

QUALITY AS THE FOUNDATION
INTEGRITY AS THE PRINCIPLE.



WeChat Official Account

GUANKEY MINING PRODUCTS CATALOG

MINE SUPPORT / MINING EQUIPMENT / MINING DRILL

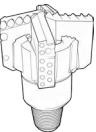
▪ Mining support systems



▪ Mining equipment



▪ Mining drilling



SHANXI GUANGKAI MACHINERY TECHNOLOGY CO., LTD.



Telephone
4001032690 / 0353-5030222



Email
YQGK2012@163.com



Mobile Phone
+8613935358852



Address
Baiquan Industrial Park, suburbs of
Yangquan City, Shanxi Province





CONTENTS

01.About Company	P01-02
02.Corporate Culture	P03-04
03.Company Honors	P05-06
04.Certificates	P07-08
05.Qualifications & Patents	P09-10

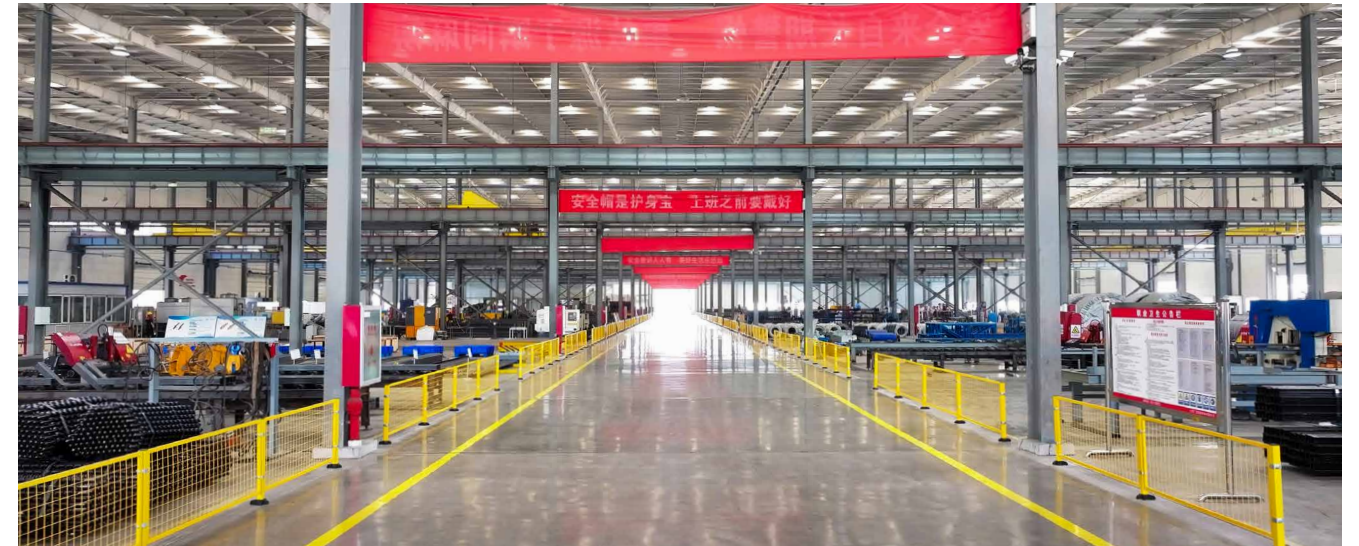
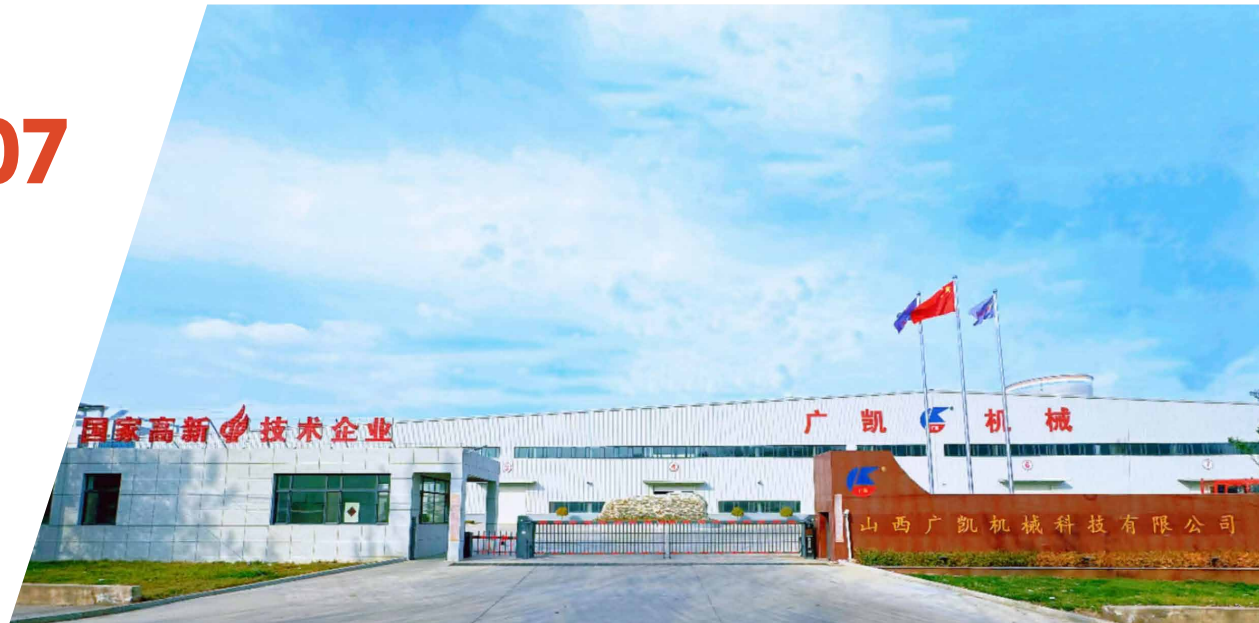
06.Safety Certificates For Mining Products	P11-12
07.Maintenance Qualification Certificate	P13-14
08.Core Productivity – Production Equipment	P15-20
09.Company Products	P21-110
10.Domestic Offices	P111
11.After-Sales Service	P112



ABOUT COMPANY

Founded in

2007



Standard factory building

35000 m²

Employees

200 +

Advanced production equipment

200 +

Company Scale and Hardware Strength

- Factory Area and Team:** The company covers an area of 155 mu (approximately 10 hectares) and has 35,000 square meters of standard factory buildings; it currently has over 200 employees, including 30 professional technicians and 11 senior managers.
- Production Equipment:** Equipped with over 200 sets of advanced production equipment, including over 50 sets of core equipment such as automated CNC production lines and vacuum heat treatment equipment.
- Business Performance:** Annual operating revenue reaches over 300 million RMB, with products covering more than 30 mining areas and over 200 coal mines nationwide.

Core Product System

The company's products focus on the mining field, mainly including:

- Mining Support Products:** Mining anchor cables, anchorages, non-ribbed threaded steel resin anchor bolts, equal-strength threaded steel resin anchor bolts, twisted resin anchor bolts, steel strips, mining metal mesh, various pallets, metal roof beams, etc.
- Mining Drilling Products:** Cutting teeth, diamond composite anchor bolt bits, coreless drill bits, coring drill bits, opening and closing drill bits, sintered drill bits, scraper drill bits, cemented carbide drill bits, coal and rock drill bits, pneumatic drill bits, and various drill rods such as coal drill rods and anchor rods.
- Mining Machinery Products:** Explosion-proof electric oil pumps, pneumatic oil pumps, manual oil pumps, mining anchor cable tensioning booster pumps, tensioning jacks, anchor release devices, hydraulic cutters, anchor bolt tension gauges, etc.

**Quality First Integrity Foremost,
Technological Innovation Pursuit of Excellence**

Shanxi Guangkai Machinery Technology Co., Ltd.

Shanxi Guangkai Machinery Technology Co., Ltd., founded in 2007, is located in Baiquan Industrial Park, Yangquan City, Shanxi Province, the largest anthracite coal production base in China. We are a professional manufacturer of mining support equipment, drilling tools, and conveyor systems.



CORPORATE CULTURE

There is an enterprise called Direction
There is a company called Spirit
There is a unit called Strength

Employees of Guangkai
With high-spirited melodies
Passionate rhythms resound in the winter
Facing wind and rain, smiling at the vast sea

The torrent of Guangkai
Surges forward amid economic crises
Hard sweat glistens in the sun
Years gather our strength
Facing the morning sun, we fly our ideals

The arms of Guangkai
Fly among the vast enterprises
The future is a rainbow path
We cultivate in the beautiful garden

The flag of Guangkai
Flutters on the path of progress
The flag guides our direction

We work hard together with all our hearts
To build Guangkai into a more brilliant future...

TAKE QUALITY AS LIFE

TAKE INTEGRITY AS FOUNDATION

「INTEGRITY LEADS」 THE WORLD



COMPANY HONORS

Enterprise Certification

- High-tech Enterprise
- Specialized and innovative enterprises
- Shanxi Provincial Enterprise Technology Center
- National Green Factory
- Shanxi Provincial Doctoral Innovation Station
- High-Tech Leading Enterprise of Yangquan City
- Demonstration Enterprise for Transformation of Scientific and Technological Achievements of Yangquan City
- Standing Council Member Unit of the Drill Steel & Drill Tools Branch, China Steel Structure Association
- Internship & Training Base





Enterprise Credit Rating Certificate

3A Integrity Supplier	3A Integrity Management Demonstration Enterprise	3A Service-Focused and Trustworthy Enterprise
3A Quality-Focused and Trustworthy Enterprise	Enterprise Credit Rating Certificate	Enterprise Credit Rating Certificate
After-Sales Service Integrity Demonstration Enterprise	Quality and Service Integrity Enterprise	Contract-Abiding and Trustworthy Enterprise



CERTIFICATION

Management System Certification

- Certified with ISO 9001 Quality Management System, Environmental Management System, Occupational Health and Safety Management System, and Energy Management System.



QUALIFICATION PATENT CERTIFICATE

Invention Patents 12

A feeding and conveying mechanism for diamond cutting tool production

A high-speed grinding and repair device for diamond composite cutting tools

A diamond drill bit that is easy to disassemble and replace

A diamond drill bit with chip removal function

A diamond drill bit with a fixed buffer mechanism

An adaptive vibration suppression method for diamond cutting tools based on fuzzy control algorithm

Anchor cable prestress control device and its usage method

A rock and soil layer anti-backward anchor bolt for mining

A top beam and hydraulic support and its usage method

A mine roadway support device

A hot-rolled thin Manufacturing Method of Cast Steel Strip

A Pallet Clamping Assembly Line Device



Utility Model Patents 12

Automatic Device for Precision Machining of Outer Cone Clamping Plates

Polycrystalline Diamond High Wear-Resistant Cutting Teeth

A High-Strength Prestressed Anchor Cable Pallet

A Forming Machine for Production of Reinforced W-Shaped Steel Strips

A Reinforced Ribbed Steel Mesh

An Anchor Bolt Connection Lifting Device

Automatic Feeding and Tapping Machine

A Flexible Support Steel Strip for Temporary Support in Coal Mines

A Sealed High-Strength Anchor Cable Drill Rod

A Collapsible Anchor Cable for Soft Rock Roadways in Coal Mines

A Coal Mine Underground Anchor Cable Suspension Connection Tool

An Anchor Cable Link Lifting Device



MINING PRODUCT SAFETY MARK CERTIFICATE

Safety Certification No.	Product Name	Product Model
MEF100314	Twisted Type Resin Bolt Steel Bar	MSGM-235/16、18、20、22
MEF220379	Equal-Strength Deformed Steel Resin Bolt Bar	MSGLD-335/16、18、20、22
MEF220378	Equal-Strength Deformed Steel Resin Bolt Bar	MSGLD-400/16、18、20、22
MEF220380	Equal-Strength Deformed Steel Resin Bolt Bar	MSGLD-500/16、18、20、22
MEF100315	Non-Longitudinal Ribbed Deformed Steel Resin Bolt Bar	MSGLW-335/16、18、20、22
MEF160254	Non-Longitudinal Ribbed Deformed Steel Resin Bolt Bar	MSGLW-400/18、20、22
MEF160253	Non-Longitudinal Ribbed Deformed Steel Resin Bolt Bar	MSGLW-500/18、20、22
MEF230940	Mining Anchor Cable	SKL18-1/1860
MEF230942	Mining Anchor Cable	SKL19-1/1860
MEF230941	Mining Anchor Cable	SKL22-1/1770
MEF230943	Mining Anchor Cable	SKL22-1/1860
MEF220381	Mining Anchor Cable	SKP19-1/1860
MEF140397	Mining Anchor Cable	SKP22-1/1860
MEF220382	Mining Anchor Cable	SKP29-1/1860
MEF240993	Mining Anchor Cable	SKP35-1/1770
MEF110272	Mining Anchor Cable Anchorage	KM15-1860
MEF160141	Mining Anchor Cable Anchorage	KM15-1860(Q)
MEF110271	Mining Anchor Cable Anchorage	KM18-1860
MEF160143	Mining Anchor Cable Anchorage	KM18-1860(Q)
MEF170236	Mining Anchor Cable Anchorage	KM19-1860
MEF160142	Mining Anchor Cable Anchorage	KM19-1860(Q)
MEF110270	Mining Anchor Cable Anchorage	KM22-1770
MEF160139	Mining Anchor Cable Anchorage	KM22-1770(Q)
MEF130326	Mining Anchor Cable Anchorage	KM22-1860

MEF160140	Mining Anchor Cable Anchorage	KM22-1860(Q)
MEF130325	Mining Anchor Cable Anchorage	KM29-1670
MEF190431	Mining Anchor Cable Anchorage	KM29-1860
MEF240994	Mining Anchor Cable Anchorage	KM35-1770
MEF230989	Resin Bolt Cartridge	MSCKa
MEF230987	Resin Bolt Cartridge	MSCKb
MEF230985	Resin Bolt Cartridge	MSK
MEF230988	Resin Bolt Cartridge	MSM
MEF230986	Resin Bolt Cartridge	MSZ
CMAC11252569	Mining Anchor Cable Tensioning Jack	MD15-300/63
CMAC11252554	Mining Anchor Cable Tensioning Jack	MD18-300/63
CMAC11252564	Mining Anchor Cable Tensioning Jack	MD18-350/63
CMAC11252562	Mining Anchor Cable Tensioning Jack	MD18-400/63
CMAC11252556	Mining Anchor Cable Tensioning Jack	MD19-300/63
CMAC11252567	Mining Anchor Cable Tensioning Jack	MD19-350/63
CMAC11252637	Mining Anchor Cable Tensioning Jack	MD19-400/63
CMAC11252638	Mining Anchor Cable Tensioning Jack	MD22-300/63
CMAC11252639	Mining Anchor Cable Tensioning Jack	MD22-350/63
CMAC11252555	Mining Anchor Cable Tensioning Jack	MD22-400/63
CMAC11252570	Mining Anchor Cable Tensioning Jack	MQ15-300/63
CMAC11252565	Mining Anchor Cable Tensioning Jack	MQ18-300/63
CMAC11252561	Mining Anchor Cable Tensioning Jack	MQ18-350/63
CMAC11252568	Mining Anchor Cable Tensioning Jack	MQ18-400/63
CMAC11252563	Mining Anchor Cable Tensioning Jack	MQ19-300/63
CMAC11252558	Mining Anchor Cable Tensioning Jack	MQ19-350/63
CMAC11252566	Mining Anchor Cable Tensioning Jack	MQ19-400/63
CMAC11252560	Mining Anchor Cable Tensioning Jack	MQ22-300/63
CMAC1125255	Mining Anchor Cable Tensioning Jack	MQ22-350/63
CMAC11252559	Mining Anchor Cable Tensioning Jack	MQ22-400/63
MEE170119	Metal Roof Beam	DFB(1200-4400 Standard)/300
MEE170118	Metal Roof Beam	DFB(4500、4600、4700、4800、4900、5000)/300

MAINTENANCE

QUALIFICATION CERTIFICATE

Detailed List of Mining Equipment Maintenance Qualifications - Guangkai Machinery

Certificate No.	Equipment (Product) Name	Valid Until
MJX(2024)7199	Belt Conveyor for Coal Mine	2029.11.10
MJX(2024)7200	Drum Lagging for Belt Conveyor	2029.11.10
MJX(2024)7201	Belt Repair and Joint Vulcanization for Belt Conveyor	2029.11.10
MJX(2024)7202	Belt Loader for Coal Mine	2029.11.10
MJX(2024)7203	Scraper Conveyor	2029.11.10
MJX(2024)7204	Stage Loader for Gate Roadway	2029.11.10
MJX(2024)7205	Crusher for Gate Roadway	2029.11.10
MJX(2024)7206	Crawler Loader-Crusher for Coal Mine	2029.11.10
MJX(2024)7207	Coal Classifying Crusher	2029.11.10
MJX(2024)7208	Sprocket Assembly	2029.11.10
MJX(2024)7209	Mining Reducer	2029.11.10
MJX(2024)7210	Electric Drum	2029.11.10
MJX(2024)7211	Fluid Coupling	2029.11.10
MJX(2024)7212	Friction Coupling	2029.11.10
MJX(2024)7213	Friction Torque Limiter	2029.11.10
MJX(2024)7214	Magnetic Torque Limiter	2029.11.10

MJX(2024)7215	Feeder	2029.11.10
MJX(2024)7216	Scraper Loader	2029.11.10
MJX(2024)7217	Hydraulic Scraper Loader for Coal Mine	2029.11.10
MJX(2024)7218	Mining Anchor Cable Tensioning Jack	2029.11.10
MJX(2024)7219	Mining Anchor Cable Anchor Withdrawer	2029.11.10
MJX(2024)7220	Bolt (Cable) Tension Meter for Coal Mine	2029.11.10
MJX(2024)7221	Multistage Centrifugal Pump for Coal Mine	2029.11.10
MJX(2024)7222	Mining Flameproof Submersible (Sewage) Pump ≤ 132kW	2029.11.10
MJX(2024)7223	Slurry Pump	2029.11.10
MJX(2024)7224	Mining Mud Pump	2029.11.10
MJX(2024)7225	Coal Water Pump	2029.11.10
MJX(2024)7226	Coal Seam Water Injection Pump	2029.11.10
MJX(2024)7227	Mining Pneumatic Submersible Pump	2029.11.10
MJX(2024)7228	Mining Pneumatic Dredging Sewage Pump	2029.11.10
MJX(2024)7229	Mining Pneumatic Diaphragm Pump	2029.11.10
MJX(2024)7232	Valve for Mining Single Hydraulic Prop	2029.11.10
MJX(2024)7230	Local Ventilator for Coal Mine	2029.11.10
MJX(2024)7231	Mining Single Hydraulic Prop	2029.11.10
MJX(2024)7233	Mining Flameproof Three-Phase Asynchronous Motor ≤ 800kW	2029.11.10

1 Anchor Agent Equipment



1 set of dual-speed anchor agent production line.
Capacity: Annual production capacity of 5,000,000 sets of anchor agents.

2 Anchor Bolt Production Equipment



Capacity: Annual production capacity of 3,000,000 sets of anchor bolt products

3 Anchor Cable Equipment



3 sets of automatic cutting production lines for mine anchor cables
Capacity: Annual production capacity of 25,000 tons of mine anchor cables

4 Anchor Device Equipment



2 sets of hot forging production lines



1* high-speed circular saw

CORE PRODUCTIVITY -PRODUCTION EQUIPMENT



12* CNC band sawing machines



35* CNC lathes



12* CNC drilling machines



2 sets of CNC grinding machines

5 Pallet and Steel Guard Plate Equipment



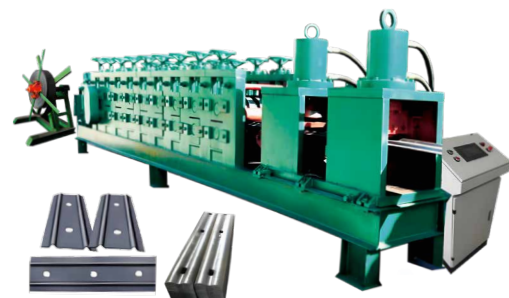
2 sets of hydraulic shearing machines

Capacity: Annual production capacity of 5,000,000 pieces of anchor cable pallets and 5,000,000 pieces of anchor bolt pallets



6 sets of four-column hydraulic presses

6 W Steel Band Machine Equipment



3 sets of W steel band machines
Capacity: Annual production capacity of 3,000,000 meters of W steel bands

7 Reinforced Trapezoidal Beam (Reinforced Steel Band) Equipment



3 sets of automatic welding manipulators

9 U-shaped Shed Equipment



1 set of U-shaped steel bending machine



8 Metal Mesh Equipment



6 sets of 3.2m wide intelligent diamond mesh machines



6 sets of 1.5m wide warp and weft mesh machines



4 sets of 1.5m wide reinforced mesh machines

Capacity: Total annual production capacity of various types of metal meshes up to 5,000,000 square meters

10 Metal Top Beam Equipment



5 sets of metal top beam assembly and welding production lines

11 Pick Equipment



1 set of steel stirrup bending machine



1 set of bending machine



2 sets of pick production lines
Capacity: Annual output of 200,000 pieces

12 Drill Bit Equipment



Capacity: Annual output of 200,000 pieces

4 sets of high-frequency induction heating DD-45



6 sets of high-frequency induction heating DD-25JQ



Drill bit production lines
Capacity: Annual output of 200,000 pieces

13 Drill Rod Equipment



35* CNC lathes



4* CNC whirlwind milling machines

Capacity: Annual output of 200,000 pieces

14 HEAT TREATMENT EQUIPMENT



Controlled Atmosphere Sealed Box-Type Multi-Purpose Furnace



Tabletop Furnace (3 units)

Specifications:
1500*100*650mm
6000*500*200mm
6000*2000*1200 mm



Pushrod Furnace



Pit Furnace



Mesh Belt Furnace



Nitriding Furnace

CONTENTS

COMPANY PRODUCTS

01.Resin Anchoring Agent Series P25

Resin Anchoring Agent P25

02.Anchor Bolt Series P26-30

Non-longitudinal rib threaded steel resin rock bolt P26
Equal-Strength Ribbed Rebar Resin Bolt P27
Twisted Resin Bolt P28
Split Set Rock Bolt P29
Hollow Grouting Rock Bolt P30

03.Mining Anchor Series P31-33

Mining Anchor Cables P31
Mining Cage-Type Anchor Cables P32
Hollow Anchor Cables P33

04.Mining Agitator Series P34-35

Mining Anchor Cable Agitators P34
Anchor Bolt Agitators P35

05.Fall Protection Series P36

Anchor Cable Fall Protection Devices P36

06.Mining Anchor Cable & Anchorage Series P37

Mining Anchor Cable & Anchorage General Series	P37
Mining Anchor Cable & Anchorage Q Series	P37

07.Tray Series P38-40

Anchor Bolt Tray	P38
Anchor Cable Tray	P39
Mining Steel Protective Plate	P40

08.Self-aligning Ball & Pressure Relief Ring Series P41-42

Self-aligning Ball Pad	P41
Pressure Relief Ring	P42

09.Steel Strip Series P43-45

Mining W & M Type Steel Strip	P43
Mining Trapezoidal Steel Strip	P44
Mining T-shaped Steel Strip	P45

10.Metal Mesh Series P46-48

Mining latitude and longitude grid	P46
Mining diamond mesh	P47
Reinforced Welded Mesh	P48

11.Support Shed Series P49-50

U-shaped Shed (Mining Roadway Support)	P49
Trapezoidal Shed (Mining Roadway Support)	P50

12.Support Shed Accessories Series P51

UU-shaped Clamp	P51
-----------------	-----

13.Hook Series P52

Cable Hook	
Single Cable Hook	P52
Double Cable Hook	P52

CONTENTS

14.Metal Roof Beam Series

P53-55	Metal Hinged Roofing Beam	
	Mining Single-Plate Roofing Beam DJB	P53
	Mining Cross-Hinged Roofing Beam DJBZ	P54

	Metal Long Roofing Beam	
	Metal Roofing Beam DFB	P55
	Reinforced Protective Plate Metal Roofing Beam DFB	P55

15.Single Hydraulic Prop Accessory Series

P56-58	Metal Roofing Beam Column Shoe	
	Iron Column Shoe	P56
	Polymer Column Shoe	P57
	Single Hydraulic Support Anti-tipping Device	P58

16.Machine series

P59-76	Mining Anchor Cable Tensioning Equipment	
	MD Series	P59
	MQ Series	P60
	MS Series	P61

	Jacks	
	Mining Anchor Cable Tensioning Jacks	P62
	Anchor Cable Removal Device	P63
	TS Anchor Cable Removal Device	P64

	Cutter	
	Prestressed Extrusion Machine	P65
	Rebar Extrusion Connector	P66
	Steel Strand Hydraulic Cutter	P67
	Hydraulic Nut Cutter	P68
	Hydraulic Anchor Ring Cutter	P69

	Force Gauge	
	LDZ Type Anchor Bolt Force Gauge	P70
	Anchor Cable Force Gauge	P71

	Force Meter	
	Mining Anchor Cable/Anchor Bolt Force Meter	P72
	Mining Intrinsically Safe Anchor Bolt (Cable) Force Meter	P73

	Connecting Machine	
	Mining Anchor Mesh Connecting Machine	P74

17.Cutting Tooth Series

	Air Pick	P75
	Multiplier	P76
P77-82	Coal Mining Machine Cutting Tooth - Coal Mining Tooth Series	P77
	Coal Mining Machine Cutting Tooth - Cutting Tooth	P78
	Tunneling Machine Cutting Tooth - Tunneling Tooth Series	P79
	Cutting Tooth Accessories - Tooth Shoe Series	P80
	Cutting Tooth Accessories - Tooth Seat Series	P81
	Polycrystalline Diamond Cutting Tooth	P82

18.Drill Bit Series

P83-95	PDC Anchor Bolt Drill Bit - Ordinary/Integral/Ultra-Strong Full-Slab White Sandstone	P83-85
	Concave PDC Drill Bit (Steel Body/Sintered Body)	P86
	PDC Geological Core Drill Bit	P87
	PDC Reaming Drill Bit	P88
	Scraper Drill Bit	P89
	PDC Opening and Closing Drill Bit	P90
	Anti-Outburst Drill Bit	P91
	Coal and Rock Drill Bit	P92
	Pneumatic Drill Bit	P93-95

19.Drill Rod Series

P96-110	Anchor Cable Drill Rod	P96
	Bolter Drill Rod	P97
	Coal Drill Rod	P98
	Pneumatic Drill Rod	P99-100
	Cable Directional Drill Rod	P101
	Reaming Directional Drill Rod	P102
	Non-Magnetic Drill Rod	P103
	High-Pressure Sealed Drill Rod	P104
	Drilling Drill Rod	P105
	Auger Drill Rod	P106
	Drill Rod Accessories	
	Drill Bit Connector	P107
	Drill Rod Connector	P108
	Coal Drill Tail	P109
	Water Injector	P110

Resin Anchor Agent Series

RESIN ANCHOR AGENT

Two-component cartridge adhesive based on unsaturated polyester resin. Features fast curing and high anchoring force. Suitable for rock bolts, widely used in mine support, tunnel support and building reinforcement.



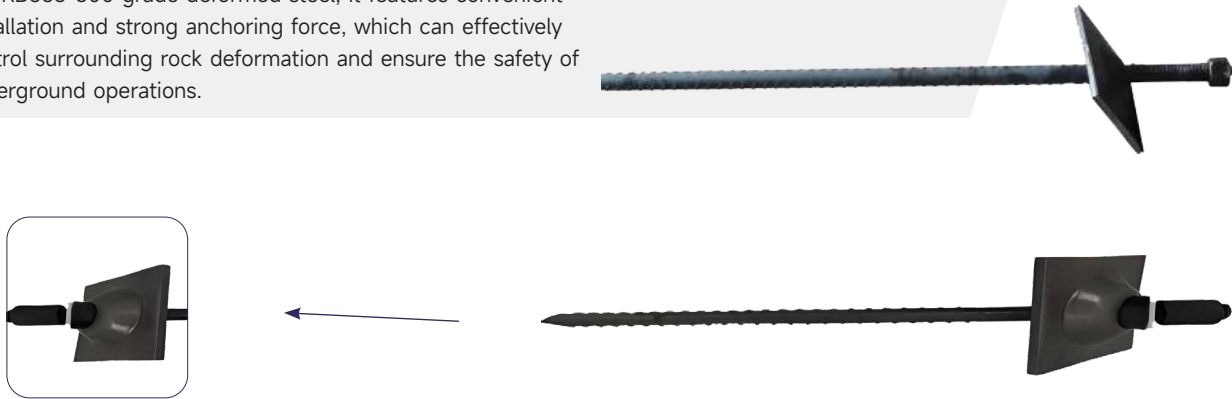
PRODUCT PARAMETERS

Specification	Solid-Glue Ratio	Consistency	Gel Time	Compressive Strength	Thermal Stability
CKa	≥ 4%	≥ 30 mm	8-25 s	≥ 60 MPa	≥ 16 mm
CKb	≥ 4%	≥ 30 mm	26-40 s	≥ 60 MPa	≥ 16 mm
K	≥ 4%	≥ 30 mm	41-90 s	≥ 60 MPa	≥ 16 mm
Z	≥ 4%	≥ 30 mm	91-180 s	≥ 60 MPa	≥ 16 mm
M	≥ 4%	≥ 30 mm	> 180 s	≥ 60 MPa	≥ 16 mm

Anchor Bolt Series

NON-LONGITUDINAL RIB THREADED STEEL RESIN ROCK BOLT

The non-longitudinal ribbed deformed steel resin anchor bolt is used for roadway support. It quickly anchors the rock formation by cooperating with resin anchoring cartridges. Made of HRB335-600 grade deformed steel, it features convenient installation and strong anchoring force, which can effectively control surrounding rock deformation and ensure the safety of underground operations.



PRODUCT PARAMETERS

Specification	Yield Strength (MPa)	Tensile Strength (MPa)	Elongation (%)	Yield Load (KN)	Tensile Load (KN)
Φ16	≥ 335	≥ 455	≥ 15	≥ 69	≥ 92
Φ18	≥ 335	≥ 455	≥ 15	≥ 87	≥ 116
Φ20	≥ 335	≥ 455	≥ 15	≥ 108	≥ 143
Φ22	≥ 335	≥ 455	≥ 15	≥ 131	≥ 173
Φ16	≥ 400	≥ 540	≥ 16	≥ 81	≥ 109
Φ18	≥ 400	≥ 540	≥ 16	≥ 102	≥ 138
Φ20	≥ 400	≥ 540	≥ 16	≥ 126	≥ 170
Φ22	≥ 400	≥ 540	≥ 16	≥ 152	≥ 206
Φ16	≥ 500	≥ 630	≥ 15	≥ 101	≥ 127
Φ18	≥ 500	≥ 630	≥ 15	≥ 128	≥ 161
Φ20	≥ 500	≥ 630	≥ 15	≥ 158	≥ 198
Φ22	≥ 500	≥ 630	≥ 15	≥ 191	≥ 240

Anchor Bolt Series

EQUAL-STRENGTH RIBBED REBAR RESIN BOLT

Applied for roadway and stope support, restraining rock deformation and ensuring operation safety. Manufactured from HRB335-600 right-hand rebar with full-length equal-strength design. Delivers high anchoring force and excellent reliability when matched with resin anchoring cartridges.



PRODUCT PARAMETERS

Specification	Yield Strength (MPa)	Tensile Strength (MPa)	Elongation (%)	Yield Load (KN)	Tensile Load (KN)
Φ16	≥ 335	≥ 455	≥ 15	≥ 69	≥ 92
Φ18	≥ 335	≥ 455	≥ 15	≥ 87	≥ 116
Φ20	≥ 335	≥ 455	≥ 15	≥ 108	≥ 143
Φ22	≥ 335	≥ 455	≥ 15	≥ 131	≥ 173
Φ16	≥ 400	≥ 540	≥ 16	≥ 81	≥ 109
Φ18	≥ 400	≥ 540	≥ 16	≥ 102	≥ 138
Φ20	≥ 400	≥ 540	≥ 16	≥ 126	≥ 170
Φ22	≥ 400	≥ 540	≥ 16	≥ 152	≥ 206
Φ16	≥ 500	≥ 630	≥ 15	≥ 101	≥ 127
Φ18	≥ 500	≥ 630	≥ 15	≥ 128	≥ 161
Φ20	≥ 500	≥ 630	≥ 15	≥ 158	≥ 198
Φ22	≥ 500	≥ 630	≥ 15	≥ 191	≥ 240

Anchor Bolt Series

TWISTED RESIN BOLT

Used for mine roadway and tunnel support. Quickly anchors surrounding rock with resin cartridge. Made of Q235 or higher strength steel (yield strength ≥ 235MPa). Special twisted surface enhances anchoring force, controls rock deformation and improves support stability.



PRODUCT PARAMETERS

Model	Yield Strength (MPa)	Tensile Strength (MPa)	Left-hand Twist Angle (°)	Anchoring Force (KN)	Pallet Bearing Capacity (KN)	Nut Assembly Bearing Efficiency Coefficient
MSGM-235/16	≥ 235	≥ 370	≥ 270	≥ 57	≥ 61	≥ 0.85
MSGM-235/18	≥ 235	≥ 370	≥ 270	≥ 72	≥ 78	
MSGM-235/20	≥ 235	≥ 370	≥ 270	≥ 89	≥ 96	
MSGM-235/22	≥ 235	≥ 370	≥ 270	≥ 107	≥ 116	

Anchor Bolt Series

SPLIT SET ROCK BOLT

A high-efficiency support product for mines, tunnels and geotechnical engineering, made of high-strength steel through special processing. It uses the expansion elasticity of the tube to fit closely with surrounding rock after installation, providing rapid radial support and restraining deformation. Featuring easy installation, stable bearing capacity and strong pull-out resistance, it adapts to various rock conditions and is widely used for temporary and permanent underground support.



PRODUCT PARAMETERS

Model (MF)	Outer Diameter d (mm)	Bar Length L (mm)	Wall Thickness δ (mm)	Slot Width b (mm)	Recommended Drilling Diameter (mm)	Material
MF30	30	1400/1600/1800/2000	2.5-3.0	12.5-15.5	28-29	Q235 / Q355
MF33	33	1400/1600/1800/2000	2.7-3.2	12.5-15.5	31-32	Q235 / Q355
MF35	35	1600/1800/2000/2200	2.8-3.3	12.5-15.5	33-34	Q235 / Q355
MF40	40	1600/1800/2000/2200	3.0-3.5	12.5-15.5	38-39	Q235 / Q355
MF43	43	1800/2000/2200/2500	3.0-3.5	12.5-15.5	41-42	Q235 / Q355
MF45	45	2000/2200/2500	3.2-3.8	12.5-15.5	43-44	Q355

Anchor Bolt Series

HOLLOW GROUTING ROCK BOLT

Special for mine roadway support, the hollow rod body can be pressure grouted to consolidate broken rock mass and block groundwater. With convenient installation, it has both drilling and anchoring functions, and can quickly form support force to ensure surrounding rock stability.

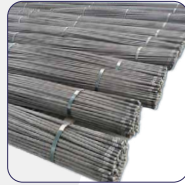


PRODUCT PARAMETERS

Product Model	Bar Outer Diameter (mm)	Wall Thickness (mm)	Nominal Length (mm)	Drill Hole Diameter (mm)	Thread Specification
MZG25	25	5	1800/2000/2200	32-34	M24×2
MZG27	27	5-6	1800/2000/2500	36-38	M26×2
MZG28	28	5-6	2000/2200/2500	38-40	M27×2
MZG30	30	6	2000/2500/3000	42-44	M30×2
MZG32	32	6-7	2000/2500/3000	45-48	M32×2

Mine Anchor Cable Series

MINE ANCHOR CABLES



Mainly made of high-strength low-relaxation prestressed steel strand with tensile strength above 1770MPa. Fixed by anchor devices and pallets, it is used for coal mine roadway and mine engineering support, effectively controlling surrounding rock deformation and ensuring operation safety, suitable for complex geological conditions such as soft and broken rock stratum.



Mine Anchor Cable Series

MINING HOOP CAGE ANCHOR CABLE

A special product for deep mine support. The cage-type structure with hoop design enhances the bonding force with the grouting body, and the pull-out resistance is increased by more than 30%. Adapted to $\Phi 28-32\text{mm}$ drill holes, it is suitable for high-stress and broken surrounding rock roadways, with convenient installation and stable support effect.



PRODUCT PARAMETERS

Specification	Steel Strand Diameter (mm)	Steel Strand Structure	Steel Strand Cross-sectional Area (mm ²)	Maximum Steel Strand Force (kN)	Tensile Strength (MPa)	Elongation (%)	Total Strain ϵ_{apu} (%)	Anchor Device Efficiency Coefficient	Matched Anchor Device
SKP18-1/1860	17.8	1×7	250.2	≥ 355	≥ 1860	≥ 3.5	≥ 2.0	≥ 0.95	KM18-1860
SKP19-1/1860	18.9	1×7	280.4	≥ 409	≥ 1860	≥ 3.5			KM19-1860
SKP22-1/1770	21.6	1×7	366.4	≥ 504	≥ 1770	≥ 3.5			KM22-1770
SKP22-1/1860	21.8	1×19S	375.0	≥ 583	≥ 1860	≥ 3.5			KM22-1860
SKP29-1/1860	28.6	1×19W	659.0	≥ 990	≥ 1860	≥ 3.5			KM29-1860
SKP35-1/1860	34.6	1×19W	948.6	≥ 1765	≥ 1860	≥ 3.5			KM35-1860

PRODUCT PARAMETERS

Specification	Steel Strand Diameter (mm)	Steel Strand Structure	Steel Strand Cross-sectional Area (mm ²)	Maximum Steel Strand Force (kN)	Tensile Strength (MPa)	Elongation (%)	Total Strain ϵ_{apu} (%)	Anchor Device Efficiency Coefficient	Matched Anchor Device
SKL18-1/1860	17.8	1×7	191	≥ 355	≥ 1860	≥ 3.5	≥ 2.0	≥ 0.95	KM18-1860
SKL19-1/1860	18.9	1×7	220	≥ 409	≥ 1860	≥ 3.5			KM19-1860
SKL22-1/1770	21.6	1×7	285	≥ 504	≥ 1770	≥ 3.5			KM22-1770
SKL22-1/1860	21.8	1×19S	313	≥ 583	≥ 1860	≥ 3.5			KM22-1860
SKL29-1/1860	28.6	1×19W	659.0	≥ 990	≥ 1860	≥ 3.5			KM29-1860
SKL35-1/1860	34.6	1×19W	948.6	≥ 1765	≥ 1860	≥ 3.5			KM35-1860

Mine Anchor Cable Series

HOLLOW ANCHOR CABLE

The core equipment for deep support of mines/tunnels, the hollow rod body design realizes the integration of grouting and anchoring. With strong bonding force and high bearing capacity, it is suitable for complex surrounding rock, quickly stabilizing the rock mass and ensuring the safety and durability of engineering support.



PRODUCT PARAMETERS

Anchor Cable Strand Diameter	Nominal Steel Wire Diameter (mm)	Length	Installation Hole Diameter	Tensile Strength	Breaking Force	Hollow Grouting Pipe Specification	Grouting Pressure	Resin Anchoring Length (mm)	Elongation (%)
Φ22mm	6.0mm	Customized as required (e.g. 6000mm, 8000mm)	Φ30mm, Φ32mm, etc.	1670MPa, 1770MPa, 1860MPa, etc.	≥ 400KN, ≥ 380KN, ≥ 420KN, etc.	Inner diameter Φ7.5mm, outer diameter Φ10mm	4.0-6.0MPa, ≥ 5.0MPa, max 7.0MPa	1000-1500	≥ 3.5

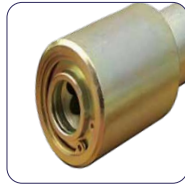
Agitator Series

MINING ANCHOR MIXER

Specially designed for roadway support, it is used with anchor bolt drill to agitate and install anchor cables. It can connect the drill with the anchor cable steel strand and agitate the resin anchor agent to realize rapid installation.



Extended Anchor Cable Agitator



PRODUCT PARAMETERS

Model	Surface Hardness	Bending Resistance	Bearable Torque (N.m)	Straightness (mm/1.0mm)
Ordinary Anchor Cable Agitator	≥ 25	No fracture or residual bending deformation under 250N.m bending moment, deformation ≤ 1.6mm/mm	≥ 250	≤ 1.0
Extended Anchor Cable Agitator				

Agitator Series

ANCHOR STIRRER

The connection size with the drill is divided into B19 and B22. Made of high-quality steel through advanced heat treatment process, it can agitate and install anchor bolts by connecting the drill with the anchor bolt and agitating the resin anchor agent to realize rapid installation.



PRODUCT PARAMETERS

Model	Surface Hardness	Bending Resistance	Bearable Torque (N.m)	Straightness (mm/1.0mm)
B19 Anchor Bolt Agitator	≥ 30	No fracture or residual bending deformation under 250N.m bending moment, deformation ≤ 1.6mm/mm	≥ 250	≤ 1.0
B22 Anchor Bolt Agitator				

Anti-falling Series

ANCHOR CABLE (BOLT) ANTI-FALLING DEVICE

Mainly used in coal mine underground roadways to prevent anchor cables from suddenly breaking and falling to hurt people due to mine pressure changes and other factors, and can effectively buffer the impact force of anchor cable falling.



Lifting Ring Type



Iron Plate Type



Sleeve Type

PRODUCT PARAMETERS

Model	Yield Strength ReH (Mpa)	Tensile Strength Rm (Mpa)	Hook Tripping Strength (KN)	Strength of Steel Wire Rope and Hook Connection Part (KN)	Overall Maximum Bearing Capacity (KN)	Steel Wire Rope Breaking Force (KN)	Steel Wire Rope Diameter (mm)
Single Wire Lifting Ring Type	≥ 310	≥ 570	≥ 10	≥ 10	≥ 10	≥ 10	≥ 5
Double Wire Plate Type	≥ 310	≥ 570	≥ 10	≥ 10	≥ 10	≥ 10	≥ 5
Single Wire Sleeve Type	≥ 310	≥ 570	≥ 10	≥ 10	≥ 10	≥ 10	≥ 5

Mine Anchor Cable Anchor Device Series

MINING ANCHOR CABLES AND ANCHORAGES

Used to fix anchor cables and transfer surrounding rock stress to stable rock stratum. Common specifications are adapted to anchor cables of 15.24mm-34.6mm, etc.; made of 40Cr high-quality carbon structural steel through vacuum heat treatment and quenching and tempering; the anchor device efficiency coefficient ≥ 0.95 , which can effectively prevent anchor cable relaxation and slipping, and ensure roadway support safety.



Ordinary Series of Mine Anchor Cable Anchor Devices



Q Series of Mine Anchor Cable Anchor Devices

PRODUCT PARAMETERS

Common Specification	Applicable Steel Strand Diameter	Anchor Device Efficiency Coefficient η_a	Total Strain ϵ_{apu} of Assembly at Ultimate Tensile Force	Fatigue Performance Test Cycle Times	Cyclic Load Test Cycle Times	Clip Hardness	Anchor Ring Hardness	Heat Treatment Method	Surface Treatment
KM15 - 1860 KM15-1860(Q)	$\Phi 15.24\text{mm}$	≥ 0.95	$\leq 2\%$	$\geq 2,000,000$	50	58-62HRC	27-34HRC	Clip: Carbonitriding (case depth 0.55-0.70mm); Anchor Ring: Quenching and Tempering	Blackening and Rust Prevention for Anchor Ring and Clip
KM18 - 1860 KM18-1860(Q)	$\Phi 17.8\text{mm}$								
KM19 - 1860 KM19-1860(Q)	$\Phi 18.9\text{mm}$								
KM22 - 1770 KM22-1770(Q)	$\Phi 21.6\text{mm}$								
KM22 - 1860 KM22-1860(Q)	$\Phi 21.8\text{mm}$								
KM29 - 1860	$\Phi 28.6\text{mm}$								
KM35 - 1860	$\Phi 34.6\text{mm}$								

Pallet Series

ANCHOR BOLT PALLET

Used for roadway support, it transfers surrounding rock pressure to deep stable rock stratum by matching with anchor bolts to enhance the support effect. Mainly made of Q235 steel with bearing capacity up to 80-150kN, ensuring roadway surrounding rock stability.



Various Square Mine Pallets



Various Round Mine Pallets

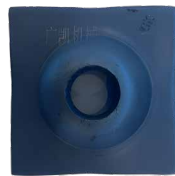


Various Fancy Mine Pallets

Pallet Series

ANCHOR CABLE TRAY

Used for engineering such as coal mine roadways, it transfers surrounding rock pressure to deep stable rock stratum by matching with anchor cables to reinforce the surrounding rock. Mainly made of Q235B steel with special surface treatment for corrosion prevention. Its central hole is adapted to anchor cables with bearing capacity up to 300-600kN, which can effectively disperse stress, prevent anchor cable fracture and ensure engineering safety and stability.



Various Reamed Mine Pallets



Various W-shaped Mine Pallets



Various Straight-hole Mine Pallets



Various Fancy Mine Pallets

PRODUCT PARAMETERS

Product Category	Model	Thickness Requirement	Area Requirement	Hole Diameter	Hole Position	Pallet Type	Bearing Capacity	Length and Width Allowable Deviation	Thickness Allowable Deviation
Anchor Bolt Pallet	Common sizes: 10010010, 120×120×10, 140×140×10, 150×150×10, customizable	Generally not less than 8mm; not less than 10mm for IV ~ V class surrounding rock roadways	Generally not less than 100cm ² (the side length of the narrowest side not less than 10cm); not less than 144cm ² for IV ~ V class surrounding rock roadways (the side length of the narrowest side not less than 12cm)	1.5 ~ 2mm larger than the anchor bolt rod diameter	In the middle of the pallet	Round, square, butterfly, etc.	Matched with the designed anchoring force of anchor bolts; generally required to be not less than 1.5 times the designed bearing capacity	±5mm	Upper deviation unrestricted, lower deviation not more than 0.5mm
Anchor Cable Pallet	Common sizes: 200×200×16, 250×250×20, 300×300×14, 300×300×16, 300×300×20, customizable	Usually not less than 12mm, subject to specifications and application scenarios	Not less than 225cm ² (the side length of the narrowest side not less than 15cm), subject to specifications	2-4mm larger than the anchor cable strand diameter	In the center of the pallet	Commonly butterfly, also square, round, etc.	Not less than 1.5 times the designed bearing capacity of anchor cables	±5mm	Upper deviation unrestricted, lower deviation not more than 0.5mm

Pallet Series

MINE STEEL GUARD PLATE

Used for mine roadway support to resist surrounding rock deformation and rock fall impact, ensuring underground operation safety. Mainly made of Q235 and Q345 steel with yield strength above 345MPa, fixed by anchor bolts, it can effectively disperse pressure and enhance roadway stability.



Grid shape



W shape

PRODUCT PARAMETERS

Specifications	Aperture (mm)	Common Width (mm)	Common Thickness (mm)	Forming Height (mm)	Length (mm)	Breaking Force (kN)
W-type guardrail	40 (Customizable upon request)	220, 250, 280, 300, etc.	3.0, 4.0, 5.0, etc.	Approx. 23.3mm	Customizable upon request	≥ 284
Grid-type guardrail						

Self-aligning Ball and Yielding Ring Series

SELF-ALIGNING BALL PAD

Used in the anchor bolt support system, it can automatically adjust the stress direction of the anchor bolt to ensure the anchor bolt is perpendicular to the rock surface and optimize the stress state. Its parameters such as inner diameter are adapted to anchor bolt diameters (16-28mm), outer diameter 25-40mm, self-aligning angle 3° -5° . Made of high-strength alloy steel with surface rust prevention treatment, it can effectively improve the anchor bolt support effect and enhance roadway surrounding rock stability.



Anchor Bolt Self-aligning Ball Pad



Anchor Cable Self-aligning Ball Pad

PRODUCT PARAMETERS

Product Category	Model	Outer Diameter (mm)	Height (mm)	Inner Diameter (mm)	Strength Requirement
Anchor Bolt Self-aligning Ball Pad	Φ24, Φ26, etc., customizable	About 46 (for Φ25 ball pad), tolerance ±1, customizable	About 23 (for Φ25 ball pad), tolerance ±1, customizable	About 26 (for Φ25 ball pad), tolerance ±1, customizable	Not lower than the bearing capacity of the matched pallet
Anchor Cable Self-aligning Ball Pad					

Self-aligning Ball and Yielding Ring Series

LET THE PRESSURE RING

A key accessory for mine support, adapted to anchor bolts and anchor cables, made of high-strength steel through precision processing. It has the characteristics of automatic yielding and buffer energy absorption, adapted to surrounding rock deformation, avoiding damage to the support structure and ensuring engineering stability.



PRODUCT PARAMETERS

Model	Adapted Anchor Bolt/Anchor Cable	Material	Yield Value (kN)	Rated Bearing Capacity (kN)
RY-80 (Φ18)	Φ18mm	Q235 steel	80	≥ 180
RY-120 (Φ20)	Φ20mm	45# steel	120	≥ 220
RY-150 (Φ22)	Φ22mm	20MnSi alloy steel	150	≥ 280
RY-200 (Φ25)	Φ25mm	High-strength wear-resistant steel	200	≥ 350
RY-300 (Φ28)	Φ28mm	Low-alloy high-strength steel	300	≥ 400

Steel Band Series

MINE W, M STEEL BAND

Also known as roof steel band, made of high-strength alloy steel strip through cold pressing. It can form an integral bearing structure with various anchor bolts to significantly improve the support effect. Widely used in mine roadway and chamber support, effectively coping with unstable surrounding rock.



W-shaped steel strip



M-shaped steel strip

PRODUCT PARAMETERS

Model	Overall Dimension	Longitudinal Bending Degree	End Angle	Breaking Force F (KN)
220*3 (customizable)	Customized as required	≤ 3mm/m	90° ±3°	≥ 248
280*4 (customizable)	Customized as required	≤ 3mm/m	90° ±3°	≥ 420

Steel Band Series

MINE TRAPEZOIDAL REINFORCED STEEL BAND

Used for roof and two-side support of roadways, it enhances the integrity of support and controls surrounding rock deformation by matching with anchor bolts. Mainly made of Q235 and Q345 steel with yield strength above 345MPa, effectively improving roadway stability and safety.



Single-reinforced

PRODUCT PARAMETERS

Specification	Nominal Diameter (mm)	Steel Band Width (mm)	Hole Width (mm)	Hole Pitch (mm)	Length (mm)	Yield Strength R (Mpa)	Tensile Strength Rm (Mpa)	Elongation After Fracture A (%)
Reinforced Steel Band	φ12-φ20	80-280, customizable	Usually 2mm larger than the rock drill bit diameter, length mostly 50-70	Generally 500-1100, customizable	Customizable, max usually not more than 15000	≥ 360	≥ 486	≥ 8

Steel Band Series

MINE T-SHAPED STEEL BAND

Used for roof and two-side support of roadways, it enhances the integrity of support and controls surrounding rock deformation by matching with anchor bolts. Mainly made of Q235 and Q345 steel with yield strength above 500MPa, effectively improving roadway stability and safety.



PRODUCT PARAMETERS

Model	Width (mm)	Hole Width (mm)	Hole Pitch (mm)	Length (mm)	Tensile Yield Strength (Mpa)	Tensile Strength (Mpa)	Elongation After Fracture (%)
8mm thick T-shaped steel band	110, 170, 190, etc., customizable	2mm larger than the rock drill bit diameter, length mostly 50-70	500-1100, customizable	Customizable, usually not more than 15000	≥ 220 (Q235); ≥ 345 (Q355)	≥ 350 (Q235); ≥ 470 (Q355)	≥ 15 (Q235); ≥ 18 (Q355)
10mm thick T-shaped steel band	110, 170, 190, etc., customizable	2mm larger than the rock drill bit diameter, length mostly 50-70	500-1100, customizable	Customizable, usually not more than 15000	≥ 220 (Q235); ≥ 345 (Q355)	≥ 350 (Q235); ≥ 470 (Q355)	≥ 15 (Q235); ≥ 18 (Q355)

Metal Mesh Series

MINE WARP AND WEFT MESH

The wire diameter is optional from 3.0-6.0mm, common mesh specifications are 40×40mm, 30×30mm, etc. The width is 1-3m, the length is customizable, with hot-dip galvanized surface for strong corrosion resistance. The longitudinal and transverse tensile strength ≥ 400MPa, elongation ≤ 10%, and the welding point tensile force is above 1500N, suitable for various scenarios such as roadway support and false roof laying.



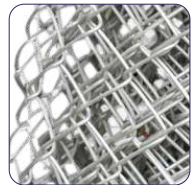
PRODUCT PARAMETERS

Model	Material	Wire Diameter (mm)	Mesh (mm)	Width (mm)	Length	Weaving Method	Surface Treatment	Steel Wire Tensile Strength (Mpa)	Steel Wire Elongation (%)
Warp and Weft Mesh	High-quality low-carbon steel wire, galvanized wire	2.0-4.0mm (common)	30mm, 35mm, 40mm (common pitch)	1000mm, 1200mm (common)	Customizable	Machine weaving	Electro-galvanizing, hot-dip galvanizing	300-500	> 12

Metal Mesh Series

MINING DIAMOND MESH

Common materials include low-carbon steel wire, galvanized wire, stainless steel wire, etc. The wire diameter range is 2.0-6mm, customizable. Common meshes are 5050mm, 6060mm, etc. The width is 1-6m, the length is unrestricted. Surface treatment includes galvanizing, dip coating, etc., which can effectively prevent corrosion and rust and adapt to the complex mine environment.



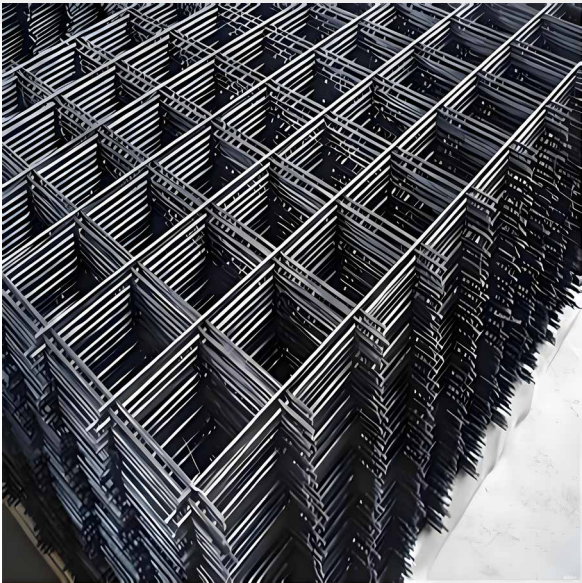
PRODUCT PARAMETERS

Model	Material	Wire Diameter (mm)	Mesh (mm)	Width (mm)	Length	Weaving Method	Surface Treatment	Steel Wire Tensile Strength (Mpa)	Steel Wire Elongation (%)
Diamond Mesh	High-quality low-carbon steel wire, galvanized wire	2.0-4.0mm (common)	40×40mm, 50×50mm, 60×60mm, 80×80mm, etc.	0.8m-3.0m (common), customizable	Customizable	Machine weaving	Electro-galvanizing, hot-dip galvanizing	300-500	≥ 12

Metal Mesh Series

REINFORCED WELDED MESH

Made of Q235 or HRB400 steel bar with optional wire diameter 4-12mm. Various mesh specifications, common aperture in length and width directions 50×50mm-200×200mm. The mesh size is 1-12m in length and 0.5-3m in width. The welding point shear force ≥ 1500N, yield strength ≥ 360MPa, tensile strength ≥ 450MPa, with strong galvanized layer adhesion, corrosion and wear resistance.



Reinforced Flat Welded Mesh



Reinforced Woven Welded Mesh

PRODUCT PARAMETERS

Model	Material	Wire Diameter (mm)	Mesh (mm)	Width (mm)	Length	Weaving Method	Tensile Strength (Mpa)	Yield Strength (Mpa)	Welding Point Shear Force (N)
Reinforced Mesh	Q195, Q235 and other hot-rolled wire rod	4-12mm	50×50mm-200×200mm, customizable	0.5m-1.5m, customizable	1.0m-6.0m, customizable	Machine welding	≥ 450	≥ 360	≥ 1500

Support Shed Series

U-SHAPED SHED (MINE ROADWAY SUPPORT)

Used for coal mine roadway and chamber support to bear high stress and control surrounding rock deformation. Made of 16Mn, 20MnK and other low-alloy high-strength steel with weight per meter 24-38kg, it can be connected by clamps to adapt to different cross-section shapes, effectively resist mine pressure and ensure the stability and safety of underground space.



PRODUCT PARAMETERS

Specification	Height (mm)	Bottom Thickness (mm)	Outer Opening Width (mm)	Cross-sectional Area (cm ²)	Theoretical Weight (kg/m)	Vertical Leg Thickness (thin part, mm)
18U	99	10	122	24.15	18.96	7.5
25U	110	15	135	31.54	24.95	6.3
29U	124	16	150.5	37	29	7.2
36U	138	17	171	45.7	35.87	7.8
40U	141.9	20.2	171	51.02	40.05	8.5

Support Shed Series

TRAPEZOIDAL SHED (MINE ROADWAY SUPPORT)

Used for roadway support, adapted to inclined and rectangular cross-section roadways to resist roof and side pressure. Made of mine I-steel, its trapezoidal structure fits the roadway outline, and can be connected to the roof by back plates and back walls to effectively control surrounding rock deformation. Suitable for roadways with moderate ground pressure and short service life, ensuring underground operation safety.



PRODUCT PARAMETERS

Model	Cutting Notch	Top Beam Length (mm)	Perpendicularity of Mine I-steel End Face and Section Steel Axis	Thickness of Wood Pad at Top Beam and Column Interface (mm)	Assembled Finished Product	Welding Strength
11# mine I-steel	Smooth cutting notch (remove burrs, oxides, slag and other defects; repair welding and grinding for tearing and chipping)	Customized as required	90±1°	≥ 20	Customized as required	≥ Raw material (bending comparison test)
12# mine I-steel						

Support Shed Accessory Series

U-SHAPED KARAN

Used to fix U-shaped sheds to ensure the stable connection of the shed frame and improve the overall support strength. Mainly made of Q235 or alloy steel with hot-dip galvanized surface for rust prevention. By tightening the nut, it can effectively prevent the displacement of the shed frame and enhance the reliability of roadway support.



PRODUCT PARAMETERS

Model	Dimension (mm)	Weight (kg)	Bolt Specification	Bolt Length (mm)	Average Working Resistance (kN)	Clamp Plate Thickness Error (mm)	Clamp Plate Width Error (mm)	Bolt Hole Pitch Deviation (mm)
25U single clamp	14×70×24	3.5	M24	35	≥ 100	±0.5	±0.2	±1
25U double clamp	14×80×24	5.5 - 5.7			≥ 100			
29U single clamp	14×70×24	4.1			≥ 140			
29U double clamp	16×90×24	9			≥ 140			
36U double clamp	20×100×30	12.5			≥ 190			

Hook Series

CABLE HOOK

Used for laying and fixing underground roadway cables to prevent cables from being damaged by dragging on the ground. Made of Q235 steel with galvanized surface for corrosion prevention, adapted to cables of different diameters. With simple structure and convenient installation, it can be combined in layers, effectively regulating cable lines and ensuring underground power supply and communication safety.



Single Cable Hook

Double Cable Hook

PRODUCT PARAMETERS

Model	Single Hook Body Dimension (mm)	Number of Hooks	Overall Length (mm)	Bearing Capacity	Deflection of Straight Rod Section	Surface Resistance (Ω)	Installation Spacing	Fixing Method
580*40*4/5 hook (single)	About 58×40×4 (L×W×T)	5	About 580	≥ 210kg (reference, subject to actual)	< 10mm when single arc hook bears 50kg	≤ 3×10 ⁸	Generally 1.2m-1.8m, determined by no cable sag	Commonly M16×200mm expansion bolt, etc.
580*40*4/10 hook (double)		10		≥ 420kg (assumed, reference)				

Metal Top Beam Series

·Metal Hinged Top Beam

DJB MINE TOP BEAM

Made of high-quality steel, it realizes multi-beam connection through a unique hinged structure. With high strength and good toughness, it forms a stable support system by matching with single hydraulic props. Widely used in coal mine underground mining face and roadway support, it can effectively cope with roof pressure, prevent roof fall accidents and ensure operation safety and mining smoothness.



PRODUCT PARAMETERS

Specifications	Tensile Strength	Maximum Load per Single Beam	Minimum Load per Single Beam	Hardness	Minimum Load at Hinge Joint	Maximum Load at Hinge Joint	Failure Load at Hinge Joint	Repeated Load on Hinge Joint
DJB-*** (Length) / 300 (Load)	Any two hinged beams placed on the working platform can smoothly insert pins and adjusting wedges to achieve hinged connection. The hinged top beam rotates freely up and down along the pins without significant torsion, and the wedges and pins can be removed flexibly without jamming.	Length ≥ 1000mm: 400kN	Length ≥ 1000mm: 300kN	Beam body HB300-350	170kN	250kN	No brittle fracture upon failure under a load greater than 250kN	Load 187kN, repeated 35 times, the top beam should show no damage, and the welds should not crack.
		700 ≤ Length < 1000mm: 560kN	700 ≤ Length < 1000mm: 420kN	Angle wedge HB300-350				
		600 ≤ Length < 700mm: 630kN	600 ≤ Length < 700mm: 470kN	Pin HRC40-45				

Metal Top Beam Series

·Metal Hinged Top Beam

MINE CROSS HINGED TOP BEAM DJBZ

Made of high-strength steel with a cross hinged structure, it can realize vertical and horizontal two-way connection. It can form a stable space support system by matching with single hydraulic props. Mainly used in complex roof environments of coal mine underground, it effectively disperses roof pressure, enhances the integrity of support, reduces the risk of roof fall accidents and provides reliable safety guarantee for mining operations.



PRODUCT PARAMETERS

Specifications	Operational flexibility	Maximum load per beam	Minimum load per beam	Stiffness	Minimum load at hinged joint	Maximum load at hinged joint	Hinged joint failure	Fixing method
DJBZ-*** (Length) / 300 (Load)	Any two hinged beams placed on the working platform can smoothly insert pins and adjusting wedges to achieve hinged connection. The hinged top beam rotates freely up and down along the pins without significant torsion, and the wedges and pins can be removed flexibly without jamming.	Length ≥ 1000mm: 400kN	Length ≥ 1000mm: 300kN	Beam body HB300-350	170kN	250kN	No brittle fracture upon failure under a load greater than 250kN	Load 187kN, repeated 35 times, the top beam should show no damage, and the welds should not crack.
		700 ≤ Length < 1000mm: 560kN	700 ≤ Length < 1000mm: 420kN	Angle wedge HB300-350				
		600 ≤ Length < 700mm: 630kN	600 ≤ Length < 700mm: 470kN	Pin HRC40-45				

Metal Top Beam Series

LONG METAL ROOF BEAM

The long metal roof beam is forged from high-quality steel, featuring a robust structure, large overall length, and strong load-bearing capacity. Through rational layout and coordination with individual supports, it forms a continuous support structure. Primarily used in coal mine longwall faces, it effectively controls roof subsidence, reduces the risk of roof collapse, provides a stable and safe space for coal mining operations, and ensures continuous and efficient mining.



Metal Long Top Beam DFB

Reinforced Guard Plate Metal Long Top Beam DFB

PRODUCT PARAMETERS

Model	Tensile Strength (N/mm ²)	Elongation (%)	Impact (N.m/mm ²)	Single Beam Maximum Load (kN)	Single Beam Minimum Load (kN)	Hardness (HB)	Single Beam Breaking Load (kN)	Single Beam Repeated Loading Load (kN)
DFB-*** length /300	≥ 500	≥ 18	≥ 100	400	300	300-350	> 400, no brittle fracture	330, repeated 35 times, no weld cracking

Single Hydraulic Prop Accessory Series

·Metal Top Beam Prop Shoe

IRON PILLAR BOOTS

Forged from high-quality steel with special surface treatment for wear and corrosion resistance. Its design fits the bottom of the single hydraulic prop, increasing the contact area between the prop and the floor, effectively dispersing pressure, preventing the prop from sinking and tilting, and ensuring support stability. Suitable for various roadways and mining faces of coal mine underground, improving operation safety and reliability.



PRODUCT PARAMETERS

Product	Bearing Capacity	Durability	Shoe Ear Tensile Strength (KN)	Steel Wire Rope/ Chain Tensile Strength (KN)	Pull-out Force (kN)
Iron prop shoe	1. No crack after rated load test, or residual deformation of the shoe body bottom surface along the normal direction ≤ 20mm 2. Breaking load value from breaking load test ≥ 1.5 times the prop working resistance	No crack after repeated rated load test, or residual deformation of the shoe body bottom surface along the normal direction ≤ 30mm	No residual deformation or crack when tension ≤ 20	No crack or fracture when tension ≤ 20	No pull-out when tension ≤ 15

Single Hydraulic Prop Accessory Series · Metal Top Beam Prop Shoe

POLYMER COLUMN GLOVES

These polymer column shoes are specifically designed for mine support. Made of high-quality nylon, they weigh only 1/7 that of cast iron, making them easy to carry and install, effectively reducing the labor intensity of workers. The unique circular base paired with a cylindrical collar, and reinforced with ribs evenly distributed between the outer wall and the base, provides strong stability, effectively reducing the amount of drilling required for the support column and significantly extending its service life.



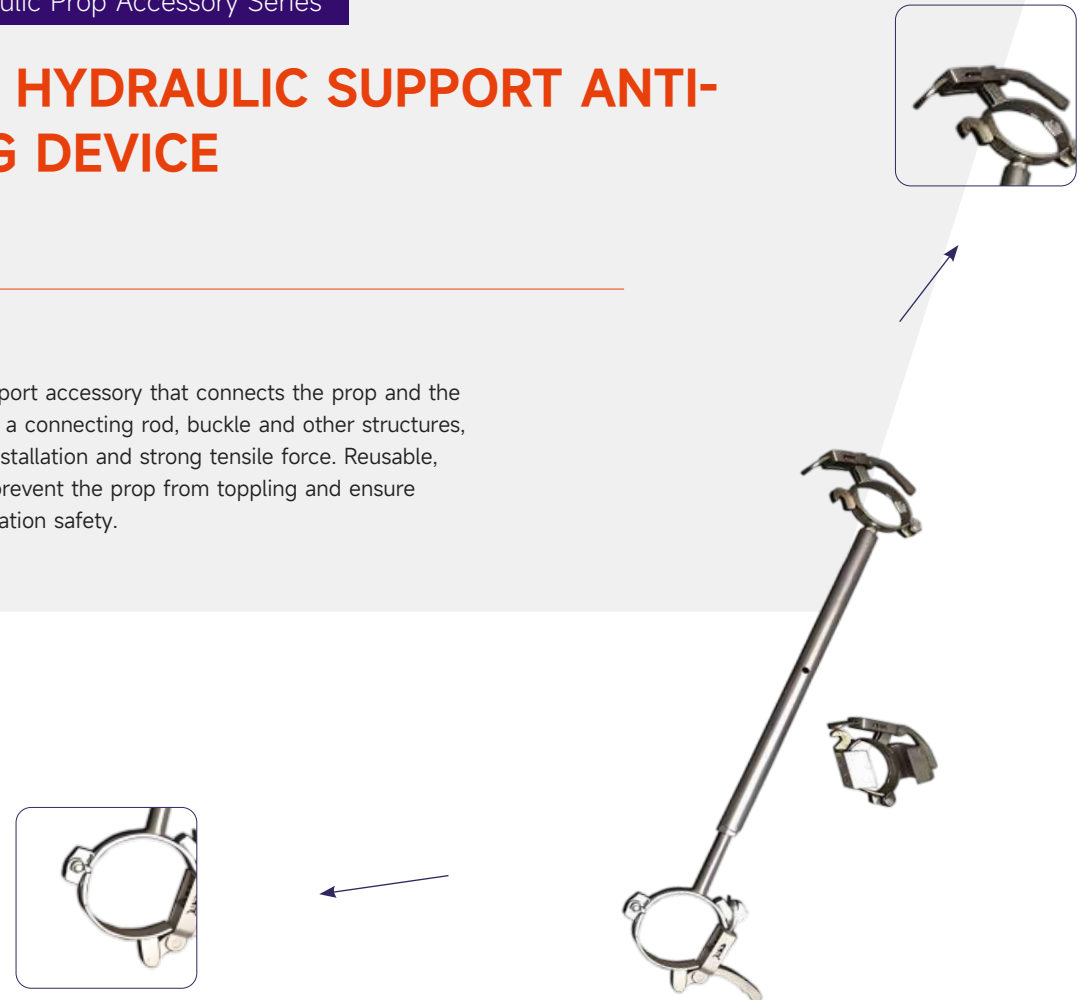
PRODUCT PARAMETERS

Product	Surface Resistance (Ω)	Oxygen Index Value	Tensile Strength (MPa)	Compressive Strength (MPa)	Bending Strength (MPa)	Hardness (HB)	Impact Strength (notched, N.cm/cm ²)	Melting Point (°C)	Continuous Heat Resistance (°C)
Polymer Column Gloves	≤ 1×10 ⁹	≥ 26	≥ 80	≥ 100	≥ 140	≥ 20	≥ 60	≥ 223	≥ 100

Single Hydraulic Prop Accessory Series

SINGLE HYDRAULIC SUPPORT ANTI-TIPPING DEVICE

A mine safety support accessory that connects the prop and the top beam through a connecting rod, buckle and other structures, with convenient installation and strong tensile force. Reusable, it can effectively prevent the prop from toppling and ensure underground operation safety.



PRODUCT PARAMETERS

Model	Steel Pipe Diameter (mm)	Adjustable Length (mm)	Working Stroke (mm)	Adapted Prop Cylinder Diameter (mm)	Breaking Tensile Force (KN)
FD90	Φ35	800-1400	600-1000	90	≥ 200
FD100	Φ40	800-1400	800-1150	100	
FD110	Φ40	800-1400	800-1150	110	
FD115	Φ44	800-1400	800-1250	115	
FD125	Φ44	800-1400	800-1250	125	

Machine Tool Series

·Mine Anchor Cable Tensioning Tool

MD SERIES



The MD type mining anchor cable tensioning machine consists of jacks, electric hydraulic pumps, etc. It automatically anchors and retracts anchors, has a reasonable structure, is easy to operate, and is compatible with various steel strands. It is suitable for underground coal mines without air supply and ensures the installation of anchor cable prestress.



PRODUCT PARAMETERS

Model	Rated Tension (kN)	Rated Oil Pressure (MPa)	Applicable Steel Strand Diameter (mm)	Tension Stroke (mm)	Jack Weight (including oil, kg)	Center Hole Diameter (mm)	Rated Voltage (V)
MD15 - 300/63	300	63	15.24	150	18	17.5	380/660 or 660/1140
MD18 - 300/63	300	63	17.8	150	20	20.5	380/660 or 660/1140
MD18 - 350/63	350	63	17.8	150	22	20.5	380/660 or 660/1140
MD18 - 400/63	400	63	17.8	150	24	20.5	380/660 or 660/1140
MD19 - 300/63	300	63	18.9	150	23	21	380/660 or 660/1140
MD19 - 350/63	350	63	18.9	150	25	21	380/660 or 660/1140
MD19 - 400/63	400	63	18.9	150	27	21	380/660 or 660/1140
MD22 - 300/63	300	63	21.8	150	28	24	380/660 or 660/1140
MD22 - 350/63	350	63	21.8	150	30	24	380/660 or 660/1140
MD22 - 400/63	400	63	21.8	150	32	24	380/660 or 660/1140
MD29 - 600/63	600	63	28.6	150	48	32	380/660 or 660/1140

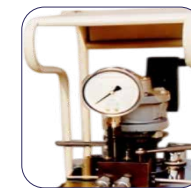
Machine Tool Series

·Mine Anchor Cable Tensioning Tool

MQ SERIES



The MQ type mining anchor cable tensioning machine is powered by compressed air and consists of jacks, pneumatic hydraulic pumps, etc. It automatically anchors and releases anchors, is explosion-proof and safe, easy to operate, and is compatible with multiple specifications of steel strands. It is suitable for explosion-proof scenarios such as underground coal mines.



PRODUCT PARAMETERS

Model	Rated Tension (kN)	Rated Oil Pressure (MPa)	Applicable Steel Strand Diameter (mm)	Tension Stroke (mm)	Jack Weight (kg)	Center Hole Diameter (mm)
MQ18 - 300/63	300	63	17.8	150	22	20.5
MQ18 - 350/63	350	63	17.8	150	24	20.5
MQ18 - 400/63	400	63	17.8	150	26	20.5
MQ19 - 300/63	300	63	18.9	150	25	21
MQ19 - 350/63	350	63	18.9	150	27	21
MQ19 - 400/63	400	63	18.9	150	29	21
MQ22 - 300/63	300	63	21.8	150	28	24
MQ22 - 350/63	400	63	21.8	150	30	24
MQ22 - 400/63	350	63	21.8	150	32	24
MQ25 - 350/63	450	63	25	150	35	32
MQ29 - 450/63	350	63	28.6	150	40	32
MQ29 - 500/63	500	63	28.6	150	43	32
MQ29 - 600/63	600	63	28.6	150	48	32
MQ35 - 700/63	700	63	35	150	55	38

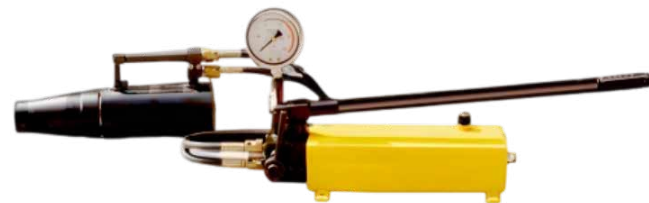
Machine Tool Series

· Mine Anchor Cable Tensioning Tool

MS SERIES



The MS series mine anchor cable tensioning tool consists of a manual hydraulic pump, a jack, etc. Driven manually, it realizes automatic anchoring and de-anchoring. It is suitable for various specifications of steel strands, safe and reliable, and applicable to prestressed anchoring projects such as coal mines and tunnels.



PRODUCT PARAMETERS

Model	Rated Tension (kN)	Rated Oil Pressure (MPa)	Applicable Steel Strand Diameter (mm)	Tension Jack Weight (Including Oil, kg)	Center Hole Diameter (mm)	Tension Stroke (mm)
MS15 - 200/63	200	63	15.24	17.5	17.5	150
MS18 - 350/63	350	63	17.8	21	21	150
MS19 - 350/63	350	63	18.9	23	24	150
MS22 - 350/63	350	63	21.8	25	28	150
MS29 - 400/63	400	63	28.6	28	32	150

Machine Tool Series

· Jack

MINE ANCHOR TENSIONING JACK

The mine anchor cable tensioning jack has a rated tension of 180 - 600kN, a tension stroke of 100 - 150mm, is suitable for anchor cables with a diameter of 15.24 - 34.6mm, and a rated oil pressure of 63MPa. Equipped with an oil pump, it is used for the prestressed tensioning of anchor cables in coal mine roadways to ensure that the anchor cables are tightened to the required standard and the roadways are stable.



PRODUCT PARAMETERS

Model	Rated Tension (kN)	Rated Oil Pressure (MPa)	Applicable Anchor Cable Diameter (mm)	Tension Stroke (mm)	Center Hole Diameter (mm)	Equipment Weight (kg)
YCD15 - 300/63	300	63	15.24	150	18	19
YCD18 - 300/63	300	63	17.8	150	21	21
YCD18 - 350/63	350	63	17.8	150	21	23
YCD18 - 400/63	400	63	17.8	150	21	25
YCD19 - 400/63	400	63	18.9	150	22	28
YCD22 - 300/63	300	63	21.6	150	24	26
YCD22 - 350/63	350	63	21.6	150	24	28
YCD22 - 400/63	400	63	21.6	150	24	30
YCD25 - 350/63	350	63	21.8	150	27	32
YCD29 - 600/63	600	63	28.6	125	32	45
YCD35 - 700/63	700	63	32 - 35	150	38	52

Machine Tool Series · Jack

TQ ANCHOR CABLE DE-ANCHORING TOOL



The TQ type anchor cable de-anchoring tool is a special hydraulic equipment for underground coal mines. With a rated oil pressure of 63MPa, it has strong and stable de-anchoring force. Suitable for various specifications of steel strands, it is easy to operate and efficient in de-anchoring, assisting in anchor device recovery and roof safety, and applicable to roadway support operations.



PRODUCT PARAMETERS

Model	Rated De-anchoring Force (kN)	Rated Pressure (MPa)	Applicable Nominal Diameter of Steel Strand (mm)	Center Hole Diameter (mm)	System Rated Working Pressure (MPa)	Effective Oil Tank Volume (L)	Machine Weight (kg)
TQ18-300/55	300	55	18	20	57	4	27
TQ18-350/60	350	60	18	20	62	4	27
TQ19-300/55	300	55	19	22	57	4	27
TQ19-400/60	400	60	19	22	62	4	27
TQ22-250/55	250	55	22	24	57	4	27
TQ22-400/63	400	63	22	24	64	4	27
TQ22-500/63	500	63	22	24	64	4	27
TQ22-550/63	550	63	22	24	64	4	27
TQ22-700/63	700	63	22	24	64	4	27
TQ22-500/63	500	63	29	32	64	4	27
TQ22-600/63	600	63	29	32	64	4	27

Machine Tool Series · Jack

TS ANCHOR CABLE DE-ANCHORING TOOL

The TS type anchor cable de-anchoring tool is a special hydraulic equipment for underground coal mines. With a rated oil pressure of 63MPa and a de-anchoring force of 300 - 400kN, it is suitable for various specifications of steel strands. It is easy to operate and efficient in de-anchoring, assisting in anchor device recovery and roof danger elimination, and ensuring operation safety.



PRODUCT PARAMETERS

Model	Rated De-anchoring Force (kN)	Rated Oil Pressure (MPa)	Applicable Steel Strand Diameter (mm)	De-anchoring Stroke (mm)	Jack Weight (kg)	Center Hole Diameter (mm)
TS15 - 300/63	300	63	15.24	100	18	24.5
TS18 - 350/63	350	63	17.8	100	20	28
TS19 - 400/63	400	63	18.9	100	21	32
TS22 - 400/63	400	63	21.8	100	21	32
TS29 - 400/63	400	63	28.6	100	25	38

Machine Tool Series ·Cutter

PRESTRESSED EXTRUSION PRESS

The prestressed extruder has a rated oil pressure of 60MPa, an extrusion force of 65kN, a piston stroke of 150mm, and a through hole diameter suitable for steel strands of 15.24 - 17.8mm. Often used with an oil pump, it is used to make fixed-end extruded anchor devices and complete the anchoring of steel strands in prestressed construction such as bridges and buildings.



PRODUCT PARAMETERS

Basic Performance	Model JYJ-15	Model JYJ-18
Rated Pressure (MPa)	60	60
Extrusion Force (kN)	55	65
Extrusion Stroke (mm)	150	150
Extrusion Piston Area (cm ²)	94.98	113.04
Weight (kg)	45	55
Applicable Steel Strand Diameter (mm)	Φ15.24	φ17.8

Machine Tool Series ·Cutter

REBAR EXTRUSION CONNECTION PLIERS

The steel bar extrusion connector has a rated pressure of 60MPa, a rated extrusion force of 800kN, and is suitable for steel bars with a diameter of 18 - 35mm. Used in the construction of buildings, bridges, and tunnels, it inserts the steel bar into the sleeve and extrudes to make the two closely combined to complete the steel bar connection operation.



PRODUCT PARAMETERS

Basic Performance	JYQ720	JYQ900
Rated Pressure (MPa)	60	60
Extrusion Force (kN)	650	800
Working Stroke (mm)	45	45
Weight (kg)	38	49

Machine Tool Series ·Cutter

HYDRAULIC STEEL STRAND CUTTER

The steel strand hydraulic cutter has a working pressure of 63MPa, a cutting force of 500kN, a blade opening of 32mm, and can cut steel strands of 15.24 - 28.6mm and anchor bolts below 25mm. Using hydraulic transmission, it is easy to operate and mainly used for cutting steel strands and anchor bolts in coal mine roadways.



PRODUCT PARAMETERS

Model	Rated Pressure (MPa)	Rated Shear Force (kN)	Shear Stroke (mm)	Maximum Blade Opening (mm)	Anchor Cable Diameter (mm)	Cylinder Return Method	Machine Weight (kg)
JY-200	63	200	21	20	φ15.24	Spring	12
JY-300	63	300	26	25	φ17.8/18.9	Spring	13
JY-400	63	400	26	25	φ21.8	Spring	14.5
JY-500	63	500	33	32	φ28.6	Spring	22
JY-S-400	63	400	32	31	φ28.6	Hydraulic	14.9

Machine Tool Series ·Cutter

HYDRAULIC NUT SPLITTER

The hydraulic nut cutter has a working pressure of 70MPa, a cutting force of 198kN, and can cut nuts of M12 - M27. Using the principle of hydraulics, it is labor-saving to operate and can quickly cut rusted and seized nuts, often used in equipment maintenance scenarios such as mines, electric power, and petrochemical industry.



PRODUCT PARAMETERS

Model	Applicable Nut Size	Maximum Working Pressure	Maximum Cutting Force	Overall Dimension	Weight
ZDNC1924	M12-M16	70MPa	98kN	φ70×280mm	4kg
ZDNC2430	M16-M20	70MPa	143kN	φ70×300mm	4.5kg
ZDNC3036	M18-M24	70MPa	180kN	φ80×310mm	5kg
ZDNC3241	M22-M27	70MPa	198kN	φ80×330mm	5.2kg

Machine Tool Series ·Cutter

HYDRAULIC ANCHOR RING CUTTER



The hydraulic anchor ring cutter has a cutting range for KM22 anchor cable anchor devices, a working stroke of 45mm, a working pressure of 63MPa, a cutting force of 1200KN, and an outer diameter of $\Phi 75$ mm. Used in coal mines or tunnels, it can quickly break down non-detachable anchor devices.



PRODUCT PARAMETERS

Model	Working Pressure (MPa)	Cutting Range	Working Stroke (mm)	Outer Diameter (mm)	Equipment Length (mm)	Weight (kg)	Pressure-bearing Area (cm ²)
AC15	63	KM15 anchor cable anchor device, suitable for 15.24mm anchor cable	42	127	311	18	86.59
AC18	63	KM18 anchor cable anchor device, suitable for 17.8mm anchor cable	45	153	356	25	122.7
AC19	63	Suitable for 18.9mm anchor cable anchor device	45	160	360	28	135
AC22	63	KM22 anchor cable anchor device, suitable for 21.6/21.8mm anchor cable	42	206	356	39	226.9
AC25	63	Suitable for 25mm anchor cable anchor device	48	210	380	42	240.5
AC29	63	Suitable for 28.6mm large-diameter anchor cable anchor device	50	230	400	48	285

Machine Tool Series ·Tensile Tester

LDZ ANCHOR FORCE GAUGE

The LDZ type anchor bolt tensile tester has a rated tension of 10 - 500kN, a wide measuring range, and high precision; the hydraulic system has a rated pressure of 63MPa. Mainly used for testing the anchoring force of anchor bolts in projects such as coal mines and tunnels, it judges the installation quality of anchor bolts by measuring the tension, ensuring support safety and roadway stability.



PRODUCT PARAMETERS

Model	Rated Tension	Rated Pressure	Working Stroke	Center Hole Diameter	Weight (kg)
LDZ 200	200kN	63MPa	60mm	$\varphi 25$ mm	7
LDZ 300	300kN	63MPa	60mm	$\varphi 32$ mm	12
LDZ 400	400kN	63MPa	60mm	$\varphi 36$ mm	14
LDZ 500	500kN	63MPa	60mm	$\varphi 40$ mm	18

Machine Tool Series · Tensile Tester

ANCHOR CABLE DYNAMOMETER

The anchor cable tensile tester has a rated tension of 200 - 700kN, a wide measuring range, and is suitable for anchor cables of 15.24 - 28.6mm. The hydraulic system has a rated pressure of 63MPa and a piston stroke of 80 - 120mm. Used in projects such as mines and tunnels, it tests the anchoring force of anchor cables to ensure support safety.



PRODUCT PARAMETERS

Model	Rated Tension (kN)	Rated Pressure (MPa)	Piston Stroke (mm)	Piston Pressure-bearing Area (cm ²)	Applicable Anchor Cable Diameter (mm)	Overall Weight (kg)	Center Hole Diameter (mm)
LSZ-300/63	300	63	20	55	16 - 24	22	32
LSZ-400/63	400	63	25	63.5	16 - 24	28	36
LSZ-500/63	500	63	25	79.4	16 - 24	32	40
LSZ-600/63	600	63	30	95.2	22 - 32	38	45
LSZ-700/63	700	63	30	111.1	25 - 36	45	50

Machine Tool Series · Dynamometer

MINE ANCHOR CABLE AND BOLT DYNAMOMETER

The mine anchor cable and bolt dynamometer generally has a measuring range of 0 - 600kN, a through hole diameter of 25 - 33mm, and high precision. Used underground in coal mines, it real-time monitors the stress of anchor cables and bolts, prevents accidents such as roof fall, and provides data support for roadway support safety.



PRODUCT PARAMETERS

Model	Rated Load (kN)	Accuracy Class	Overall Weight (kg)	Center Hole Diameter (mm)	Effective Piston Area (cm ²)	Reading Method
MCZ - 200	0 - 200	2.5	2.8	26	54	Pointer Type
MCZ - 300	0-300kN	2.5	3.8	26	73.6	Pointer Type
MCZ - 400	0-400kN	2.5	5.5	26 - 32	85	Pointer Type
MCZ - 500	0-500kN	2.5	7.5	26 - 32	100	Pointer Type
MCZ - 600	0-600kN	2.5	9	32	115	Pointer Type
MCZ - 700	0-500kN	2.5	11	32 - 36	130	Pointer Type
MCZ - 800	0-600kN	2.5	13	36	145	Pointer Type

Machine Tool Series · Dynamometer

INTRINSICALLY SAFE ANCHOR BOLT (CABLE) FORCE GAUGE FOR MINING

The mine intrinsically safe anchor bolt (cable) dynamometer is specially designed for underground coal mines, featuring intrinsic safety and explosion-proof. It accurately monitors the support stress, with intuitive digital display, dust and moisture resistance, and is suitable for various specifications of anchor bolts and cables, ensuring roadway support safety.



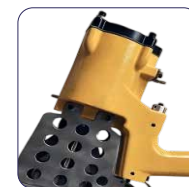
PRODUCT PARAMETERS

Model	Measuring Range (kN)	Measuring Error (F.S.)	Working Voltage	Explosion-proof Type	Shell Protection Class	Weight (kg)
MCS - 300	0 - 300 (25% overload allowed)	±4.0%	DC3.6V	Mine Intrinsically Safe Type ExibI	IP54	Approx. 2.3
MCS - 400	0 - 400 (25% overload allowed)	±4.0%	DC3.6V	Mine Intrinsically Safe Type ExibI	IP54	Approx. 2.3
MCS - 500	0 - 500 (25% overload allowed)	±4.0%	DC3.6V	Mine Intrinsically Safe Type ExibI	IP54	Approx. 2.8
MCS - 600	0 - 600 (25% overload allowed)	±4.0%	DC3.6V	Mine Intrinsically Safe Type ExibI	IP54	Approx. 2.8
MCS - 700	0 - 700 (25% overload allowed)	±4.0%	DC3.6V	Mine Intrinsically Safe Type ExibI	IP54	Approx. 3.2

Machine Tool Series · Jointer

MINE ANCHOR MESH JOINTER

The mine anchor mesh jointer is a special equipment for coal mine roadway support. It is easy to operate, has a firm buckle, quickly connects the anchor mesh and anchor bolts, is dust and vibration resistant, suitable for underground working conditions, and improves support efficiency and operation safety.



PRODUCT PARAMETERS

Model	Minimum Starting Air Pressure (MPa)	Maximum Working Air Pressure (MPa)	Normal Working Air Pressure (MPa)	Maximum Number of Nails Loadable (pieces)	Tensile Strength of Buckle Nail (N/mm ²)	Formed Inner Diameter of Buckle Ring at 0.6MPa (mm)	Nailing Frequency (times/minute)	Net Weight (kg)
LWQ - 7	0.35	0.8	0.6 - 0.8	50	700 - 850	6-7	120	1.5
LWQ - 8	0.35	0.8	0.6 - 0.8	55	700 - 850	7-8	120	1.6
LWQ - 9	0.35	0.8	0.6 - 0.8	60	700 - 850	8-9	120	1.77
LWQ - 10	0.35	0.8	0.6 - 0.8	60	700 - 850	9-10	120	1.78
LWQ - 11	0.35	0.8	0.6 - 0.8	60	700 - 850	10-11	120	1.8
LWQ - 12	0.35	0.8	0.6 - 0.8	70	1700 - 1850	11-12	120	2.1
LWQ - 13	0.35	0.8	0.6 - 0.8	80	1700 - 1850	12-13	120	2.4
LWQ - 15	0.35	0.8	0.6 - 0.8	90	1700 - 1850	14-15	120	2.9
LWQ - 18	0.35	0.8	0.6 - 0.8	95	1700 - 1850	17-18	120	3.3
LWQ - 20	0.35	0.8	0.6 - 0.8	100	1700 - 1850	19-20	120	3.65

Machine Tool Series

PNEUMATIC PICK

The mine pneumatic pick is a special pneumatic tool for coal mine/mine mining and roadway excavation. It has large impact power and small vibration, is dust and moisture resistant, suitable for underground working conditions, easy to operate and efficient, and is applicable to operations such as rock breaking and coal gangue cleaning.



PRODUCT PARAMETERS

Model	Machine Weight (kg)	Cylinder Diameter (mm)	Working Air Pressure (MPa)	Impact Energy (J)	Impact Frequency (Hz)	Air Consumption (L/S)	Air Pipe Inner Diameter (mm)	Overall Length of Machine Body (mm)
G7	7.2	35	0.4 - 0.49	≥ 30	≥ 21.6	≤ 20	19	456
G8	8	35	0.4 - 0.49	≥ 30	≥ 21.6	≤ 20	20	456
G9	9	35	0.4 - 0.49	≥ 30	≥ 21.6	≤ 25	25	456
G10	10	38	0.63	≥ 43	≥ 16	≤ 26	16	580
G11	11	38	0.63	≥ 43	≥ 16	≤ 22	16	580
G12	12	38	0.63	≥ 48	≥ 16	≤ 24	16	580
G15	12	42	0.63	≥ 55	16	26.5	16	580
G16	16	38	0.63	≥ 45	≥ 16	≤ 26	16	570
G20	20	40	0.4 - 0.63	≥ 60	18	≤ 27	19	556

Machine Tool Series

MULTIPLIER

The torque multiplier is an industrial-grade torque amplifying tool. It amplifies torque through gear transmission, suitable for bolt tightening/loosening. It has stable output, labor-saving operation, impact resistance and wear resistance, and is applicable to heavy-load working conditions such as mechanical manufacturing and mine equipment.



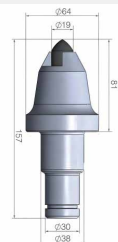
PRODUCT PARAMETERS

Amplification Factor	Model Reference	Input Hexagonal Shaft (mm)	Optional Output Inner Hexagonal Hole (mm)	Machine Weight (kg)	Torque Accuracy	Applicable Scenarios
5x	MZF - 5	11 (22)	22, 24, 27, 28, 30, 32, etc.	6	±4%	Anchor bolt nut tightening underground in coal mines, suitable for small anchor bolt drills, coping with small and medium-sized anchor bolt support operations
8x	Mine Universal Type	11 (22)	22, 24, 27, 28, 30, 32, etc.	8	±4%	Anchor mesh support in coal mine roadways, suitable for most conventional anchor bolt drills, balancing torque and portability
10x	Mine Universal Type	19 (22)	22, 24, 27, 28, 30, 32, etc.	10	±4%	High-torque anchor bolt installation in coal mines, suitable for high-power anchor bolt drills, meeting the torque requirements of high-strength support

Pick Series

COAL MINING MACHINE PICKS - COAL MINING TOOTH SERIES

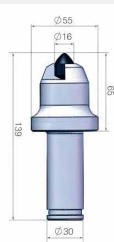
Common models of coal cutting picks include U47, U95, U170, etc. The pick body is usually made of 42CrMo steel, featuring high strength and good toughness; the cutter head is made of tungsten carbide alloy, with high hardness, heat resistance and corrosion resistance. Mainly used for coal mine mining and roadway excavation, it is suitable for shearers and roadheaders, and the corresponding model is selected according to the coal seam hardness.



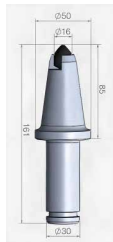
U47



U82



U84



U85



U92



U94



U95



U170

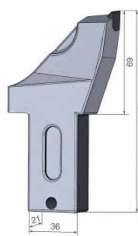
PRODUCT PARAMETERS

Model	Overall Height (mm)	Maximum Diameter (mm)	Alloy Size (mm)	Pick Sleeve Diameter (mm)	Surface Hardness (HRC)	Impact Toughness (AKU J/cm ²)	Brazed Joint Shear Strength (Mpa)
Series U47	157	64	19/14	30	Tooth tip ≥ 40 Tooth shank 38-42	≥ 49	≥ 180
Series U82	152	50	22/19	30			
Series U84	139/142	55/50	16/19	30			
Series U85	161/195	50/55	16	30/35			
Series U94	183/178/182	55/54/55	22/19	35			
Series U95	182.5/180.5/128.5	54	23	35			
Series U170	222	62/82	25/22/23	35			

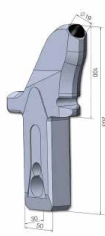
Pick Series

SHEARER PICK - CUTTER PICK

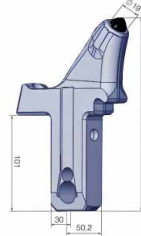
The mine cutter pick is a key accessory of mining machinery, used for efficient cutting of coal and rock. Its steel body is mostly made of high-quality alloy steel such as 42CrMo, through special heat treatment, with a hardness of 40-45HRC, wear resistance and impact resistance. The cutter head is inlaid with hard alloy, with extremely high hardness. The cutter pick is scientifically designed, with strong cutting force, which can reduce equipment power consumption and improve mining efficiency.



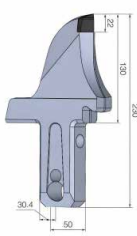
13#Cutter Pick



55#Cutter Pick



GC-20141



Hydra Cutter Pick

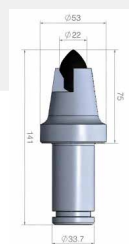
PRODUCT PARAMETERS

Model	Hardness	Features	Applications
13#	Cone Hardness: HRC > 65; Pick Shank Hardness: HRC28 - 32; Surface Hardness: HV > 2000; Overall Hardness can reach 40 - 45 degrees after special heat treatment, with basically no oxidation on the surface	Generally has good wear resistance and impact resistance	Often used in mine machinery such as shearers for cutting coal and other operations
55#	Pick Body Hardness can reach above 65 degrees; Steel Body Hardness reaches about 40 degrees after heat treatment; Pick Head adopts isothermal quenching process	May have water holes, with spray dust removal function; Large cutting depth, which can reduce shearer power consumption; No pick sleeve, which can reduce costs	Mainly used as a direct coal-breaking tool on shearers, suitable for underground fully mechanized mining and other scenarios

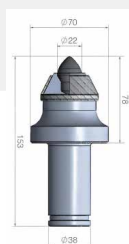
Pick Series

ROADHEADER PICK - ROADHEADER PICK SERIES

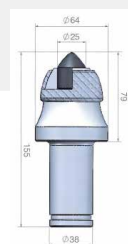
The S series mine roadheader pick body is made of 42CrMo steel, with strong toughness; the cutter head is inlaid with tungsten carbide alloy, with high hardness. Suitable for mine roadway and tunnel operations, it is suitable for roadheaders, and the model is selected according to the rock properties to improve operation efficiency.



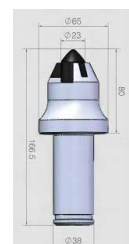
S100



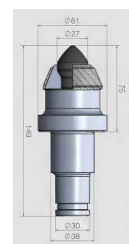
S120



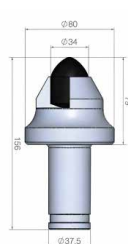
S135



S150



S160



S260

PRODUCT PARAMETERS

Model	Overall Height (mm)	Maximum Diameter (mm)	Alloy Size (mm)	Pick Sleeve Diameter (mm)	Surface Hardness (HRC)	Impact Toughness (AKU J/cm ²)	Brazed Joint Shear Strength (Mpa)
Series S100	141/143	53/44.5	22/19	33.7/33.8/33.5	Pick Head ≥ 40; Pick Shank 38-42	≥ 49	≥ 180
Series S120	153/139	70/55	25/22	38/30			
Series S135	155/157/166.5	64/62/65	30/28/25/22	38/35			
Series S150	166.5/153	65/70	30/28/25/22	38			
Series S160	149/150	61/65	30/28/25/22	30			
Series S260	156/164.5/165	80/65	30/28/25	37.5/38			
Series U170	222	62/82	25/22/23	35			

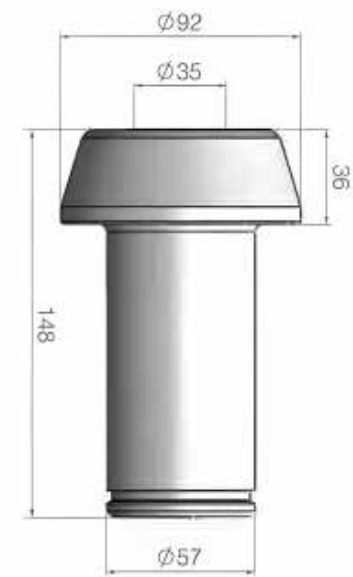
Pick Series

PICK SUPPORTING - TOOTH BOOT SERIES

The mine pick boot is an important accessory of the mine pick, generally installed on the top of the pick, playing the role of protecting the pick and enhancing wear resistance. During coal mining and other operations, the pick will continuously contact with coal, rock and other media and generate friction. The pick boot can share part of the wear, extend the service life of the pick, and ensure the continuous and efficient operation of the mining equipment.



Various square types for mining



Various round types for mining

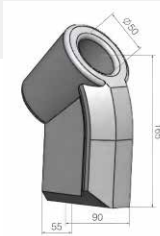
Pick Series

PICK ACCESSORIES - PICK HOLDER SERIES

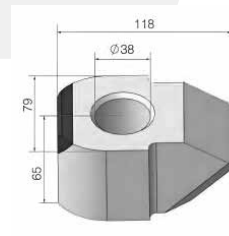
The mine pick holder is a key component of shearers and roadheaders, directly welded to the working end of the equipment. Forged from high-strength alloy steel, through heat treatment process, it has both high hardness and strong toughness. Suitable for various models of picks, it is firmly installed, can withstand strong impact, can greatly improve mining efficiency, reduce equipment loss, and extend service life.



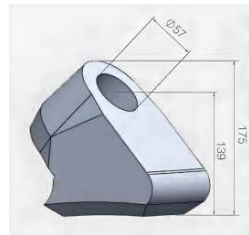
Pick Holder U82



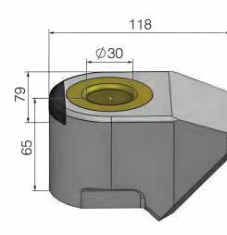
Pick Holder U92



Pick Holder S150



Pick Holder U170



Pick Holder S200

PRODUCT PARAMETERS

Model	Applicable Pick Diameter (mm)	Pick Holder Length (mm)	Pick Holder Width (mm)	Pick Holder Height (mm)	Mounting Hole Diameter (mm)	Material	Hardness (HRC)
U82	30 - 32	110 - 120	45 - 50	70 - 80	32 - 33	42CrMo , etc.	40 - 50
U92	32 - 35	120 - 130	50 - 55	75 - 85	35 - 36	42CrMo , etc.	42 - 52
U170	35 - 38	140 - 150	60 - 65	90 - 100	38 - 39	42CrMo alloy, etc.	45 - 55
S150	30 - 32	105 - 115	40 - 45	65 - 75	32 - 33	35CrMnSi , etc.	40 - 48
S200	32 - 35	125 - 135	55 - 60	80 - 90	35 - 36	35CrMnSi , etc.	42 - 50

Pick Series

POLYCRYSTALLINE DIAMOND CUTTING TEETH

The polycrystalline diamond pick adopts high-temperature and high-pressure synthesis process, integrating the high wear resistance of diamond and the high impact resistance of alloy. Its service life is 5-8 times longer than that of traditional products, suitable for mine mining and tunnel excavation, efficient, energy-saving, safe and reliable.



U95PDC-25L20



U95PDC-30L22



U170PDC-25L20



U170PDC-30L22



S135PDC-30L



S135PDC-30L20

PRODUCT PARAMETERS

Model	Diameter (mm)	Height (mm)	Impact Resistance (J)	Applicable Pick Specification	Application Stratum
φ1622	16±0.01	22±0.5	≥ 2000	U82、U85、U92	软岩
φ2124	21±0.01	24±0.5	≥ 2400	U84、U94、U92	中软
φ2628	25±0.01	28±0.5	≥ 7500	U95、U170	中硬
φ3132	30±0.01	32±0.5	≥ 9000	U95、U170、S135	硬岩

Drill Bit Series

PDC ANCHOR BOLT DRILL BIT - STANDARD TYPE

The ordinary type of mine PDC drill bit adopts a two-wing design, with diamond compact welded on the cutter wings. Suitable for soft to medium-hard rock stratum with $f \leq 8$, it is mainly used for drilling anchor mesh support holes in coal mines.



Ordinary Φ27-32 Half-piece (6F)



Ordinary Φ27-36 Full-piece (10F)



Ordinary Φ38-46mm 1.5-piece (12F)



Super Strong Φ27-32 Full-piece (White Sandstone) (15F)

PRODUCT PARAMETERS

Specification	Drilling Pressure (Kg)	Rotational Speed (rpm)	Pump Flow (l/min)	Wear Ratio (*10000)	Impact Resistance (J)	Applicable Stratum		
						Ordinary Type	Reinforced Type	Super Strong Type
Φ25	300-700	300-350	150-200	>80	>43	F6-F8	F8-F10	Above F10
Φ27	300-700	300-350	150-200	>80	>43	F6-F8	F8-F10	Above F10
Φ28	300-700	300-350	150-200	>80	>43	F6-F8	F8-F10	Above F10
Φ30	300-700	300-350	150-200	>80	>43	F6-F8	F8-F10	Above F10
Φ32	300-700	300-350	150-200	>80	>43	F6-F8	F8-F10	Above F10
Φ36	300-700	300-350	150-200	>80	>43	F6-F8	F8-F10	Above F10
Φ38	300-700	300-350	150-200	>80	>43	F6-F8	F8-F10	Above F10
Φ42	300-700	300-350	150-200	>80	>43	F6-F8	F8-F10	Above F10
Φ46	300-700	300-350	150-200	>80	>43	F6-F8	F8-F10	Above F10

Drill Bit Series

PDC ANCHOR BOLT DRILL BIT - INTEGRATED TYPE



Integrated Hexagonal Drill Bit Φ27-36 Full-piece

The integrated hexagonal full-piece mine PDC drill bit is mostly two-winged, integrally formed of high-quality alloy steel, easy to install and disassemble. High-hardness diamond compact is selected. Suitable for stratum with $f < 12$, it is often used for coal mine anchoring and water exploration drilling operations.



Integrated PDC Drill Bit Φ27-36 Full-piece (15F)

The integrated PDC drill bit has a diameter range of Φ27 - 36mm, specially designed for mine operations. The drill bit has no moving parts as a whole, with a stable structure. It adopts a high-strength alloy steel body and is matched with high-quality diamond compact cutting edges, featuring high hardness, strong wear resistance and good impact resistance. It can drill efficiently in soft to medium-hard stratum, helping to improve mining efficiency.

PRODUCT PARAMETERS

Specification	Drilling Pressure (Kg)	Rotational Speed (rpm)	Pump Flow (l/min)	Wear Ratio (*10000)	Impact Resistance (J)	Applicable Stratum		
						Ordinary Type	Reinforced Type	Super Strong Type
Φ25	300-700	300-350	150-200	>80	>43	F6-F8	F8-F10	Above F10
Φ27	300-700	300-350	150-200	>80	>43	F6-F8	F8-F10	Above F10
Φ28	300-700	300-350	150-200	>80	>43	F6-F8	F8-F10	Above F10
Φ30	300-700	300-350	150-200	>80	>43	F6-F8	F8-F10	Above F10
Φ32	300-700	300-350	150-200	>80	>43	F6-F8	F8-F10	Above F10
Φ36	300-700	300-350	150-200	>80	>43	F6-F8	F8-F10	Above F10
Φ38	300-700	300-350	150-200	>80	>43	F6-F8	F8-F10	Above F10
Φ42	300-700	300-350	150-200	>80	>43	F6-F8	F8-F10	Above F10
Φ46	300-700	300-350	150-200	>80	>43	F6-F8	F8-F10	Above F10

Drill Bit Series

PDC ANCHOR BOLT DRILL BIT - SUPER STRONG FULL-PANEL WHITE SANDSTONE VERSION

The super strong full-piece mine PDC drill bit for white sandstone is mostly three-winged. High-quality diamond compact is selected. Specially designed for white sandstone stratum, it is suitable for complex and hard white sandstone with $f=12-16$, often used for coal mine anchoring and water exploration drilling operations, efficient and durable. The negative rake angle of the cutting teeth is $-10^{\circ} \sim -20^{\circ}$ for medium-hard stratum such as white sandstone, usually -15° , which can improve the working stiffness of the compact.



Super Strong Full-piece Mine PDC Drill Bit for White Sandstone (15F)

PRODUCT PARAMETERS

Specification	Drilling Pressure (Kg)	Rotational Speed (rpm)	Pump Flow (l/min)	Wear Ratio (*10000)	Impact Resistance (J)	Applicable Stratum		
						Ordinary Type	Reinforced Type	Super Strong Type
Φ25	300-700	300-350	150-200	>80	>43	F6-F8	F8-F10	Above F10
Φ27	300-700	300-350	150-200	>80	>43	F6-F8	F8-F10	Above F10
Φ28	300-700	300-350	150-200	>80	>43	F6-F8	F8-F10	Above F10
Φ30	300-700	300-350	150-200	>80	>43	F6-F8	F8-F10	Above F10
Φ32	300-700	300-350	150-200	>80	>43	F6-F8	F8-F10	Above F10
Φ36	300-700	300-350	150-200	>80	>43	F6-F8	F8-F10	Above F10
Φ38	300-700	300-350	150-200	>80	>43	F6-F8	F8-F10	Above F10
Φ42	300-700	300-350	150-200	>80	>43	F6-F8	F8-F10	Above F10
Φ46	300-700	300-350	150-200	>80	>43	F6-F8	F8-F10	Above F10

Drill Bit Series

CONCAVE PDC DRILL BIT



Reinforced Concave Three-wing (Steel Body)



Reinforced Concave Four-wing (Steel Body)

The concave PDC steel body drill bit has various common diameters such as 65mm, 75mm, 94mm, etc. The cutter wings are mostly three-wing, four-wing and other designs, matched with diamond compact cutter teeth, with a hardness of about 7000HV. The steel body is made of high-strength alloy steel, suitable for drill rods of 42 - 73mm.



Reinforced Concave Three-wing (Sintered Body)



Reinforced Concave Four-wing (Sintered Body)



Reinforced Flat Head (Sintered Body)



Reinforced Arc Angle (Sintered Body)

The concave PDC sintered body drill bit usually has various optional diameters such as Φ94, Φ113, Φ133, Φ153, etc. Matched with diamond compact, it has both the high hardness of diamond and the impact resistance of hard alloy, suitable for soft and hard rock stratum with rock stratum coefficient (f) ≤ 16 .

PRODUCT PARAMETERS

Specification	Drilling Pressure (Kg)	Rotational Speed (rpm)	Pump Flow (l/min)	Wear Ratio (*10000)	Impact Resistance (J)	Applicable Stratum		
						Ordinary Type	Reinforced Type	Super Strong Type
Φ55	320-800	250-350	130-180	>100	>45	F8-F10	F10-F12	Above F12
Φ65	480-1200	200-300	130-180	>100	>43	F8-F10	F10-F12	Above F12
Φ75	480-1200	200-300	150-200	>100	>43	F8-F10	F10-F12	Above F12
Φ94	640-1600	150-250	200-250	>100	>43	F8-F10	F10-F12	Above F12
Φ113	880-2200	120-200	200-300	>120	>60	F8-F10	F10-F12	Above F12
Φ133	1500-3000	100-200	500-850	>120	>60	F8-F10	F10-F12	Above F12
Φ153	1500-3000	100-200	500-850	>120	>60	F8-F10	F10-F12	Above F12
Φ173	1800-4000	100-200	600-1200	>120	>60	F8-F10	F10-F12	Above F12
Φ193	1800-4000	100-200	600-1200	>120	>60	F8-F10	F10-F12	Above F12
Φ250	2200-4500	100-200	750-1400	>120	>60	F8-F10	F10-F12	Above F12
Φ300	2400-5000	100-200	1000-1500	>120	>60	F8-F10	F10-F12	Above F12

Drill Bit Series

PDC GEOLOGICAL CORING DRILL BIT

The common diameters of PDC coring drill bits include $\Phi 75$, $\Phi 94$, $\Phi 113$, $\Phi 133$, $\Phi 153$ mm, etc. The cutting teeth are mostly high-quality diamond compact, divided into specifications such as 1304 and 1308. The number of cutter wings ranges from 5 to 16, suitable for soft to medium-hard stratum with $f \leq 14$.



5-WING



6-WING



5-WING

PRODUCT PARAMETERS

Specification	Drilling Pressure (Kg)	Rotational Speed (rpm)	Pump Flow (l/min)	Wear Ratio (*10000)	Impact Resistance (J)	Applicable Stratum		
						Ordinary Type	Reinforced Type	Super Strong Type
$\Phi 55$	320-800	250-350	130-180	>100	>45	F8-F10	F10-F12	Above F12
$\Phi 65$	480-1200	200-300	130-180	>100	>43	F8-F10	F10-F12	Above F12
$\Phi 75$	480-1200	200-300	150-200	>100	>43	F8-F10	F10-F12	Above F12
$\Phi 94$	640-1600	150-250	200-250	>100	>43	F8-F10	F10-F12	Above F12
$\Phi 113$	880-2200	120-200	200-300	>120	>60	F8-F10	F10-F12	Above F12
$\Phi 133$	1500-3000	100-200	500-850	>120	>60	F8-F10	F10-F12	Above F12
$\Phi 153$	1500-3000	100-200	500-850	>120	>60	F8-F10	F10-F12	Above F12
$\Phi 173$	1800-4000	100-200	600-1200	>120	>60	F8-F10	F10-F12	Above F12
$\Phi 193$	1800-4000	100-200	600-1200	>120	>60	F8-F10	F10-F12	Above F12

Drill Bit Series

PDC REAMING DRILL BIT

PDC reaming drill bits are available in diameter specifications ranging from $\phi 98$ mm to $\phi 270$ mm, with three strength grades: ordinary, reinforced, and high-strength. Compatible with cable-passing drill pipes, they have a pump flow rate of 120 - 1500 l/min. Suitable for coalfield, petroleum drilling and other fields, they are used for reaming in soft to medium-hard formations (Grade 4-8) with high efficiency and long service life.



PRODUCT PARAMETERS

Specification	Drilling Pressure (Kg)	Rotational Speed (rpm)	Pump Flow (l/min)	Wear Ratio (*10,000)	Impact Resistance (J)	Applicable Formation		
						Ordinary Type	Reinforced Type	High-Strength Type
$\Phi 75$	480-1200	200-300	150-200	>100	>43	F8-F10	F10-F12	Above F12
$\Phi 94$	640-1600	150-250	200-250	>100	>43	F8-F10	F10-F12	Above F12
$\Phi 113$	880-2200	120-200	200-300	>120	>60	F8-F10	F10-F12	Above F12
$\Phi 133$	1500-3000	100-200	500-850	>120	>60	F8-F10	F10-F12	Above F12
$\Phi 153$	1500-3000	100-200	500-850	>120	>60	F8-F10	F10-F12	Above F12
$\Phi 173$	1800-4000	100-200	600-1200	>120	>60	F8-F10	F10-F12	Above F12
$\Phi 193$	1800-4000	100-200	600-1200	>120	>60	F8-F10	F10-F12	Above F12

Drill Bit Series

SCRAPER DRILL BITS

Equipped with polycrystalline diamond compact (PDC), the drag bit combines the high hardness of diamond and the impact resistance of cemented carbide, with 3-6 wings. Suitable for soft formations such as clay, shale, and gypsum layers, it crushes rocks through rotational cutting in petroleum, natural gas drilling and geological exploration, featuring fast drilling speed.



Reinforced 120mm



Reinforced 193mm



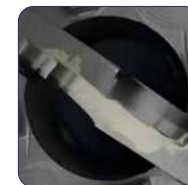
PRODUCT PARAMETERS

Specification	Drilling Pressure (Kg)	Rotational Speed (rpm)	Pump Flow (l/min)	Wear Ratio (*10,000)	Impact Resistance (J)	Applicable Formation		
						Ordinary Type	Reinforced Type	High-Strength Type
Φ75	480-1200	200-300	150-200	>100	>43	F8-F10	F10-F12	Above F12
Φ94	640-1600	150-250	200-250	>100	>43	F8-F10	F10-F12	Above F12
Φ113	880-2200	120-200	200-300	>120	>60	F8-F10	F10-F12	Above F12
Φ133	1500-3000	100-200	500-850	>120	>60	F8-F10	F10-F12	Above F12
Φ153	1500-3000	100-200	500-850	>120	>60	F8-F10	F10-F12	Above F12
Φ173	1800-4000	100-200	600-1200	>120	>60	F8-F10	F10-F12	Above F12
Φ193	1800-4000	100-200	600-1200	>120	>60	F8-F10	F10-F12	Above F12

Drill Bit Series

PDC OPEN AND CLOSE DRILL BIT

The mine PDC four-wing open-close drill bit has 4 wings. The cutting teeth are made of polycrystalline diamond, and the steel body is made of high-strength alloy steel with strong stability. Compatible with various drill pipe models, it is suitable for soft to medium-hard formations such as mudstone, sandstone, and interbedded limestone.



PRODUCT PARAMETERS

Specification	Drilling Pressure (Kg)	Rotational Speed (rpm)	Pump Flow (l/min)	Wear Ratio (*10,000)	Impact Resistance (J)	Applicable Formation		
						Ordinary Type	Reinforced Type	High-Strength Type
Φ94	640-1600	150-250	200-250	>100	>43	F8-F10	F10-F12	Above F12
Φ113	880-2200	120-200	200-300	>120	>60	F8-F10	F10-F12	Above F12
Φ133	1500-3000	100-200	500-850	>120	>60	F8-F10	F10-F12	Above F12
Φ153	1500-3000	100-200	500-850	>120	>60	F8-F10	F10-F12	Above F12

Drill Bit Series

ANTI-BURST DRILL BIT

Available in various models such as $\Phi 46\text{mm}$ and $\Phi 76\text{mm}$, the outburst-preventing drill bit has a drilling diameter corresponding to the model size, a maximum drilling depth of 30-300 meters, a drilling angle of 60° , and a spindle speed of 200 rpm. Used with outburst-preventing drilling rig bits and high-efficiency outburst-preventing drill pipes, it is mainly applied to water exploration, gas drainage, and pressure relief hole operations in coal roadways and semi-coal rock roadways underground coal mines.



PRODUCT PARAMETERS

Specification			Wing Form	Structure
Diameter	Regular Connection Size			
Φ42	T24x5	F13-14	2-3	Integral Type
Φ45	T24x5	F13-18	2-3	Integral Type
Φ55	T24x5	F13-18	4	Two-Stage Combination
Φ65	T24x5	F13-18	4-5	Two-Stage Combination
Φ75	T33x4.23	F13-18	4-5	Two-Stage Combination
Φ76	T33x4.23	F18-24	4-5	Two-Stage Combination
Φ82	T42x5.08	F18-24	4-5	Two-Stage Combination
Φ85	T42x5.08	F18-24	4-5	Two-Stage Combination
Φ89	T42x5.08	F24-32	5-7	Three-Stage Combination
Φ95	T55x5.08	F24-32	5-7	Three-Stage Combination
Φ110	T55x5.08	B35-45	5-7	Three-Stage Combination
Φ125	T55x5.08	B35-45	5-12	Four-Stage Combination
Φ135	T55x5.09	B35-46	5-13	Four-Stage Combination

Drill Bit Series

COAL AND ROCK DRILL BIT



Coal Drill Bit



Rock Drill Bit

Common specifications of mine coal and rock drill bits range from $\Phi 28\text{mm}$ to $\Phi 42\text{mm}$, used with hollow coal drill pipes or anchor cable drill pipes. The two wings are made of cemented carbide or polycrystalline diamond compact. Mainly used for drilling anchoring support holes in soft to medium-hard rocks in coal mines, suitable for roadways with rock hardness $f \leq 8$.

PRODUCT PARAMETERS

Specification		Wing Form	Structure
Diameter	Regular Connection Size		
$\Phi 27$	M14x1.5	2	Integral Type
$\Phi 28$		2	
$\Phi 30$		2	
$\Phi 32$		2	
$\Phi 34$		2	
$\Phi 36$		2	
$\Phi 38$		2	
$\Phi 42$		2	
$\Phi 45$		2	

Drill Bit Series · Pneumatic Drill Bit

CYLINDRICAL TOOTH TYPE AIR DRILL BIT

The mine button-type pneumatic drill bit body is formed by hot extrusion of 42CrMo steel, with specifications ranging from $\varnothing 28\text{mm}$ to $\varnothing 41\text{mm}$. The top cutting head is inlaid with cemented carbide buttons, which can effectively crush rocks. It has the advantages of fast drilling speed, long service life, anti-sticking, and dust reduction, suitable for rock drilling operations such as mine mining, tunnel excavation, and hydropower engineering, helping to efficiently complete drilling work.



PRODUCT PARAMETERS

Drill Bit Diameter (mm)	Alloy (mm)	Tail Hole Taper	Weight (kg)
	Height × Thickness		
28	4×7	12	0.22
32	4×8	12	0.27
35	5×8	12	0.35
38	4×9	12	0.37
40	4×10	12	0.4
41	5×9	12	0.45
43	3×10	12	0.41

Drill Bit Series · Air drill bit

ONE-PIECE AIR DRILL BIT

The mine straight-type pneumatic drill bit body is formed by hot extrusion of 42CrMo steel, with a hard and wear-resistant alloy top cutting head. Specifications range from $\varnothing 28\text{mm}$ to $\varnothing 42\text{mm}$. Often used with B21 drill pipes and rock drills, it is mainly applied to drilling rock or coal seams in mine mining, tunnel excavation and other projects.



PRODUCT PARAMETERS

Drill Bit Diameter (mm)	Alloy (mm)	Tail Hole Taper	Weight (kg)
	Height × Thickness		
26	12×6	7	0.19
28	12×8	7	0.2
32	14×8	7	0.22
34	14×8	7	0.27
36	15×10	7	0.33
38	15×10	7	0.36
38	18×10	7	0.36
	14×9	7	0.36
	14×8	7	0.36
	15×10	7	0.38
40	18×10	7	0.38
	14×9	7	0.38
	14×8	7	0.38
	15×10	7	0.4
43	18×10	7	0.4
	14×9	7	0.4

Drill Bit Series · Air drill bit

CROSS DRILL BIT

The mine cross-type pneumatic drill bit body is formed by hot extrusion of 42CrMo steel, with a hard and wear-resistant alloy top cutting head. Specifications range from φ28mm to φ42mm. Often used with B21 drill pipes and rock drills, it is mainly applied to drilling rock or coal seams in mine mining, tunnel excavation and other projects.



PRODUCT PARAMETERS

Drill Bit Diameter (mm)	Alloy (mm)	Tail Hole Taper	Weight (kg)
	Height × Thickness		
32	12×8	7	0.3
34	12×8	7	0.35
36	12×8	7	0.37
38	12x8	7	0.39
40	12×8	7	0.4
42	14×8	7	0.41
45	14×8	7	0.47

Drill Pipe Series

ANCHOR DRILL ROD

Made of high-quality hollow hexagonal steel such as 55SiMnMoV, the anchor cable drill pipe undergoes vacuum quenching and tempering treatment, with strong bending resistance. Used with anchor cable drill bits and connectors for mine roadway support and tunnel excavation drilling, Type I is suitable for soft rock and Type II for hard rock.



PRODUCT PARAMETERS

Specification			Main Purpose	Remarks
Diameter	Length	Thread Specification		
B19	500~3000	T16x6-M14	Drilling anchor bolt holes	Used individually
B19	500~3000	T16x6-T16	Drilling anchor cable holes	Connected by connectors
B19	500~3000	T18x6-T18	Drilling anchor cable holes	Connected by connectors
B22	500~ 6000	T19x6-M16	Drilling anchor bolt holes	Used individually
B22	500~6000	T19x6-T19	Drilling anchor cable holes	Connected by connectors
B22	500~6000	T20x6-T20	Drilling anchor cable holes	Connected by connectors
B25	500~6000	T22x6-M18	Drilling anchor bolt holes	Used individually
B25	500~ 6000	T22x6-T22	Drilling anchor cable holes	Connected by connectors
B25	500~6000	T24x6-T24	Drilling anchor cable holes	Connected by connectors

Drill Pipe Series

BOLTER DRILL ROD

Made of high-strength alloy steel, the bolter-miner drill pipe undergoes quenching and tempering treatment to enhance toughness and wear resistance, with a joint torsional strength exceeding 8000N·m. Mainly used for coal mine roadway excavation and support, it cooperates with bolter-miners to simultaneously complete rock breaking, excavation, anchor bolt drilling and support operations, improving roadway construction efficiency and safety.



Square Drill Pipe

Four-Arm Bolt Drill Conical Drill Pipe

PRODUCT PARAMETERS

Helix Diameter	Rod Body Diameter	Joint	Theoretical Torque (N.m)	Reference Drilling Depth (m)	Supporting Drilling Rig	Drill Bit Diameter
Φ28mm	Φ18mm	F12 M16	150-200N.m	1-10m	ZQSJ-50/1.6 ZQSJ-65/2.5 ZQSJ-90/2.4 ZQSJ-100/2.5 ZQSJ-140/4.1 ZQJC-160/4.6	Φ43mm
Φ30mm	Φ18mm	F12 M18	150-200N.m	1-15m		Φ43mm
Φ38mm	Φ21mm	F14 Tr16	150-350N.m	5-30m		Φ43mm
Φ40mm	Φ22mm	F14 Tr16	150-350N.m	5-30m		Φ43mm
Φ67mm	Φ27mm	F18 F24	250-350N.m	10-120m		Φ76mm
Φ69mm	Φ27mm	F18 F24	250-350N.m	10-120m		Φ76mm
Φ72mm	Φ32mm	F24 F26	350-450N.m	50-120m		Φ82、84mm
Φ75mm	Φ34mm	F24 F26	350-450N.m	50-120m		Φ89、94mm
Φ89mm	Φ50mm	F24 F32	350-450N.m	50-150m	ZDY-1200	Φ110mm
Φ98mm	Φ73mm	B41 B45	10000-12000N.m	100-300m	ZDY-1500	Φ110、120mm
Φ100mm	Φ60mm	B41 B45	8000-12000N.m	100-220m	ZDY-1900	Φ113、125mm
Φ113mm	Φ73mm	B41 B45	8000-12000N.m	100-300m	ZDY-4000	Φ133、146mm

Drill Pipe Series

COAL DRILL ROD

The coal drill pipe body is a hot-forged twist spiral made of alloy steel, undergoing vacuum quenching and tempering treatment. Mainly used for drilling during coal mine mining, it is used with coal electric drills and other drilling rigs.



Solid Twist Coal Drill Pipe (Dry Type)

Hollow Twist Coal Drill Pipe (Wet Type)

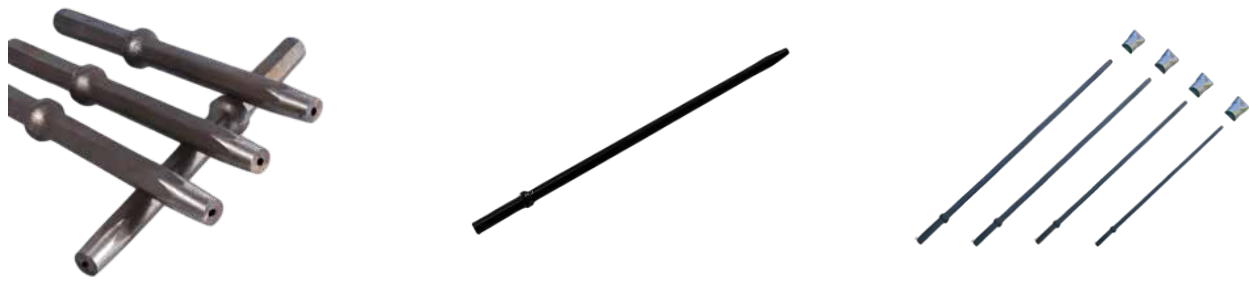
PRODUCT PARAMETERS

Specification				Theoretical Torque (N·m)	Connection Method
Helix Diameter	Rod Body Diameter	Length	Joint Size		
Φ26mm	Φ16mm	500-3000mm	M16×1.5	100-150N·m	Threaded Connection
Φ28mm	Φ16-18mm	500-3000mm	F12/M18×1.5	100-150N·m	Square/Threaded
Φ30mm	Φ16-18mm	500-3000mm	F12/M18×1.5	100-150N·m	Square/Threaded
Φ32mm	Φ18-22mm	500-3000mm	F12/M18×1.5	100-150N·m	Square/Threaded
Φ38mm	Φ21-22mm	500-3000mm	F14/Tr16	150-350N·m	Square/Threaded
Φ40mm	Φ21-22mm	500-3000mm	F14/Tr16	150-350N·m	Square/Threaded
Φ42mm	Φ21-22mm	500-3000mm	F14/Tr16	150-350N·m	Square/Threaded

Drill Pipe Series · Pneumatic drill rod

AIR DRILL ROD (FINISHED DRILL)

Common specifications of pneumatic drill pipes range from B22mm to B28mm, with lengths of 0.6-6 meters. Made of high-quality alloy steel, they undergo heat treatment and quenching and tempering process, featuring high strength and wear resistance. Used with rock drills, they are mainly applied to efficient rock drilling operations in mine roadway excavation, tunnel construction, slope support and other projects.



PRODUCT PARAMETERS

Rod Body	Taper	Tail Shank	Length (mm)	Length (ft/in)	Weight (kg)
H22	7	22x108 mm (7/8"x4 1/4")	500-8000	1'5/8"-26'3"	1.6-24.5
H22	11	22x108 mm (7/8"x4 1/4")	610-8000	2'-26'3"	2.2-24.74
H22	12	22x108 mm (7/8"x4 1/4")	610-8000	2'-26'3"	2.2-24.74

Drill Pipe Series · Pneumatic drill rod

JUMBO DRILL PIPE

Specially designed for mine jumbo drilling, the mine jumbo drill pipe is made of high-strength alloy steel, with wear resistance and impact resistance. The rod body diameter ranges from 26mm to 89mm, with customizable length and various threaded connections, compatible with different jumbo equipment. Suitable for drilling in hard rock, coal seams, etc., it is efficient and stable, ensuring the safety of mine mining, tunnel construction and other operations, and extending service life.



PRODUCT PARAMETERS

Spiral Diameter	Rod Diameter	Joint	Theoretical Torque	Reference Drilling Depth	Matching Drilling Rig	Drill Bit Diameter
Φ28mm	Φ18mm	F12 M16	150-200N.m	1-10m	ZQSJ-50/1.6 ZQSJ-65/2.5 ZQSJ-90/2.4 ZQSJ-100/2.5 ZQSJ-140/4.1 ZQJC-160/4.6	Φ43mm
Φ30mm	Φ18mm	F12 M18	150-200N.m	1-15m		Φ43mm
Φ38mm	Φ21mm	F14 Tr16	150-350N.m	5-30m		Φ43mm
Φ40mm	Φ22mm	F14 Tr16	150-350N.m	5-30m		Φ43mm
Φ67mm	Φ27mm	F18 F24	250-350N.m	10-120m		Φ76mm
Φ69mm	Φ27mm	F18 F24	250-350N.m	10-120m		Φ76mm
Φ72mm	Φ32mm	F24 F26	350-450N.m	50-120m	ZDY-1200 ZDY-1500 ZDY-1900 ZDY-4000	Φ82、84mm
Φ75mm	Φ34mm	F24 F26	350-450N.m	50-120m		Φ89、94mm
Φ89mm	Φ50mm	F24 F32	350-450N.m	50-150m		Φ110mm
Φ98mm	Φ73mm	B41 B45	10000-12000N.m	100-300m		Φ110、120mm
Φ100mm	Φ60mm	B41 B45	8000-12000N.m	100-220m		Φ113、125mm
Φ113mm	Φ73mm	B41 B45	8000-12000N.m	100-300m		Φ133、146mm

Drill Pipe Series

CABLE DIRECTIONAL DRILLING ROD

The cable-passing directional drill pipe has a diameter of 70-89mm, a length of 1.5-3m, a steel grade of S135, and excellent insulation. It has both drill tool force transmission and signal transmission functions, used for directional drilling operations such as coal mine gas drainage, geological exploration, and underground pipeline laying, ensuring precise guidance and data transmission.



Grooved Cable-Passing Directional Drill Pipe



Plain Cable-Passing Directional Drill Pipe



Triangular Grooved Cable-Passing Directional Drill Pipe

PRODUCT PARAMETERS

Diameter	Length	Water Pressure Resistance (Mpa)	Insulation Connector Resistance (MQ)	Signal Transmission Conductor Resistance (Ω)	Drill Pipe Helix	Steel Grade
Φ70mm	1.5m-3m	7-10Mpa	≥ 500MQ	0.5-1.50	Plain Type, Body Milled Type	G105
Φ73mm	1.5m-3m	7-10Mpa	≥ 500MQ	0.5-1.50		G105
Φ76mm	1.5m-3m	7-10Mpa	≥ 500MQ	0.5-1.50		G105
Φ89mm	1.5m-3m	7-10Mpa	≥ 500MQ	0.5-1.50		G105

Drill Pipe Series

HOLE EXPANSION DIRECTIONAL DRILL PIPE

Made of high-strength steel grade S135 or above, the reaming directional drill pipe undergoes quenching and tempering treatment with high joint strength. The male joint, female joint and pipe body are connected by friction welding, with a stable structure. Mainly used for reaming large-diameter directional long drill holes underground coal mines, it is also suitable for soft coal seams and various coal-rock deep hole drilling.



Grooved Reaming Directional Drill Pipe



Plain Reaming Directional Drill Pipe

PRODUCT PARAMETERS

Specification (mm)	Maximum Outer Diameter (mm)	Length (mm)	Steel Grade	Reaming Range (mm)	Recommended Torque (N·m)
Φ73*8	73	1500-3000	S135	Φ100-Φ160	≤ 9000
Φ89*9.35	89	1500-3000	S135	Φ120-Φ250	≤ 12000
Φ95*10	95	1500-3000	S135	Φ120-Φ300	≤ 16000
Φ127*9.19	127	1500-3000	S135	Φ120-Φ300	≤ 35000

Drill Pipe Series

NON-MAGNETIC DRILL PIPE

The non-magnetic drill pipe is mostly made of non-magnetic stainless steel or Monel alloy, with a magnetic permeability below 1.05μH/m. It has a tensile strength exceeding 800MPa and strong torsional performance. Mainly used for logging while drilling in petroleum and natural gas drilling, it provides precise data for directional drilling, avoids magnetic field interference, and ensures the accuracy of trajectory measurement and guidance.



Grooved Non-Magnetic Drill Pipe



Plain Non-Magnetic Drill Pipe

PRODUCT PARAMETERS

Model	Material	Wall Thickness	Fixed Length	Magnetic Permeability	Tensile Strength (MPa)	Yield Strength (MPa)	Tensile Capacity (kN)	Torsional Capacity	Insulation Resistance (MΩ)	Central Cable-Passing Device Resistance (Ω)	Service Life
Φ70×3m	26CrMo, can be quenched and tempered to S135, G105 and other oil pipe steel grades	8mm (non-grooved), 10mm (grooved)	1.5m, 2m, 3m (commonly 3m)	1.00005 - 1.0001H/m under 20 Oersted; ≤1.005 in general	≥ 1035	≥ 965	800	6500	>2	<0.5	20000m or 1 year
Φ73×3m											
Φ76×3m											
Φ89×3m											

Drill Pipe Series

HIGH-PRESSURE SEALING DRILL ROD

As a core equipment for mine drilling, the high-pressure sealed drill pipe is precision-machined from high-strength alloy steel, with a sealed structure to prevent leakage. It is resistant to high pressure and wear, suitable for deep hole drilling, ensuring stable mud circulation and improving drilling efficiency and safety.



Triangular Grooved High-Pressure Sealed Drill Pipe



Grooved High-Pressure Sealed Drill Pipe



Plain High-Pressure Sealed Drill Pipe



Triangular High-Pressure Sealed Drill Pipe

PRODUCT PARAMETERS

Specification	Material	Theoretical Torque (N.m)	Reference Drilling Depth (m)	Supporting Model	Drill Hole Diameter (mm)
Φ34mm	DZ50	2000N.m	100m	ZQJC-160~1000 ZDY-400 Hydraulic Drilling Rig	55mm
Φ42mm	DZ50	3000N.m	150m		65mm1、 75mm
Φ50mm	DZ50	5000N.m	150m		75mm
Φ63.5mm	R780	8000N.m	200m	ZDY-1900	94mm
Φ73mm	R780	10000N.m	200m	ZDY-3200	
(73 Thread)					
Φ89mm	R780	12000N.m	300m	ZDY-4000	108mm

Drill Pipe Series

DRILLING ROD

The drilling drill pipe is made of alloy steel including 42CrMo, with a tensile strength of 800-1200MPa. The surface undergoes wear-resistant treatment, and the joints are mostly connected by tapered threads or straight threads. Mainly used for geological exploration, mine mining, water well construction and other scenarios, it transmits torque and axial pressure to realize the rotational drilling of drill bits and core extraction.



Triangular Grooved Drilling Drill Pipe



Grooved Drilling Drill Pipe



Plain Drilling Drill Pipe



Triangular Drilling Drill Pipe



Ribbed Drilling Drill Pipe

PRODUCT PARAMETERS

Diameter (mm)	Wall Thickness (mm)	Steel Grade	Drill Pipe Torque (N·m)	Reference Drilling Depth (m)	Joint Hardness (Rockwell)	Implementation Standard
Φ33.5mm	5mm	DZ50	2000N·m	100m	HRC28-32	MT/T-521-2006
Φ42mm	6.2mm	DZ50	3000N·m	100m	HRC28-32	MT/T-521-2006
Φ50mm	6.5mm	DZ50	5000N·m	100m	HRC28-32	MT/T-521-2006
Φ63.5mm	7.1mm	R780	8000N·m	200m	HRC28-32	MT/T-521-2006
Φ73mm	7.8mm	R780	10000N·m	200m	HRC28-32	MT/T-521-2006
Φ89mm	9.5mm	R780	12000N·m	300m	HRC28-32	MT/T-521-2006
Φ102mm	9.5mm	R780	12000N·m	300m	HRC28-32	GB-T13344-2010
Φ114mm	9.5mm	R780	15000N·m	300m	HRC28-32	GB-T13344-2010
Φ127mm	9.5mm	R780	20000N·m	300m	HRC28-32	GB-T13344-2010

Drill Pipe Series

SPIRAL DRILL PIPE

The spiral drill pipe body is made of high-pressure seamless alloy steel pipe, and the spiral blade is made of high-wear-resistant T-shaped steel strip, which is welded by prestressed winding. The joint is made of high-quality medium-carbon alloy steel, undergoing vacuum quenching and tempering treatment. Used for mine mining, geological exploration, coal seam water exploration, gas drainage drilling and other operations.



High-Efficiency Spiral Drill Pipe



Geological Spiral Drill Pipe

PRODUCT PARAMETERS

Specification				Theoretical Torque N.m	Connection Method
Helix Diameter	Rod Body Diameter	Length	Joint Size		
Φ26	Φ16	500 ~ 3000	M16×1.5	100 ~ 150	Threaded Connection
Φ28	Φ16 ~ 18	500 ~ 3000	F12/M18×1.5	100 ~ 150	Square/Threaded
Φ30	Φ16 ~ 18	500 ~ 3000	F12/M18×1.5	100 ~ 150	Square/Threaded
Φ32	Φ18 ~ 22	500 ~ 3000	F12/M16×1.5	100 ~ 250	Square/Threaded
Φ38	Φ21 ~ 22	500 ~ 3000	F14/Tr16	150 ~ 350	Square/Threaded
Φ40	Φ21 ~ 22	500 ~ 3000	F14/Tr16	150 ~ 350	Square/Threaded
Φ42	Φ21 ~ 22	500 ~ 3000	F14/Tr16	150 ~ 350	Square/Threaded
Φ45	Φ25 ~ 27	500 ~ 3000	F18/Tr19	350 ~ 450	Square/Threaded
Φ55	Φ25 ~ 27	500 ~ 3000	F18/Tr19	350 ~ 450	Square/Threaded
Φ65	Φ25 ~ 27	500 ~ 3000	F24/Tr19	350 ~ 450	Square/Threaded

Drill Pipe Series · Drill Pipe Accessories

DRILL BIT CONNECTOR

Common models of drill bit connectors are B19 and B22, compatible with corresponding specifications of drill pipes. Made of 40Cr or 45# steel, they undergo vacuum quenching and tempering treatment and precision machining by CNC lathes. The thread specifications for connecting with drill bits include 14×1.5, and the thread for connecting with drill pipes is 6*6cm, etc. Mainly used for connecting drill pipes and drill bits to ensure the smooth progress of drilling operations.



PRODUCT PARAMETERS

odel	Length (mm)	Diameter (mm)	Thread (mm)		Surface Hardness (HRC)
B19 (Single Thread)	44±0.5	24±0.3	M16*6	M14×1.5	≥ 32
B19 (Double Thread)	48±0.5	24±0.3	M14.5×16	M14×1.5	≥ 32
B22	47±0.5	27±0.3	M18×6	M14×1.5	≥ 32

Drill Pipe Series · Drill Pipe Accessories

DRILL PIPE CONNECTOR

Common models of drill pipe connectors are B19 and B22, compatible with corresponding specifications of drill pipes. Made of 40Cr or 45# steel, they undergo vacuum quenching and tempering treatment and precision machining by CNC lathes, with a thread for connecting with drill pipes of 6*6cm, etc. Mainly used for connecting drill pipes to ensure the smooth progress of drilling operations.



PRODUCT PARAMETERS

Model	Length (mm)	Diameter (mm)	Thread (mm)	Surface Hardness (HRC)
B19 (Single Thread)	44±0.5	24±0.3	M16*6	≥ 32
B19 (Double Thread)	48±0.5	24±0.3	M14.5×16	≥ 32
B22	47±0.5	27±0.3	M18×6	≥ 32

Drill Pipe Series · Drill Pipe Accessories

COAL DRILL SHANK

The coal drill shank has a diameter of generally 12-22mm. Made of high-quality alloy steel, it undergoes vacuum heat treatment and quenching and tempering. Mainly used for drilling coal seams underground coal mines, it is used with coal electric drills and pneumatic drills to provide support for gas drainage, anchor bolt support and other operations.



Coal Drill Shank (Solid)



Coal Drill Shank (Hollow)

PRODUCT PARAMETERS

Model	Front End Diameter (mm)	Shank Diameter (mm)	Pin Diameter (mm)	Total Length (mm)	Internal Thread
M12×130	24 ⁰ _{-0.15}	19 ⁰ _{-0.35}	8 ^{+0.05} ₀	130	M12×1.75
M14×130					M14×2.0
M16×130					M14×2.0

Drill Pipe Series · Drill Pipe Accessories

WATER INJECTOR

Drill pipe water injectors are divided into low-pressure and high-pressure types according to pressure. The former has a pressure resistance of 0.6-1.2MPa, and the latter up to 60MPa. Common specifications are compatible with drill pipes of Φ26 - Φ89mm, with a length of 200-350mm. Connected to drill pipes, it is used for mine mining and coal mine drilling to inject water for slag discharge, cooling and dust reduction.



Water Injector (Quick)



Water Injector (Threaded)

PRODUCT PARAMETERS

Number of Pump Plungers	Pump Efficiency (%)	Rated Discharge Pressure (MPa)	Pump Speed (r/min)		Volumetric Efficiency (%)	
5	≥ 77	< 8	735	960	≥ 92	≥ 91
7	≥ 75	≥ 8-16	735	960	≥ 91	≥ 90

DOMESTIC OFFICES

There are 35 direct offices nationwide (Taiyuan, Yangquan, Changzhi, Jincheng of Shanxi; Xi'an of Shaanxi; Zhengzhou of Henan; Shijiazhuang, Baoding of Hebei; Shanghai; Hangzhou of Zhejiang; Nanjing, Xuzhou of Jiangsu; Foshan of Guangdong; Wuhan of Hubei; Hefei of Anhui; Baotou, Wuhai of Inner Mongolia; Ürümqi of Xinjiang; Yinchuan of Ningxia; Tianshui of Gansu; Harbin of Heilongjiang; Changchun of Jilin; Shenyang of Liaoning; Beijing; Tianjin; Jinan of Shandong; Quanzhou of Fujian; Nanchang of Jiangxi; Changsha of Hunan; Chongqing; Chengdu of Sichuan; Kunming of Yunnan; Nanning of Guangxi; Guiyang of Guizhou; Haikou of Hainan)

Office Distribution



AFTER-SALES SERVICE



We adhere to the quality policy of **Striving for first-class products and ensuring premium services**. We provide customers with convenient, reassuring and satisfactory services systematically and comprehensively throughout pre-sales, sales and after-sales stages.

Our tenet: **All we do today is to meet the needs of users.**



Pre-sales

Provide detailed technical data, professional technical consultation and customized design solutions, assist customers in optimal selection. While meeting customer needs, offer products with the best cost performance.



Sales

Each product is equipped with detailed installation, commissioning and operation manuals. We guide customers in installation, commissioning and maintenance, and provide technical training as required. Quality files are established for lifelong tracking after sales.



After-sales

Provide professional and efficient services including technical consultation, spare parts replacement and on-site problem solving. Conduct regular visits to understand usage and continuously improve products. Communicate with customers through various channels to upgrade service quality.