Pneumatic anchor rod/foldable assist anchor rod drilling rig



Applicable Scope

This series of anchor rod drilling rigs is mainly used for anchor rod support operations in tunnels with rock hardness f ≤ 8.



Product Features

1. It can drill anchor rod holes and anchor cable holes, with a wide range of applications;

2. It can mix and install resin cartridge anchor rods and cables to meet the requirements of initial anchor pre tension.

Technical Parameters

Parameter	Unit	Anchor rod drilling rig				Foldable anchor rod drilling rig	
		MQT-130/3.8	MQT-130/3.1	MQT-120/2.8	MQT-90/2.0	MQTB-65/2.1	MQTB-130/3.5
Running pressure	MPa	0.4 ~ 0.63					
Rated torque	N·m	130		120	90	65	130
Rated speed	r/min	280	230	225	220	320	260
max. Output power	kW	3.8	3.1	2.8	2.0	2.1	3.5
max. Load torque	N·m	220	200	210	170	110	170
Drilling diameter	mm	27				27 ~ 32	27
max. Height of the complete machine	mm	3500	3610	3560	3510	3175	3050
min. Height of the complete machine	mm	1430	1500	1450	1400	1235	1180
Propulsion distance (±50)	mm	2070	2110			1940	1855

KMQT-130/3.2 Pneumatic vibration anchor rod drilling rig



Applicable Scope

This series of anchor rod drilling rigs is mainly used for anchor rod support operations in tunnels with rock hardness f ≤ 10.



Product Features

1. Can drill anchor rod holes and anchor cable holes, and can mix and install resin cartridge anchor rods and anchor cables;

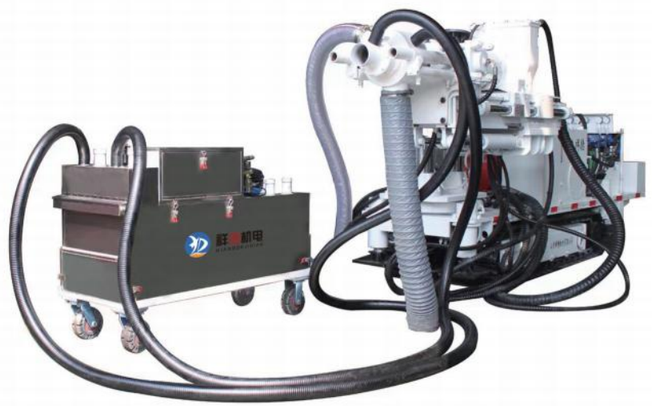
2. Implement one-time installation and tightening of anchor rods and nuts to meet the requirements of initial anchor pre tightening force;

3. The power end of the drilling rig has a vibration function, which can effectively break rocks, has a fast drilling speed, and high work efficiency.

Technical Parameters

Parameter	Unit	Value		
Running pressure	MPa	0.4	0.5	0.63
Rated torque	N·m	110	130	140
Rated speed	r/min	220	240	260
Vibration frequency	Hz	88	96	102
max. Output power	kW	2.5	3.2	3.8
max. Load torque	N·m	160	200	240
Drilling diameter	mm	27		
max. Height of the complete machine	mm	3500		
min. Height of the complete machine	mm	1460		
Weight	kg	55		

KJS-10QZ-type Pneumatic wet orifice dust reduction device



Applicable Scope

The KJS-10QZ-type pneumatic wet orifice dust reduction device for mining is an intelligent dust elimination and gas treatment integrated device designed for the production of a large amount of dust during wind driven slag discharge during underground drilling operations in coal mines.

Product Features

1. Equipped with a negative pressure generator and dust collector, using mine wind pressure to drive the formation of a negative pressure area inside the dust collector, so that the dust and gas generated during the drilling process are sucked into the dust collector, preventing the accumulation of dust and gas in the drilling space, protecting the physical and mental health of workers, and improving work efficiency;
2. When drilling causes gas to precipitate in the coal seam, the generated gas can be sucked into the gas drainage pipeline under negative pressure, so as to control the gas content in the area;
3. Equipped with onboard gas sensors and power outage devices, when a large amount of gas is generated underground in the coal mine and reaches the first safety upper limit, the gas sensor will alarm and send a signal to instantly cut off the power of the drilling rig; When the gas concentration reaches the second safety upper limit, the sensor sends out a signal again to control the electric ball valve to allow high-pressure water or compressed air to enter the safety airbag. The safety airbag bulges, holds the drill pipe tightly, and closes the borehole. At this time, the gas in the borehole can enter the dust collector through the pipeline, and finally enter the underground gas pipeline to prevent gas outburst from causing personal injury.

Technical Parameters

Parameter	Unit	Value
Rated air pressure	MPa	0.4 ~ 0.7
Gas consumption	m^3/min	0.7 ~ 1.0
Rated discharge capacity	m^3/min	18
Spray parameters	L/min	2
Atomized particles	μm	5 ~ 30
Noise during operation	dB	85
Drill pipe model	Round drill pipe/ trigone drill pipe/spiral drill pipe	
Compressed air pipe and water pipe interface	KJ16	
External dimensions (l × w × h)	mm	1570×600×1010
Weight	kg	≤50

Mining anchor cable tensioning equipment



Applicable Scope

The mining anchor cable tensioning equipment is mainly used in various construction sites such as coal mines, national defense, tunnels, and transportation to measure the anchor cable anchoring force in anchor spraying support projects. The output pressure can be adjusted according to requirements to accurately apply the required pretension force to the anchor cable by the jack.

Product Features

1. Lightweight, reliable in operation, easy to operate and maintain;

2. Adopting quick connectors for easy disassembly and assembly;

3. The tool anchor is treated with carbonitriding, and the anchor cable can be firmly and reliably grasped, with a long service life;

4. Multiple forms of power sources can be selected, such as pneumatic (MQ-series), hydraulic (MY-series), and electric (MD-series).

Technical Parameters

Parameter	Unit	Pneumatic power-type								
		MQ15-180/40	MQ15-200/60	MQ18-400/40	MQ18-400/60	MQ19-400/60	MQ22-450/45	MQ22-450/63	MQ29-450/60	MQ29-500/63
Rated pressure	MPa	40	60	40	60		45	63	60	63
Rated tensile force	kN	180	200	400			450			500
Adapted steel strands diameter	mm	15		17.8		19	21.8		28.6	
Central aperture	mm	20		21		24			30	
Working air pressure	MPa	0.4 ~ 0.63								

Parameter	Unit	Hydraulic power-type			
		MY22-450/45	MY22-450/55	MY22-450/60	MY22-500/60
Rated pressure	MPa	45	55	60	
Rated tensile force	kN	450			500
Adapted steel strands diameter	mm	21.8			
Central aperture	mm	24			

Parameter	Unit	Motor power-type				
		MD18-400/60	MD19-400/60	MD22-400/60	MD22-500/60	MD29-500/60
Rated pressure	MPa	60				
Rated tensile force	kN	400			500	
Adapted steel strands diameter	mm	17.8	19	21.8		28.6
Motor power	kW	1.5				
Rated voltage	V	660/1140				

TQ-series Mining anchor cable anchor release device



Applicable Scope

The anchor cable anchor release device is mainly used for stress release and recovery of anchor devices on the roof of coal mine tunnels.

Product Features

1. Small size, light weight, and good portability;
2. Reasonable structure and reliable performance;
3. Easy to operate and safe to use.

Technical Parameters

Parameter	Unit	Model					
		TQ19-350/55	TQ22-450/50	TQ22-450/60	TQ22-500/50	TQ22-550/60	TQ29-750/63
Rated pressure	MPa	55	50	60	50	60	63
Rated tensile force	kN	350	450		500	550	750
Adapted steel strands diameter	mm	19	21.8				28.6
Central aperture	mm	22	24				31
Working air pressure	MPa	0.4 ~ 0.63					

Mining anchor rod (cable) dynamometer



Applicable Scope

This dynamometer is mainly used to measure the stress situation of anchor rods in the surrounding rock of tunnels at different stages.

Product Features

1. Small size, lightweight, and simple structure;
2. Intuitive measurement, accurate reading, and reliable performance.

Technical Parameters

Projects	Unit	Model		
		MCZ300	MCZ500	MCZ600
Range	kN	0 ~ 400	0 ~ 1104	0 ~ 1207
Deviation in full range accuracy of tension value	/	≤5%		
Accuracy level	level	1.6		
Weight	kg	3	5.3	7
Central aperture	mm	25	24	

Pneumatic hand-held nut installer



Applicable Scope

The pneumatic hand-held nut installer can be used in conjunction with pneumatic hand-held anchor rod drilling rigs to install anchor rods, tighten and disassemble anchor rod nuts.

Product Features

1. The equipment is small in size, lightweight, powered by compressed air, with high torque and efficiency, and can achieve fast installation;
2. Equipped with built-in impact mechanism, with small reverse torque during operation, safe and reliable:
3. It is easy to operate and maintain, with simple structure. Can be equipped with the plug-in extended sleeve;
4. Especially suitable for adverse working environments such as flammable, explosive, and humid environments;
5. It can significantly improve installation efficiency, reduce labor intensity, and improve the working conditions of workers.

Technical Parameters

Parameter	Unit	Hand-held anchor rod nut installer											
		JQHST-900			JQHST-1200			JQHST-1300			JQHST-1400		
Working pressure	MPa	0.4	0.5	0.63	0.4	0.5	0.63	0.4	0.5	0.63	0.4	0.5	0.63
No-load speed	r/min	2800	3100	3300	2800	3100	3400	2800	3100	3400	2900	3200	3500
Stall torque	N·m	5	8	12	5	9	13	5	9	13	6	10	14
Gas consumption	m³/min	1.2	2.0	3.0	1.4	2.4	3.4	1.4	2.4	3.4	1.6	2.6	3.6
Impact vibration frequency	Hz	26	33	36	28	34	38	28	34	38	30	35	40
max. Installation torque	N·m	900			1200			1300			1400		
Nut installation time	s	8	7	6	7	6	5	7	6	5	7	6	5
Operating handle spacing	mm	160											
Weight	kg	29			32						33		

Parameter	Unit	Hand-held nut installer											
		JQHS-900			JQHS-1000			JQHS-1200			JQHST-1400		
working pressure	MPa	0.4	0.5	0.63	0.4	0.5	0.63	0.4	0.5	0.63	0.4	0.5	0.63
No-load speed	r/min	2500	2700	2900	2600	2800	3000	2700	3000	3200	2800	3100	3300
Stall torque	N·m	10	12	14	10	12	14	10	11	13	9	11	13
Gas consumption	m³/min	1.6	2.0	2.7	1.9	2.1	2.8	2.1	2.4	3.0	2.3	2.8	3.3
Impact vibration frequency	Hz	11	12	13	10	11	12	8	9	11	8	9	10
max. Installation torque	N·m	800	900	950	900	1000	1100	1000	1200	1300	1100	1300	1400
Nut installation time	s	7	6	5	7	6	5	7	6	5	8	7	6
Operating handle spacing	mm	120											
Weight	kg	13											
Specification of detachable nuts	/	M16 ~ M24											

Anchor rod tension meter



Applicable Scope

The anchor rod tension meter for mining is mainly used to detect and evaluate the strength, anchoring force, and anchoring quality of anchor rods in anchor spraying support engineering.

Product Features

1. The tensioning jack is equipped with a built-in tool anchor, which can achieve automatic anchoring and automatic anchor retraction, ensuring construction safety and improving work efficiency;

2. It can be used in conjunction with various top pressure devices, and the length of exposed steel strands does not exceed 20cm.

Technical Parameters

Parameter		Unit	Model	
			LDZ300	LDZ400
Complete machine	Rated tensile force	kN	300	400
	Rated pressure	MPa	60	62
	Deviation in full range accuracy of tension value	/	±5%	
	Accuracy level	level	1.6	
Tensioning jack	Weight	kg	18	15
	Central aperture	mm	28	25
	Stroke	mm	50	75
Hydraulic pump station	Hand cranking force	N	350	
	Rated working pressure of the system	MPa	63	

Geological drill pipe

Product Features

1. Adopting advanced friction welding technology for production and processing;
2. It can ensure the requirement for straightness during deep hole drilling;
3. Adopting threaded connections for easy disassembly and replacement;
4. Made of high-strength steel, it has high strength and stability.



Rod diameter mm	Length mm	Connection mode	Steel grade
Φ34,Φ36, Φ42,Φ50,Φ63.5,Φ73,Φ89,Φ95	300 ~ 3000	Screw thread	R780
Note: Special specifications can be customized			

Grooved drill pipe

Product Features

1. It has the features of high strength, wear resistance, corrosion resistance, etc.;
2. With reasonable structural design, easy to replace and maintain;
3. Adopting groove design, it has strong slag discharge ability and can improves work efficiency.



Technical Parameters

Rod diameter mm	Length mm	Connection mode	Steel grade
Φ50、Φ63.5、Φ73、Φ89、Φ95	300 ~ 3000	Screw thread	R780
Note: Special specifications can be customized			

Geological spiral drill pipe

Product Features



1. The drill pipe has high hardness and good wear resistance;
2. The slag discharge speed is fast and it is not easy to get stuck in the drill;
3. With high bending strength and firm welding;
4. With quick connection and high work efficiency;
5. Suitable for drilling and gas drainage in soft coal seams.

Technical Parameters

Spiral diameter mm	Rod diameter mm	Length mm	Connection method	Steel grade
Φ38,Φ42,Φ69,Φ76	Φ22,Φ25,Φ34,Φ42	500 ~ 2600	Thread/plug	R780
Φ89,Φ110	Φ50,Φ73	500 ~ 2600	Plug-in	R780
Φ98	Φ63.5	500 ~ 2600	Dry/wet plug-in	R780
Φ280,Φ426	Φ159	500 ~ 1500	Thread/plug	R780
Φ300	Φ73,Φ89	500 ~ 1500	Thread/plug	R780
Note: Special specifications can be customized				

Cable drilling pipe

Product Features



1. It can withstand large bending and tensile forces to ensure the smooth implementation of directional drilling;
2. The drill pipe is a signal transmission device used for directional drilling, providing a guarantee for stable signal transmission between the bottom probe tube and the orifice computer;
3. Through quenching and tempering processing, it has good mechanical properties.

Technical Parameters

Rod diameter mm	Length mm	Connection method	Steel grade
Φ70,Φ73,Φ89	1000 ~ 3000	Thread	S135
Note: Special specifications can be customized			

High pressure sealing groove drilling rod

Product Features



1. Adopting a high-pressure sealing structure with strong sealing performance, effectively reducing pressure loss;
2. Easy to assemble and disassemble, with simple operation;
3. Adopting groove design, it has strong slag discharge ability and improves work efficiency;
4. It is able to adapt to various types of rocks and geological conditions.

Technical Parameters

Rod diameter mm	Length mm	Connection method	Steel grade	Voltage withstand value	Pole style
Φ50 ~ Φ89	500 ~ 1500	Thread	R780	30MPa	Integral groove type/triangular integrated type/triangular spiral type (milling)
Φ73	500 ~ 1500	Thread	R780	100MPa(ultra-high pressure)	
Note: Special specifications can be customized					

Non-backflow drill pipe

Product Features



1. This drill pipe has good anti backflow effect and high work efficiency;
2. It has the features of high strength, wear resistance, corrosion resistance, etc.;
3. The external structure of this drill pipe is simple, lightweight, and easy to operate.

Technical Parameters

Rod diameter mm	Length mm	Connection method	Steel grade
Φ42 ~ Φ89	300 ~ 1000	Thread	R780
Note: Special specifications can be customized			

Sintered body drill bit



Product Features

1. With good fracture toughness;
2. Suitable for different types of rocks and strata, with strong adaptability;
3. With a longer service life, it can effectively reduce the frequency and cost of replacing drill bits;
4. The material has high hardness, good wear resistance, and can withstand high loads and high-speed rotation working conditions.

Technical Parameters

Bit type	Drilling diameter mm	Shape	Tail connection method	Material
FTP50,55,60,65, 75,85,94,96,98, 105,113,120,133, 146,153	Φ50,Φ55,Φ60,Φ65, Φ75,Φ85,Φ94,Φ96, Φ98,Φ105,Φ113, Φ120,Φ133,Φ146,Φ153	Triple wing concave Triple wing arc angle Four wing flat roof Four wing arc angle Four wing concave Multi wing scraper	Screw thread	Tungsten-cobalt alloy
Note: Special specifications can be customized				

Diamond composite sheet scraper drill bit



Product Features

1. The blade is made of diamond composite material, with high hardness and long service life;
2. The diamond drill bit has a large amount of diamond exposure and high drilling efficiency;
3. It is with the wide applicability, low drilling cost, and superior cost-effectiveness.

Technical Parameters

Bit type	Drilling diameter mm	Connection method	Material
FGZ75,85,94,115, 120,127,153,165,195,200	Φ75,Φ85,Φ94,Φ115,Φ120, Φ127,Φ153,Φ165,Φ195,Φ200	Thread/Insert	42CrMo
Note: Special specifications can be customized			

Diamond composite sheet reaming drill bit



Product Features

1. One time drilling can complete a large number of drilling tasks in a short period of time, greatly improving work efficiency;
2. Workers only need to perform one drilling operation, which is simple and convenient;
3. One time drilling can achieve accurate control of pores in one operation, reducing the risk of operation and ensuring personal safety.

Technical Parameters

Bit type	Drilling diameter mm	Connection method	Material
FGK28、55、65、75、 94、98、113、133	Φ75、Φ108、Φ113、Φ133、 Φ153、Φ240、Φ280、Φ300/350/450	Thread/Insert	42CrMo
Note: Special specifications can be customized			

Other drill bits



Technical Parameters

Bit type	Drilling diameter mm	Shape	Connection method	Material
FGN55,65,75,94, 113,133,146,153,165	Φ55,Φ75,Φ94,Φ113,Φ133, Φ146,Φ153,Φ165	Three-wing concave Arc angle of three wings Four-wing concave Arc angle of four wings	Thread	42CrMo
ZTY28-50	Φ28 ~ Φ50	Double wings	Thread	
ZTM28-94	Φ28 ~ Φ94	Double/multi-wing	Thread/plug	
Note: Special specifications can be customized				