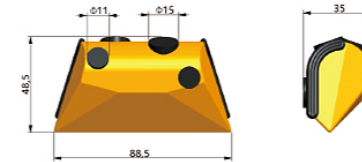
Weld-on Teeth



Model Number BA 90-35

Application

Casing welding bars are also irreplaceable casing teeth. Welding treatment can cope with heavy work load, excellent durability and wear resistance.



Model Number BA 90-42

Application

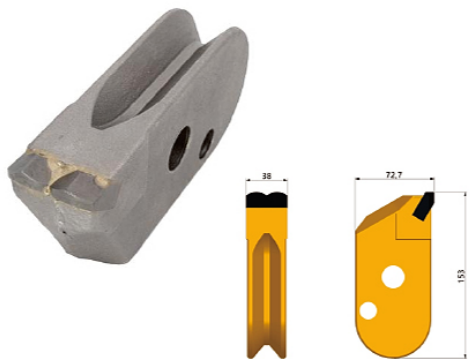
Casing welding bars are also irreplaceable casing teeth. Welding treatment can cope with heavy work load, excellent durability and wear resistance.



Cases



Diaphragm Wall Drilling Teeth



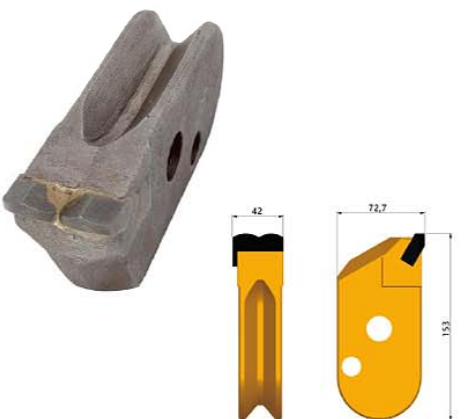
Model Number	SB38ZM
Description	Single Edge Middle Carbide Tooth
Application	

Standard trench cutters can be easily and quickly replaced to achieve the best performance in construction under harsh conditions.



Model Number	SB42ZR
Description	Right Carbide Tooth
Application	

Standard trench cutters can be easily and quickly replaced to achieve the best performance in construction under harsh conditions.



Model Number	SB42ZL
Description	Left Carbide Tooth
Application	

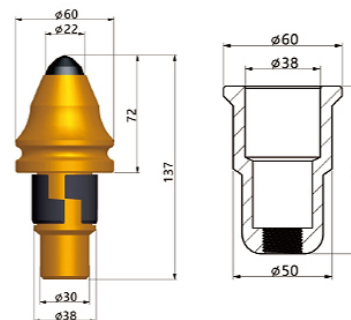
Standard trench cutters can be easily and quickly replaced to achieve the best performance in construction under harsh conditions.

Diaphragm Wall Drilling Teeth



Model Number	Diaphragm Wall Drilling Teeth
Carbide size	22*28mm
Application	

All kinds of unstable shale, tight marl, relatively strong sandstone, sandy shale, shale sandstone, and moderately weathered rock formations.



Cases



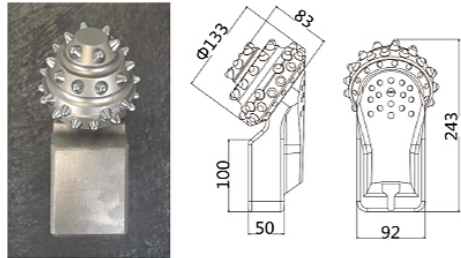
Weld-in Roller Bit

Optimized cutting structure and tooth placement

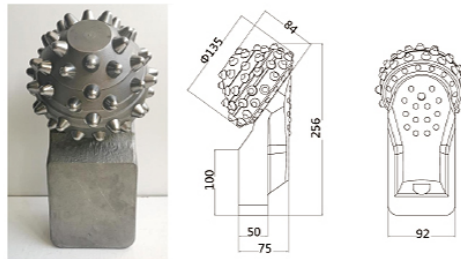
Special O-shaped rubber ring effectively prevent the wear of the bearing by the sand

Built-in bearing oil storage sac to longer use life

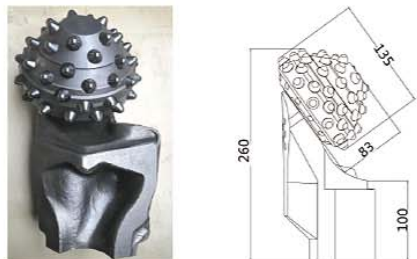
New practical and regular handle, easy to weld on core barrel.



Model	FL42J14CH
Size	8.5"
Applicable Rock Hardness	80-120Mpa
Recommended drilling pressure	200KN-350KN
Features	Body material: 15 MnNi4Mo (HRC60). Carbide material: SY11 (HRC88). Carbide : 42pcs * Φ14mm. Weight: 11.6kgs.



Model	FL55J14QH
Size	8.5"
Applicable Rock Hardness	80-200Mpa
Recommended drilling pressure	200KN-350KN
Features	Body material: 15 MnNi4Mo (HRC60). Carbide material: SY11 (HRC88). Carbide : 55pcs * Φ14mm. Weight: 12.5kgs.



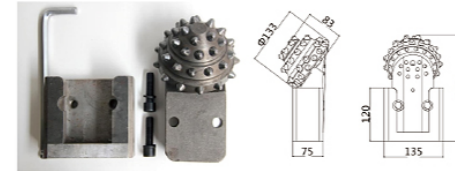
Model	FL55C14QH
Size	8.5"
Applicable Rock Hardness	80-200Mpa
Recommended drilling pressure	200KN-350KN
Features	Body material: 15 MnNi4Mo (HRC60). Carbide material: SY11 (HRC88). Carbide : 55pcs * Φ14mm. Weight: 13.8kgs.

Roller Bit with Holder

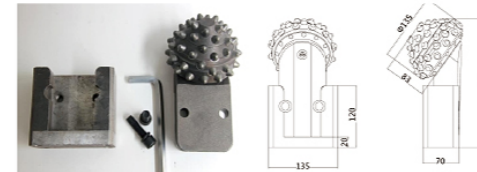
Detachable holder, more convenient replacement

Special O-shaped rubber ring effectively prevent the wear of the bearing by the sand

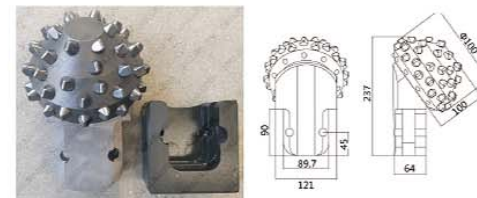
Built-in bearing oil storage sac to longer use life



Model	FL42Z14CX
Size	8.5"
Applicable Rock Hardness	80-120Mpa
Recommended drilling pressure	200KN-350KN
Features	Body material: 15 MnNi4Mo (HRC60). Carbide material: SY11 (HRC88). Carbide : 42pcs * Φ14mm. Weight: 16.0kgs.



Model	FL55Z14QX
Size	8.5"
Applicable Rock Hardness	80-200Mpa
Recommended drilling pressure	200KN-350KN
Features	Body material: 15 MnNi4Mo (HRC60). Carbide material: SY11 (HRC88). Carbide : 55pcs * Φ14mm. Weight: 17.0kgs.



Model	FL52Z17QX
Size	10"
Applicable Rock Hardness	80-120Mpa
Recommended drilling pressure	200KN-350KN
Features	Body material: 15 MnNi4Mo (HRC60). Carbide material: SY11 (HRC88). Carbide : 52pcs * Φ17mm. Weight: 22.6kgs.

Bolt-on Roller Bit



Model	8 ½ XW527
Size	8.5"
Applicable Rock Hardness	100-200Mpa
Recommended drilling pressure	200KN-350KN
Features	<p>Base material: Q355B Carbide material: SY11 (HRC88)</p> <p>3 roller bits as a set 1st : Carbide 53pcs * Φ14mm 2nd: Carbide 50pcs * Φ14mm 3rd: Carbide 49pcs * Φ14mm Unit Weight: 15.0kgs.</p>

Cases



DRILLMASTER

Headquarters

Drillmaster Engineering Technology Co.,Ltd

More than a drilling tools supplier, Drillmaster is a leading solution provider for foundation engineering. With decades of years' experience in the R&D, fabrication and sales of piling equipments: pile breaker, casing rotator, oscillator, drill bits, etc., Drillmaster has established a complete factory production system. Unimate, Unidrill and Fountech are subsidiaries of Drillmaster, respectively responsible for the R&D and production of different foundation engineering products.

Unimate Heavy Industry Co.,Ltd

With factory in Wuhan, China, 10 years of production experience, specializes in the production of drilling tools, casings and drilling accessories as well as the rent of drill rig and sales of used drill rig.

Unidrill Technology Co.,Ltd

Factories are located in Hebei and Wuhan respectively, mainly responsible for the production of Kelly Bars, Drill Tools and Desander, well known by its strict quality control.

Fountech Construction Machinery Co.,Ltd

With factory in Jiangsu, China, mainly responsible for the production and sales of micro drill rig and used drill rig.