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TIANFENG MINING MACHINERY CO.,LTD

天峰矿山机械有限公司



天峰矿山机械有限公司

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Together into the

TIANFENG MINE MACHINERY

一起走进天峰矿山机械... ..



ABOUT TIANFENG MINE MACHINERY

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关于天峰矿山机械

Tianfeng Mining: A Legacy of Excellence

Tianfeng Mining Tools has consistently upheld a commitment to producing and selling high-quality drilling tools, aiming to deliver efficient, environmentally friendly, and cost-effective solutions to our customers. We strive to enhance the drilling experience, ensuring users reap both the enjoyment and benefits of our advanced tools.

Situated in Taizhou, Central and Eastern Zhejiang Province, Tianfeng Mine specializes in the production and research of drill bits for mining, tunneling, and other engineering applications. Over the past 30 years, our enterprise has grown significantly in scale, supported by strong technical expertise and state-of-the-art production equipment. We focus on manufacturing an array of rock drilling and mining tools, including carbide bits, thread drills, and hammers, tailored to various rock characteristics to ensure optimal performance.

Our company is dedicated to the principles of "quality first, continuous optimization, and user-centricity." We are committed to providing reliable quality and excellent service, earning the trust and praise of our domestic and international users.

We sincerely invite you to explore customization options with us. Your satisfaction is our responsibility. Tianfeng Mining Machinery Co., Ltd. looks forward to cooperating with you for a mutually beneficial partnership and a brighter future.

天峰矿山机械有限公司一贯致力于生产和销售高质量的钻具，旨在为客户提供高效、环保、经济的解决方案。我们努力提升凿岩体验，确保用户享受我们先进工具的效率和好处。天峰矿山机械有限公司位于 浙江省的台州市，专业生产和研究用于采矿、隧道和其他工程应用的钻头。在过去的30年里，我们的企业在强大的技术专长和最先进的生产设备的支持下，规模显著增长，我们专注于制造一系列岩石钻孔凿岩工具，包括硬质合金钻头，螺纹台车钻头和风镐，可根据岩石特性进行定制，以确保最佳性能。

公司秉承“质量第一、持续优化、用户至上”的原则，致力于提供可靠的质量和卓越的服务，赢得国内外用户的信赖和赞誉。我们真诚地邀请您与我们一起探索。您的满意是我们的责任。天峰矿山机械有限公司期待 与您携手合作，建立互利共赢的合作伙伴关系，共创美好未来。

WENLING TIANFENG MINING MACHINERY CO., LTD
温岭市天峰矿山机械有限公司



PRODUCTION PROCESS FLOW CHART 生产流程



Process Step One.

流程步骤1

Shell forging:
Adopt high quality special alloy steel, ultra high temperature forming forging process.

壳体锻打：
采用优质特殊合金钢材，超高温成型锻打工艺。



Process Step Two.

流程步骤2

Shell machining:
The precision lathe machine is used to machine the drill shell to ensure the accuracy and stability of the shell processing.

壳体机加工：
利用精密车床机器将钻头壳体进行机加工，保证壳体加工的准确度和稳定性。



Process Step Three.

流程步骤3

Shell heat treatment:
Advanced heat treatment equipment is used to provide all aspects of the performance of the bit.

壳体热处理：
采用先进热处理设备，提高钎头的全方面性能。



Process Step Four.

流程步骤4

Shell and alloy forming process:
Equipped with a high quality wear resistant alloy and drill casing. Ensure that the tooth hole and alloy teeth are closely connected to prevent the possibility of alloy tooth loss.

壳体与合金成型工艺：
采用优质的耐磨性合金与钻头壳体进行配备。保证齿孔与合金齿的紧密相连，杜绝合金掉齿的可能。

How To Choose A Style 如何选择款式

The selection of drill bit is a very important link, which directly affects the efficiency and cost of drilling. When choosing a drill bit, you need to consider the following aspects:

凿岩钻头的选型是一个非常重要的环节，它直接影响到凿岩效率和成本。在选择凿岩钻头时，需要考虑以下几个方面：

Rock type 岩石类型

Different types of rock have different hardness, density and difficulty of breaking, so you need to choose the right drill bit according to the rock type.

不同种类的岩石具有不同的硬度、密度和破碎难度，因此需要根据岩石类型选择适合的凿岩钻头。

Drilling depth 凿岩深度

Different depth drilling projects need to use different kinds of drilling bits, in general, the deeper the drilling depth, the larger the diameter of the drill bit that needs to be used.

不同深度的凿岩工程需要使用不同种类的凿岩钻头，一般来说，凿岩深度越深，需要使用的钻头直径越大。

Drilling efficiency 凿岩效率

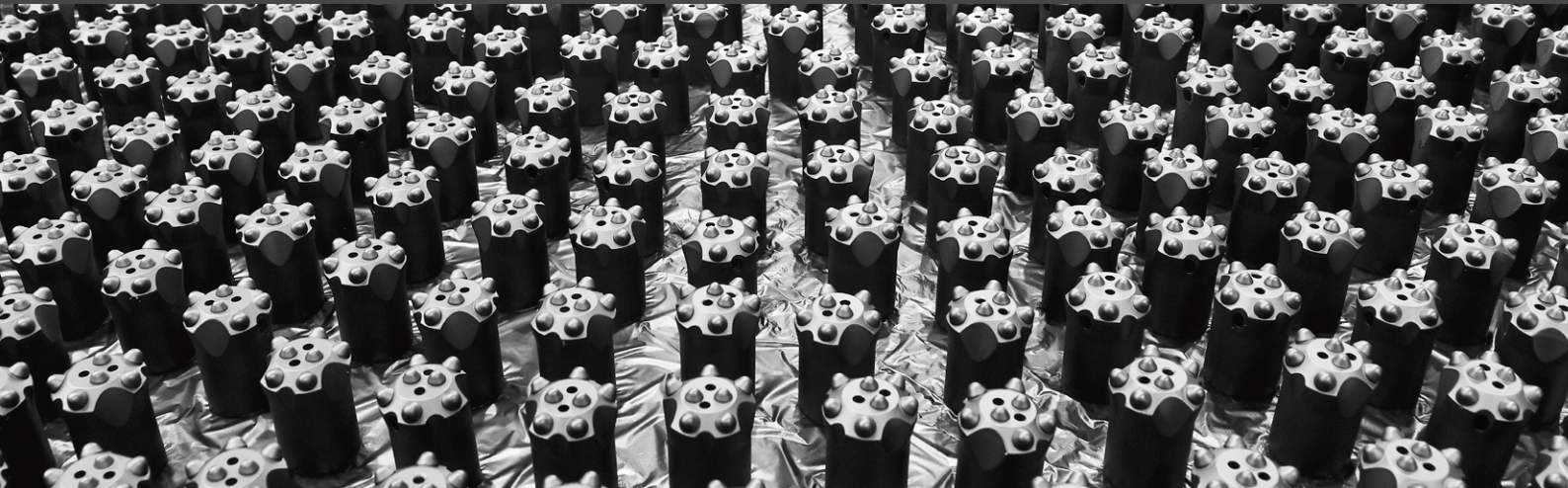
Drilling efficiency is one of the important indexes for selecting drilling bits, which needs to consider the service life of the bit, the penetration speed and the rock breaking effect.

凿岩效率是选择凿岩钻头的重要指标之一，需要考虑钻头的使用寿命、进尺速度和岩石破碎效果等因素。

Drilling depth 成本

The price of drill bit is one of the important factors to be considered when choosing a drill bit, and it is necessary to choose the right drill bit according to the actual situation.

凿岩钻头的价格是选择凿岩钻头时需要考虑的重要因素之一，需要根据实际情况选择合适的凿岩钻头。



How To Select A Profile 如何选择齿型



Parabolic button 抛物线齿型

Mainly used for soft and hard rock, this tooth type is comprehensive and cost-effective. 主要用于软硬岩，此款齿型的综合性强，性价比高。



Ballistic button 锥齿型

Cone teeth are used in soft rock formations to get into the hole quickly, but failure forms may occur when encountering extremely hard rock formations. 在软性岩层中使用锥型齿，进洞快，但遇到极硬的岩层是可能会出现失效形式。



Hemispherical button 半球齿型

Mainly used for hard rock, this tooth type cavity speed is slightly slower than the other two, but the wear resistance is strong. 主要用于硬岩，此款齿型进洞速度略慢于其他两款，但耐磨性强。

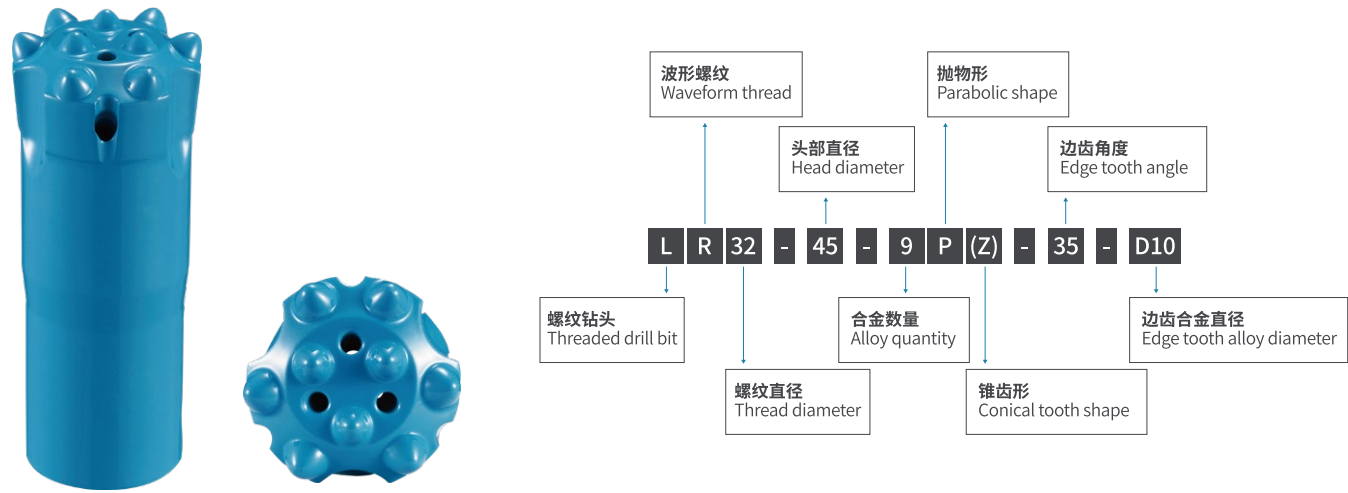


THREADED DRILL BIT

螺纹钻头

Rope Standard Thread Button Bits

标准波形螺纹钻头

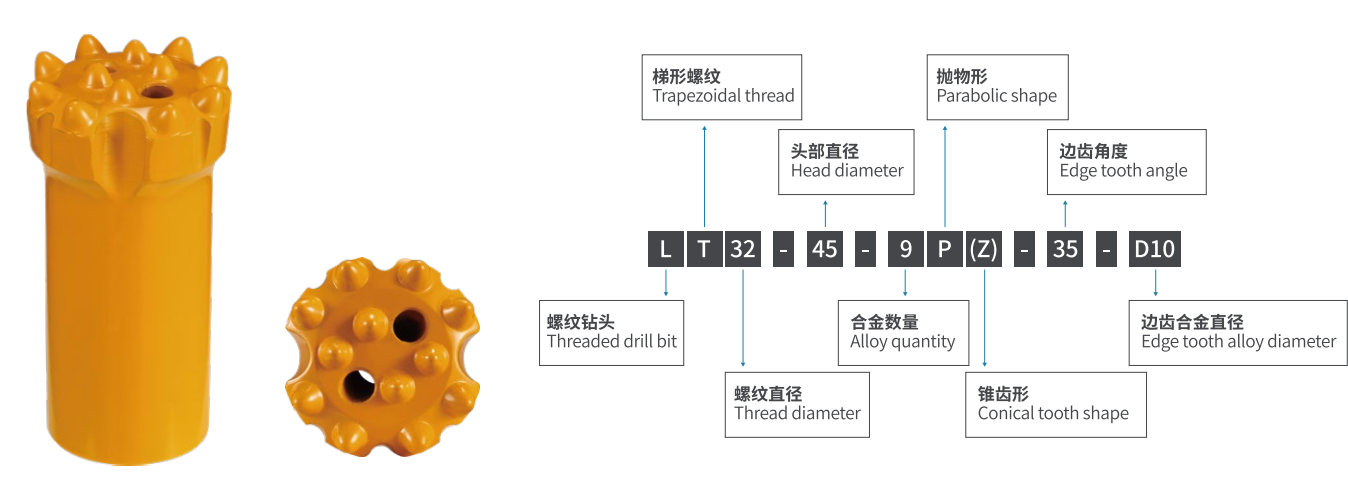


Product technical parameters 产品技术参数

			合金 Tip size.(mm)				齿形 Tooth type	
产品编号 Number	产品型号 Model	钻头直径 Bit Dia.(mm)	边齿 Gauge	正面齿 Front	螺纹 Thread	边齿角度 Angle	抛物形 Parabolic	锥线形 Ballistic
L010	LR22-33-7P(Z)-35-D7	33	5×7	2×7	R22	35°	P	Z
L011	LR25-35-7P(Z)-35-D8	35	5×8	2×7	R25	35°	P	Z
L012	LR25-38-7P(Z)-35-D8	38	5×8	2×7	R25	35°	P	Z
L013	LR25-41-7P(Z)-35-D9	41	5×9	2×8	R25	35°	P	Z
L014	LR28-41-7P(Z)-35-D9	41	5×9	2×8	R28	35°	P	Z
L015	LR32-41-8P(Z)-35-D9	41	5×9	2×9	R32	35°	P	Z
L016	LR32-43-8P(Z)-30-D9	43	6×9	3×8	R32	35°	P	Z
L017	LR28-45-8P(Z)-35-D10	45	6×10	3×8	R28	35°	P	Z
L018	LR32-45-9P(Z)-35-D9	45	6×9	3×8	R32	35°	P	Z
L019	LR32-45-9P(Z)-30-D10	45	6×10	3×8	R32	35°	P	Z
L020	LR32-45-9P(Z)-35-D10	45	6×10	3×9	R32	35°	P	Z
L021	LR32-48-9P(Z)-35-D10	48	6×10	3×9	R32	35°	P	Z
L022	LR32-51-9P(Z)-35-D10	51	6×10	3×9	R32	35°	P	Z
L023	LR32-57-9P(Z)-35-D11	57	6×11	3×10	R32	35°	P	Z
L024	LR32-64-9P(Z)-35-D12	64	6×12	3×11	R32	35°	P	Z
L025	LR32-64-12P(Z)-35-D10	64	8×10	4×10	R32	35°	P	Z
L026	LR38-64-9P(Z)-35-D12	64	6×12	3×11	R38	35°	P	Z
L027	LR32-76-12P(Z)-35-D12	76	6×12	6×12	R32	35°	P	Z
L028	LR32-76-12P(Z)-35-D12	76	8×12	4×12	R32	35°	P	Z
L029	LR38-76-12P(Z)-35-D12	76	8×12	4×12	R38	35°	P	Z
L030	LR32-89-13P(Z)-35-D13	89	8×13	5×12	R32	35°	P	Z
L031	LR38-89-13P(Z)-35-D13	89	8×13	5×12	R38	35°	P	Z
L032	LR32-102-16P(Z)-35-D12	102	14×12	1×11	R32	35°	P	Z

Trapezoidal Standard Thread Button Bits

标准梯形螺纹钻头

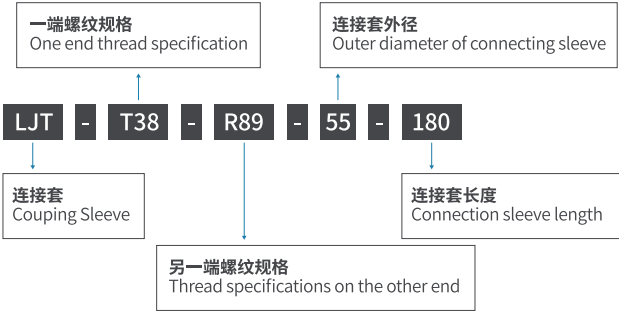


Product technical parameters 产品技术参数

			合金 Tip size.(mm)				齿形 Tooth type	
产品编号 Number	产品型号 Model	钻头直径 Bit Dia.(mm)	边齿 Gauge	正面齿 Front	螺纹 Thread	边齿角度 Angle	抛物形 Parabolic	锥线形 Ballistic
L033	LT38-64-9P(Z)-35-D12	64	6×12	3×11	T38	35°	P	Z
L034	LT38-64-10P(Z)-35-D12	64	6×12	3×11	T38	35°	P	Z
L035	LT38-64-12P(Z)-35-D10	64	8×10	4×10	T38	35°	P	Z
L036	LT38-76-12P(Z)-35-D12	76	8×12	4×12	T38	35°	P	Z
L037	LT38-76-10P(Z)-35-D13	76	6×13	4×12	T38	35°	P	Z
L038	LT45-76-12P(Z)-35-D12	76	8×12	4×12	T45	35°	P	Z
L039	LT45-76-13P(Z)-35-D12	76	8×12	5×11	T45	35°	P	Z
L040	LT38-89-14P(Z)-35-D12	89	8×12	4×12 2×10	T38	35°	P	Z
L041	LT38-89-139P(Z)-35-D13	89	8×13	5×12	T38	35°	P	Z
L042	LT45-89-14P(Z)-35-D13	89	8×13	4×12 2×10	T45	35°	P	Z
L043	LT45-89-13P(Z)-35-D13	89	8×13	5×12	T45	35°	P	Z
L044	LT51-89-14P(Z)-35-D13	89	8×13	4×12 2×10	T51	35°	P	Z
L045	LT51-89-13P(Z)-35-D13	89	8×13	5×12	T51	35°	P	Z
L046	LGT60-92-14P(Z)-35-D14	92	8×14	6×12	GT60/TW60	35°	P	Z
L047	LT45-102-14P(Z)-35-D14	102	8×14	4×12 2×10	T45	35°	P	Z
L048	LT45-102-18P(Z)-35-D13	102	9×13	9×11	T45	35°	P	Z
L049	LT51-102-14P(Z)-35-D14	102	8×14	4×12 2×11	T51	35°	P	Z
L050	LT51-102-18P(Z)-35-D13	102	9×13	9×11	T51	35°	P	Z
L051	LGT60-102-18P(Z)-35-D14	102	9×14	9×12	GT60/TW60	35°	P	Z
L052	LT45-115-15P(Z)-35-D14	115	8×14	4×14 3×12	T45	35°	P	Z
L053	LT45-115-19P(Z)-35-D14	115	9×14	10×12	T45	35°	P	Z
L054	LT51-115-16P(Z)-35-D14	115	8×14	4×14 4×12	T51	35°	P	Z
L055	LT45-127-19P(Z)-35-D15	127	9×15	10×13	T45	35°	P	Z
L056	LGT60-165-21P(Z)-35-D16	165	9×16	12×16	GT60/TW60	35°	P	Z

THREAD
COUPING SLEEVE

螺纹连接套

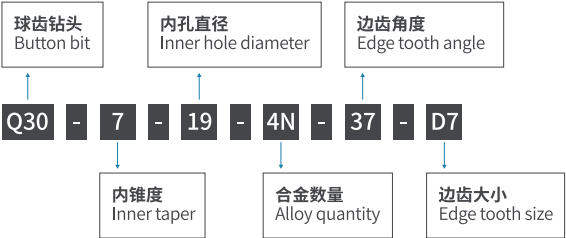


Product technical parameters 产品技术参数

		外径 Outside Diameter		长度 Length	
产品编号 Number	产品型号 Model	mm	in	mm	in
LJT010	LJT-R32-R25-45-170	45	1 3⁄4"	170	6 5⁄16"
LJT011	LJT-R32-R28-45-170	45	1 3⁄4"	170	6 5⁄16"
LJT012	LJT-R38-R65-55-180	55	2 5⁄32"	180	7 5⁄16"
LJT013	LJT-T38-R32-55-180	55	2 5⁄32"	180	7 1⁄8"
LJT014	LJT-T38-R38-55-190	55	2 5⁄32"	190	7 3⁄16"
LJT015	LJT-R38-55-170	55	2 3⁄4"	170	6 5⁄16"
LJT016	LJT-T45-63-210	63	2 15⁄32"	210	8 1⁄16"
LJT017	LJT-T45-66-210	66	2 19⁄32"	210	8 3⁄16"
LJT018	LJT-T51-72-235	72	2 7⁄8"	235	9 1⁄4"
LJT019	LJT-T51-76-235	76	3"	235	9 1⁄4"

The taper Button Bit

锥度连接柱齿钻头

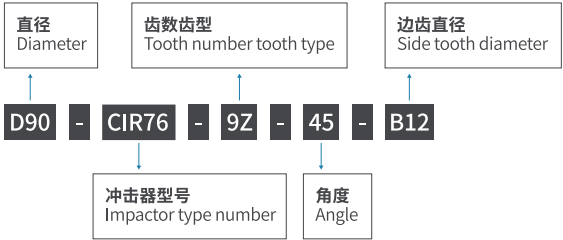


Product technical parameters 产品技术参数

			合金 Tip size.(mm)			
产品编号 Number	产品型号 Model	钻头直径 Bit Dia.(mm)	边齿 Gauge	正面齿 Front	边齿角度 Gauge Angle	内锥度 Angle
Q100	Q30-7-19-4N-37-D7	30	3×7	1×7	37°	7/11/12
Q102	Q30-7-19-5N-37-D6	30	3×6	2×6	37°	7/11/12
Q103	Q30-7-22-7N-37-D6	30	5×6	2×6	37°	7/11/12
Q104	Q32-7-23-4N-37-D7	32	3×7	1×7	37°	7/11/12
Q105	Q32-7-23-5N-37-D6	32	3×6	2×6	37°	7/11/12
Q106	Q32-7-23-6N-37-D6	32	4×6	2×7	37°	7/11/12
Q107	Q32-7-23-6N-37-D7	32	3×7	2×7	37°	7/11/12
Q108	Q32-7-23-7N-37-D7	32	5×7	2×7	37°	7/11/12
Q109	Q34-7-23-4N-37-D7	34	3×7	1×7	37°	7/11/12
Q110	Q34-7-23-5N-37-D8	34	4×8	1×7	37°	7/11/12
Q111	Q34-7-23-6N-37-D7	34	4×7	2×7	37°	7/11/12
Q112	Q34-7-23-7N-37-D8	34	5×8	2×7	37°	7/11/12
Q113	Q34-7-23-7N-37-D7	34	5×7	2×7	37°	7/11/12
Q114	Q36-7-23-4N-37-D8	36	3×8	1×8	37°	7/11/12
Q115	Q36-7-23-5N-37-D8	36	4×8	1×8	37°	7/11/12
Q116	Q36-7-23-6N-37-D7	36	4×7	2×7	37°	7/11/12
Q117	Q36-7-23-7N-37-D7	36	5×7	2×7	37°	7/11/12
Q118	Q36-7-23-8N-37-D7	36	6×7	2×7	37°	7/11/12
Q119	Q38-7-23-4N-37-D9	38	3×9	1×8	37°	7/11/12
Q120	Q38-7-23-5N-37-D9	38	3×9	2×8	37°	7/11/12
Q121	Q38-7-23-7N-37-D7	38	5×7	2×7	37°	7/11/12
Q122	Q38-7-23-6N-37-D8	38	4×8	2×7	37°	7/11/12
Q124	Q38-7-23-7N-37-D8	38	5×8	2×7	37°	7/11/12
Q125	Q40-7-23-4N-37-D9	40	3×9	1×9	37°	7/11/12
Q126	Q40-7-23-5N-37-D9	40	4×9	1×9	37°	7/11/12
Q127	Q40-7-23-6N-37-D8	40	4×8	2×7	37°	7/11/12
Q128	Q40-7-23-7N-37-D7	40	5×7	2×7	37°	7/11/12
Q129	Q40-7-23-7N-37-D8	40	5×8	2×7	37°	7/11/12
Q130	Q42-7-23-4N-37-D9	42	3×9	1×9	37°	7/11/12
Q131	Q42-7-23-6N-37-D8	42	4×8	2×8	37°	7/11/12
Q132	Q42-7-23-5N-37-D9	42	4×9	1×9	37°	7/11/12
Q133	Q42-7-23-7N-37-D8	42	5×8	2×8	37°	7/11/12
Q134	Q42-7-23-8N-37-D8	42	6×8	2×8	37°	7/11/12
Q135	Q50-7-23-5N-37-D9	50	3×9	2×9	37°	7/11/12
Q136	Q50-7-23-7N-37-D9	50	4×9	3×9	37°	7/11/12
Q137	Q60-7-23-5N-37-D9	60	4×9	1×9	37°	7/11/12
Q138	Q24-7-17-4N-37-D6	24	3×6	1×6	37°	7/11/12
Q139	Q24-7-17-5N-37-D6	24	3×6	2×5	37°	7/11/12
Q140	Q60-7-23-7N-37-D9	60	4×9	3×9	37°	7/11/12
Q141	Q70-7-23-10N-37-D9	70	6×9	4×9	37°	7/11/12
Q142	Q80-7-23-11N-37-D6	80	8×6	3×5	37°	7/11/12
Q143	Q90-7-23-12N-37-D6	90	6×6	6×6	37°	7/11/12

DTH DRILL BIT

潜孔钻头



Product technical parameters 产品技术参数

产品编号 Number	产品型号 Model	钻头直径 Bit Dia.(mm)	中齿 Front	边齿 Gauge	适配冲击器 Connection	齿型 Teeth model
A001	D76-CIR76-9Z-45-B12	76	3x12	6x12	CIR76	Z
A002	D80-CIR76-9Z-45-B12	80	3x12	6x12	CIR76	Z
A003	D90-CIR90-10Z-45-B14	90	2x13/2x14	6x14	CIR90	Z
A005	D100-CIR90-11Z-45-B14	100	3x12/2x14	6x14	CIR90	Z
A006	D110-CIR90-13Z-45-B14	110	4x12/3x14	6x14	CIR90	Z
A007	D120-CIR90-14Z-45-B14	120	5x12/3x14	6x14	CIR90	Z
A009	D130-CIR90-15Z-45-B14	130	5x12/4x14	7x14	CIR90	Z
A010	D120-CIR110-14Z-45-B14	120	5x12/3x14	6x14	CIR110	Z
A011	D130-CIR110-15Z-45-B14	130	5x12/3x14	7x14	CIR110	Z
A012	D140-CIR110-15Z-45-B14	140	5x12/3x14	7x14	CIR110	Z
A013	D150-CIR110-19Z-45-B14	150	4x12/6x14	9x14	CIR110	Z
A014	D160-CIR110-19Z-45-B16	160	4x14/6x14	9x16	CIR110	Z
A015	D150-CIR150-19Z-45-B16	150	4x14/6x14	9x16	CIR150	Z
A016	D165-CIR150-20Z-45-B16	165	5x14/6x14	9x16	CIR150	Z
A017	D175-CIR150-20Z-45-B16	175	6x14/5x14	9x16	CIR150	Z
A018	D185-CIR150-22Z-45-B16	185	7x14/6x14	9x16	CIR150	Z

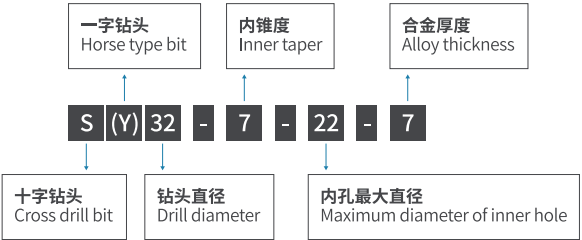


THE TAPER
CROSS TYPE BIT

锥度连接片钻头

The Taper Cross type Bit

锥度连接片钻头



Product technical parameters 产品技术参数

产品编号 Number	产品型号 Model	钻头直径 Bit Dia.(mm)	内锥度 Gauge	内孔直径 Dia	合金厚度 Angle
S010	S32-7-22-7	32	7	22	7
S011	S34-7-22-7	34	7	22	7
S012	S36-7-22-8	36	7	22	8
S013	S38-7-22-8	38	7	22	8
S014	S40-7-22-8	40	7	22	8
S015	S42-7-22-8	42	7	22	8
S016	S46-7-22-8	46	7	22	8
S017	S50-7-22-8	50	7	22	8
S018	S46-7-22-8	46	7	22	8
S019	S50-7-22-9	50	7	22	9
S020	S60-7-22-9	60	7	22	9



Product technical parameters 产品技术参数

产品型号 Model	机身总长 length	机重 weight	气缸直径 Cylinder diameter	钎尾规格 specifications	锤体重量 Hammer weight	冲击能量 energy	使用气压 pressure	冲击频率 frequency	耗气量 Consumption	适用胶管内径 internal diameter
G10	610	10	38	24×70	1	≥40	0.63	≥16	≤20	16
G10A	640	10	38	24×70	1	≥45	0.63	≥16	≤20	16
G12	610	10	38	24×70	1	≥45	0.63	≥16	≤26	19
G15	640	13	38	24×70	1	≥50	0.63	≥16	≤28	19
G16	610	14	42	24×70	1	≥58	0.63	≥16	≤28	19
G165	640	14	38	24×70	1	≥58	0.63	≥16	≤28	19
G18	650	17	42	24×70	1	≥65	0.63	≥16	≤30	19
G20	660	20	42	24×70	1	≥65	0.63	≥16	≤30	19
G20A	620	20	42	30×87	1	≥66	0.63	≥16	≤30	19
G30	620	23	48	30×87	1	≥75	0.63	≥16	≤32	16
G7	472	10	35	26×80	1	≥30	0.63	≥16	≤18	16

Rock Drill

凿岩机



Product technical parameters 产品技术参数

产品型号 Model	重量 weight	气缸直径 Cylinder diameter	工作压力 Working pressure	耗气量 gas consumption	水管内径 Water pipe Inside diameter	FT 140B气腿 FT 140B air legs			
YT24	24kg	70mm	0.4-0.63Mpa	≤66.7	13mm	气腿长度 Air leg length	推进长度 Propulsive length	气缸直径 Cylinder diameter	重量 weight
	长度 length	活塞结构长度 Piston length	冲击频率 frequency	气管内径 Trachea Inside diameter	钻头尺寸 Bit size	1687mm	1250mm	60mm	≈15.6kg
	678mm	70mm	≥31	25mm	φ34~φ42mm	FT 160BC气腿(长气腿) FT 160BC Air Leg (Long air leg)			
	柄部尺寸(六角长边对边尺寸) Shank size (hexagonal long side to side size)			FY200B/200C注油器 FY200B/200C oiler		气腿长度 Air leg length	推进长度 Propulsive length	气缸内径 Cylinder bore	重量 weight
	22×108mm±1			容量 capacity	200ml	1800mm	1365mm	65mm	≈16.9kg

产品型号 Model	重量 weight	外形尺寸 size	气缸直径 Cylinder diameter	活塞结构长度 Piston length	冲击能量 Impact energy	冲击频率 frequency	耗气量 gas consumption	气管内径 Trachea Inside diameter	水管内径 Water pipe Inside diameter
YT27	27kg	668×248×202mm	80mm	60mm	≥75.5J	≥36.7Hz	≤83.3L/S	25mm	13mm
								FY250注油器 FY250 oiler	
	工作压力 Working pressure	水压 Water pressure	适用凿孔直径 Suitable for hole diameter		适用最大钻孔深度 Suitable for maximum drilling depth		柄部规格 Shank specification	重量 weight	容量 capacity
	0.63MPa	0.3MPa	34mm~45mm		5m		22×108mm	1.2kg	0.2L

产品型号 Model	重量 weight	全长 length	气缸直径 Cylinder diameter	活塞行程 Piston stroke	空载转速 No-load speed	冲击能量 Impact energy	压力 pressure	冲击频率 frequency	空气消耗 Air consumption
YT28	26kg	661mm	80mm	60mm	≥300mp	70J	0.50,0.63Mpa	≥34,≥36Hz	≤55,≤81L/S
	钻速 Drilling speed	气管规格 Tracheal specifications		水管规格 Water pipe specifications		钻孔孔径 Borehole diameter	钻孔深度 Drilling depth	钎头(六角 XL) Drill head (hexagonal XL)	
	≥420mm/min	25mm		13mm		34~42mm	5mm	22×108mm	

产品型号 Model	重量 weight	长度 length	钎尾规格 Specification of brazing tail	钻孔直径 Drilling diameter	活塞直径 Piston diameter	活塞行程 Piston stroke
YT29A	27kg	659mm	H22×108±1mm	34-45mm	82mm	60mm
	气压0.5MPa条件下 Under the condition of air pressure of 0.5MPa					
	耗气量 Gas consumption		冲击频率 Impact frequency	转数 Revolution	气管内径 Tracheal inner diameter	产品代码 Product code
	≤65L/S		≥37Hz	300r/min	25mm	3312 3003 12