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众源机械是一家致力于"众源"、"STONEWIN"等品牌矿山开采设备及其工具研发、制造及销售的一体化民营企业,是国家高新技术企业。公司在福建宁德设有两大生产基地(众源生产基地、拓源生产基地),总占地面积约60亩,拥有绳锯机、金刚石串珠绳锯研发部门,拥有独立的技术研发、销售与服务团队,并设有福建宁德澳凯通进出口有限公司专注国际贸易,为全球客户提供系统化的产品与服务。

Zhongyuan Machinery is an integrative enterprise, which is specialized in researching, developing, manufacturing and selling of "ZHONGYUAN" and "STONEWIN" brands quarrying equipments and tools, is state High-tech Enterprises. The company has R&D centers for wire saw machine and diamond wire saw. It has an Fujian Ningde AQT Imp&Exp Co., Ltd., focusing on international trade, it owns an outstanding and professional teamfortechnical R&D, marketing and services.









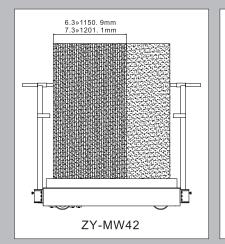


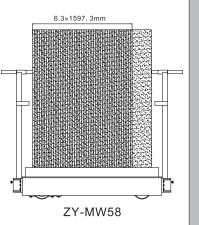
## 多组绳锯机 MULTI-WIRE SAW MACHINE

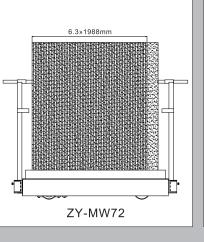


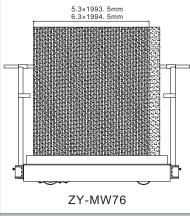


#### 切割厚度 CUTTING THICKNESS

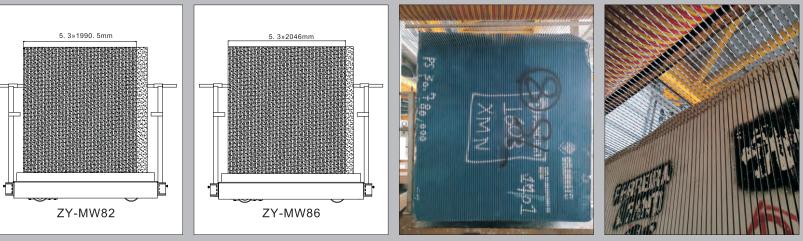










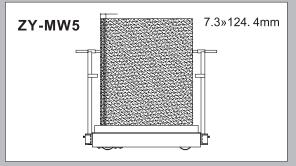


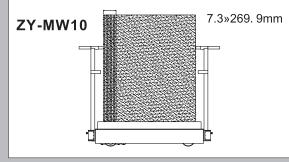
技术参数/TECHNICAL DATA	ZY-MW42	ZY-MW58	ZY-MW72	ZY-MW76	ZY-MW82	ZY-MW86
最大切割长度 MAX.CUTTING LENGTH	3500mm					
最大切割高度 MAX.CUTTING HEIGHT	2200mm					
板材标准厚度 SLABS STANDARD THICKNESS	20/30mm	20/30mm	20/30mm	19/20mm	18mm	18mm
最大切板数量 MAX.CUTTING SLAB QUANTITY	41	57	71	75	81	85
金刚石绳串珠直径 DIAMOND BEADS DIAMETER	6.3/7.3mm	6.3/7.3mm	6.3/7.3mm	5.3/6.3mm	5.3/6.3mm	5.3mm
金刚石绳长度 DIAMOND WIRE LENGTH	24000mm					
线速度 WIRES SPEED			0-35	5m/s		
主电机功率 MAIN MOTOR POWER	160kw	180kw	200kw	200kw	250kw	250kw
冷却水量 COOLING WATER	1000L/min	1800L/min	2300L/min	2400L/min	2400L/min	2400L/min
机器长度(L) MACHINE LENGTH (L)	11800mm					
机器高度 ( H ) MACHINE HEIGHT(H)	5900mm					
机器重量 NET WEIGHT	45T	50T	65T	65T	67T	69T

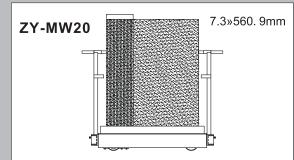
## 多组绳锯机 MULTI-WIRE SAW MACHINE

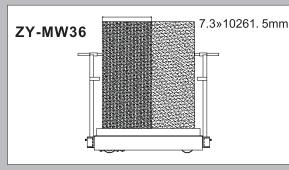




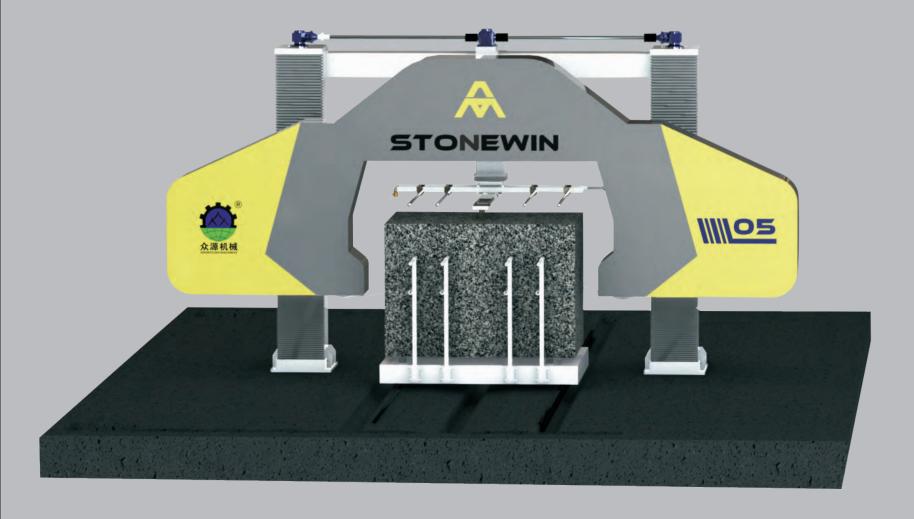








	技术参数/TECHNICAL DATA	ZY-MW5	ZY-MW10	ZY-MW20	ZY-MW36		
	最大切割长度 MAX.CUTTING LENGTH	3500mm					
	最大切割高度 MAX.CUTTING HEIGHT	2000mm					
	板材标准厚度 SLABS STANDARD THICKNESS		20/3	0mm			
	最大切板数量 MAX.CUTTING SLAB QUANTITY	4	9	19	35		
	金刚石绳串珠直径 DIAMOND BEADS DIAMETER	7.3mm					
	金刚石绳长度 DIAMOND WIRE LENGTH	21000mm					
	线速度 WIRES SPEED		0-35	ōm/s			
	主电机功率 MAIN MOTOR POWER	37kw	55kw	95kw	132kw		
	冷却水量 COOLING WATER	150L/min	250L/min	500L/min	800L/min		
n	机器长度(L) MACHINE LENGTH (L)	10500mm					
	机器高度(H) MACHINE HEIGHT(H)	) 5900mm					
	机器重量 NET WEIGHT	<b>1</b> 5T	20Т	30T	35T		

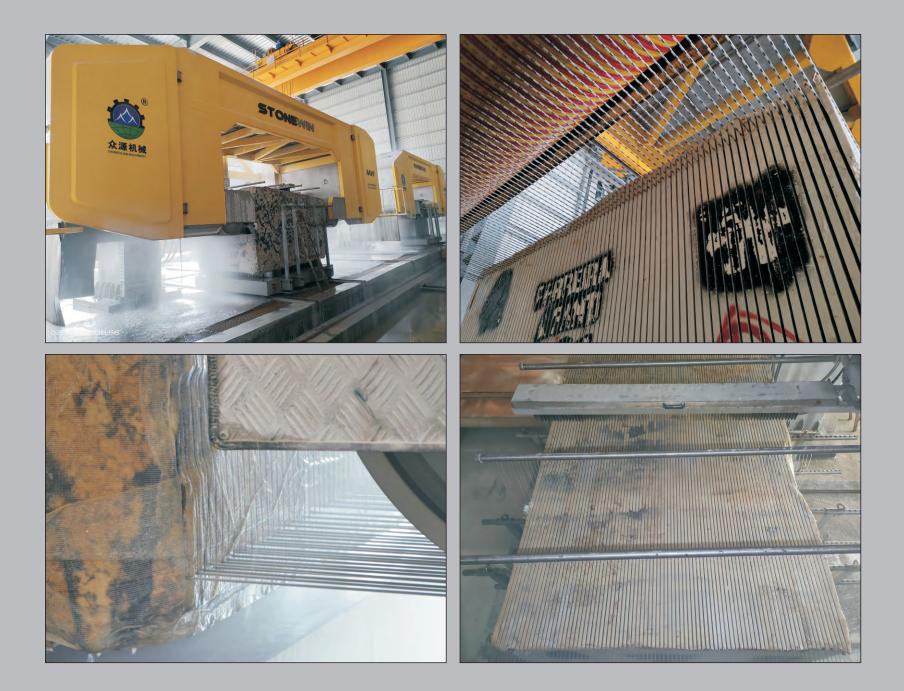




# 多组绳锯机应用场景

APPLICATION OF MULTI-WIRE SAW MACHINE









# 花岗岩开采永磁绳锯机

WIRE SAW MACHINE WITH PMSM FOR GRANITE QUARRYING





产品型号 MODEL	ZY-70YG-12P	ZY-76YG-12P	
总功率 TOTAL POWER	74KW	80KW	
主电机功率 MAIN MOTOR POWER	70KW	76KW	
主飞轮直径 FLYWHEEL DIAMETER	ф800mm		
绳锯线速度 WIRE SAW SPEED	0-33m/s		
旋转角度(电动) ROTATION ANGLE(ELECTRIC)	360°		
主机行走速度 WALKING SPEED OF MACHINE	0-140m/h		
导轨长度 RAIL LENGTH	2m*3+1m		
使用许可温度 ALLOWED WORKING TEMPERATURE	-15~+40°C		
外形尺寸:长*宽*高 DIMENSION:L*W*H	2500*1600*1530 mm	2550*1680*1570 mm	
整机重量 NET WEIGHT	3.5T	3.7T	





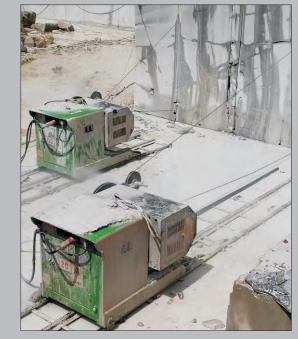


# 大理石开采永磁绳锯机

WIRE SAW MACHINE WITH PMSM FOR MARBLE QUARRYING









产品型号 MODEL	ZY-60YM-12P
总功率 TOTAL POWER	64KW
主电机功率 MAIN MOTOR POWER	60KW
主飞轮直径 FLYWHEEL DIAMETER	ф800mm
绳锯线速度 WIRE SAW SPEED	0-40m/s
旋转角度(电动) ROTATION ANGLE(ELECTRIC)	360°
主机行走速度 WALKING SPEED OF MACHINE	0-140m/h
导轨长度 RAIL LENGTH	2m*3+1m
使用许可温度 ALLOWED WORKING TEMPERATURE	-15~+40℃
外形尺寸:长*宽*高 DIMENSION:L*W*H	2320*1460*1450 mm
整机重量 NET WEIGHT	3T



## 履带式绳锯机

#### CRAWLER-TYPE WIRE SAW MACHINE FOR STONE QUARRYING



#### ♡功能特点:

- 1、采用变频器+PLC控制,内置多种传感器,可实时监测多种数据。
- 2、设备对电源的相位没有要求,不需要对电源相位进行鉴别和调换,具有断绳、过载、缺相等安全保护功能。
- 3、设备具有手动、自动切换功能,自动运行时设备可自动根据石头硬度调整进刀量,实现无人操作,一人可同时操作多台设备。
- 4、采用小尺寸背带式便携遥控操作台,可实现有效遥控距离达150m。
- 5、具备履带自动偏航校正,可保证设备始终保持在初始角度直线运行。
- 6、采用履带式自行走模式,无需铺设轨道,可根据使用需求灵活转场。
- 7、内置智慧物联系统,可在PC端、手机端实现远程监控、维护。

#### Functions and Features:

- 1.It adopts inverter + PLC control, built-in multiple sensors, can detect multiple data in real time, and improve drilling efficiency.
- 2. The equipment adopts a scissor arm type lifting mechanism, which is efficient and stable, with good lifting stability and safety.
- 3. The equipment has no requirements on the phase of the power supply, and does not need to identify and exchange the phase of the power supply. It has the safety protection functions of wire saw braking, overloading, and lack of equivalence.
- 4. Adopting a small-sized portable remote control console with a strap, it can achieve an effective remote control distance of up to 150m.
- 5. Equipped with automatic track yaw correction, it can ensure that the equipment always runs in a straight line at the initial angle.
- 6. Adopting a tracked self-propelled mode, there is no need to lay tracks and can flexibly transition according to usage needs.
- 7. Built in intelligent IoT system, remote monitoring and maintenance can be achieved on PC and mobile devices.





产品型号 MODEL	ZY-70LD-12P	ZY-76LD-12P	
总功率 TOTAL POWER	75KW	81KW	
主电机功率 MAIN MOTOR POWER	70KW	76KW	
主飞轮直径 FLYWHEEL DIAMETER	φ800mm		
绳锯线速度 WIRE SAW SPEED	0-33m/s		
最大爬坡角度 MAXIMUM CLIMBING ANGLE	±15°		
旋转角度(电动) ROTATION ANGLE(ELECTRIC)	360°		
主机行走速度 WALKING SPEED OF MACHINE	0-150m/h		
使用许可温度 ALLOWED WORKING TEMPERATURE	-15~+40°C		
外形尺寸:长*宽*高 DIMENSION:L*W*H	2500*1950*1530mm	2550*1950*1570mm	
整机重量 NET WEIGHT	3.5T	3.7T	



# 石材矿山开采绳锯机

WIRE SAW MACHINE FOR STONE QUARRYING





产品型号 MODEL	ZY-45G-6P	ZY-55G-6P	ZY-75G-6P	ZY-45G-8P	ZY-55G-8P	ZY-75G-8P
总功率 TOTAL POWER	49KW	59KW	79KW	49KW	59KW	79KW
主电机功率 MAIN MOTOR POWER	45KW-6P ( 60HP-6P )	55KW-6P ( 75HP-6P )	75KW-6P ( 100HP-6P )	45KW-8P ( 60HP-8P )	55KW-8P ( 75HP-8P )	75KW-8P ( 100HP-8P )
主飞轮直径 FLYWHEEL DIAMETER		ф800mm		ф800mm		
绳锯线速度 WIRE SAW SPEED		0-40m/s		0-33m/s		
最大切割间距 MAX.LATERAL CUTTING DISTANCE	1700mm	1700mm	1900mm	1700mm	1900mm	2050mm
旋转角度(电动 ) ROTATION ANGLE(ELECTRIC)		360°		360°		
主机行走速度 WALKING SPEED OF MACHINE	0-140m/h	0-140m/h	0-140m/h	0-140m/h	0-140m/h	0-140m/h
导轨长度 RAIL LENGTH		2m*3+1m		2m*3+1m		
使用许可温度 ALLOWED WORKING TEMPERATURE		-15~+40°C		-15~+40℃		
外形尺寸:长*宽*高 DIMENSION:L*W*H	2320*1460*1450 mm	2350*1460*1450 mm	2500*1600*1530 mm	2350*1460*1450 mm	2500*1600*1530 mm	2550*1680*1570 mm
整机重量 NET WEIGHT	2.8T	3.0T	3.5T	3.0T	3.5T	4.3T









## 洞采系列组合设备

**CAVERN TYPE QUARRYING EQUIPMENTS** 





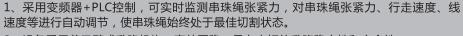
洞采钻孔机
CAVERN TYPE DRILLING MACHINI

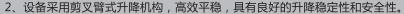


#### 洞采钻孔机 CAVERN TYPE DRILLING MACHINE 产品型号 MODEL ZY-CM550-2G 大理石 主电机功率 (Y-30KW)\*2 MAIN MOTOR POWER 绳锯线速度 WIRE SAW SPEED 0-40m/s 上下升降(电动) 650mm DISTANCE OF VERTICAL MOVING 侧面伸缩(电动) DISTANCE OF SIDE STRETCH 锯割深度 2000mm DEPTH OF CUTTING 行走电机功率 WALKING MOTOR POWER 行走速度 0-60m/h WALKING SPEED 锯割间距 DISTANCE OF CUTTING 2400mm 锯割高度 4000mm HEIGHT OF CUTTING 导轨长度 RAIL LENGTH 使用许可温度 -15~+40°C ALLOWED WORKING TEMPERATURE 外形尺寸:长\*宽\*高 2410\*2025\*3510 整机重量 5.2T NET WEIGH

洞采锯割机 CAVERN TYPE WIRE SAW MACHINE				
产品型号 MODEL	ZY-CM270-6G			
切割对象 CUTTING MATERIAL	大理石 MARBLE			
主电机功率 MAIN MOTOR POWER	(7.5KW-8P)*6			
最高转速 MAX. SPEED OF DRILL HOLE	620R/min			
上下升降(电动) DISTANCE OF VERTICAL MOVING	650mm			
侧面伸缩(电动) DISTANCE OF SIDE STRETCH	275mm			
钻孔直径 DIAMETER OF DRILL HOLE	ф270mm			
钻孔深度 DEPTH OF DRILL HOLE	2100mm			
行走电机功率 WALKING MOTOR POWER	1.5KW			
行走速度 WALKING SPEED	0-60m/h			
钻孔间距 DISTANCE OF DRILL HOLE	2400mm			
钻孔中心高度 HEIGHT OF CENTRE DRILL HOLE	4060mm			
导轨长度 RAIL LENGTH	3m*3			
使用许可温度 ALLOWED WORKING TEMPERATURE	-15~+40℃			
外形尺寸:长*宽*高 DIMENSION:L*W*H	2400*2065*3550 mm			
整机重量 NET WEIGHT	5.6T			

#### ♡ 功能特点:





3、设备对电源的相位没有要求,不需要对电源相位进行鉴别和调换,具有断绳、过载、 缺相等安全保护功能。

4、操作台显示屏实时显示主机设定的各类参数,让操作调整更便捷。

5、设备具有手动、自动切换功能,自动运行时可实现无人操作,一人可操作多台设备。

6、设备采用永磁同步电机,省电、扭矩大、效率高。

7、本设备可深入矿体内部开采,不受天气影响,同时保护矿体表层及周边生态不受破

坏,绿色环保。

#### Functions and Features:

1. Using inverter + PLC control, it can detect the tension of the wire saw in real time, and automatically adjust the tension, back-moving speed, wire speed, of the wire saw, so that the wire saw will be always in the best cutting state.

2. The equipment adopts a scissor arm type lifting mechanism, which is efficient and stable, with good lifting stability and safety.

3. The equipment has no requirements on the phase of the power supply, and does not need to identify and exchange the phase of the power supply. It has the safety protection functions of wire saw braking, overloading, and lack of equivalence.

4. The display of the console displays various parameters set by the main machine in real time, making operation adjustments more convenient.

5. The equipment has manual and automatic switching functions. Unmanned operation can be realized during automatic operation, and one person can operate multiple devices.

6. The permanent magnet synchronous motor is adopted, which saves electricity power, and has large torque and high efficiency.

7. This machine can quarry deeply into the quarry body without being affected by the weather. At the same time, it protects the surface of the quarry body and the surrounding ecology from damage, and is environmentally friendly.

#### ♡功能特点:

1、采用变频器+PLC控制,内置多种传感器,可实时监测多种数据,提高钻孔效率。

2、设备采用剪叉臂式升降机构,高效平稳,具有良好的升降稳定性和安全性。

3、设备对电源的相位没有要求,不需要对电源相位进行鉴别和调换,具有断绳、过载、缺相等安全保护功能。

4、操作台显示屏实时显示主机设定的各类参数,用户可通过实时的钻孔深度数据调整当前进刀量,让操作调整更便捷。

5、设备具有手动、自动切换功能,自动运行时设备可自动根据石头硬度调整进刀量和钻孔速度,实现无人操作,一人可同时操作多台设备。

6、使用本设备可深入矿体内部开采,不受天气影响,同时保护矿体表层及周边生态不受破坏,绿色环保。

#### Functions and Features:

1.It adopts inverter + PLC control, built-in multiple sensors, can detect multiple data in real time, and improve drilling efficiency

2.The equipment adopts a scissor arm type lifting mechanism, which is efficient and stable, with good lifting stability and safety.

3. The equipment has no requirements on the phase of the power supply, and does not need to identify and exchange the phase of the power supply. It has the safety protection functions of wire saw braking, overloading, and lack of equivalence.

4. The operation console display screen displays various parameters set by the main machine in real time, and the operator can adjust the current feeding amount through the real-time drilling depth data, making the operation adjustment more convenient.

5.The equipment has manual and automatic switching functions. During automatic operation, the equipment can automatically adjust the feeding amount and drilling speed according to the hardness of the stone, so as to realize unmanned operation, and one person can operate multiple machines at the same time.

6. This machine can quarry deeply into the quarry body without being affected by the weather. At the same time, it protects the surface of the quarry body and the surrounding ecology from damage, and is environmentally friendly.

## 移动式履带绳锯机

#### **CRAWLER TYPE WIRE SAW MACHINE**

# ZY-G系列移动分料机



#### ♡ 功能特点:

履带式绳锯机由履带车和绳锯机组合而成,属国内首创

- 1.本机灵活机动,能原地360°旋转,能适应多种工矿环境,根据工作位置的要求随时转换。
- 2.履带车的行走由柴油动力和液电组合而成,具有远程操控功能,对工作条件要求低,适应性更强。
- 3.采用液压分别控制各个支撑脚柱的升降,保证轨道的平整度和稳定性。
- 4.本机采用PLC数字控制系统实现各部分的模块组合,通过显示屏实时显示设备运行状况,设置运行参数,实现自动化操作。

#### Functions and Features:

Crawler type wire saw machine is a combination of crawler and wire saw machine. It is domestic initiative. It has features as below:

- 1.The machine is flexible and can rotates 360° on the spot. It is able to adapt to various working conditions, and change the cutting direction according to the requirement of the working position at any time.
- 2. The moving of the crawler is combination of diesel power and hydraulic power. It can be remote controlled. It has much stronger adaptability and less requirement of working condition.
- 3.The machine uses the hydraulic pressure to control the height of each supporting foot column, which to ensure the stability and flatness.
- 4.The machine adopts PLC digital control system to realize the modular combination of every parts, via the display screen to show the real-time running status and set the operating parameters to realize the automatic operation.







产品型号 MODEL	ZY-37HT-6P	ZY-45HT-6P	ZY-55HT-6P
主电机功率 MAIN MOTOR POWER	37KW-6P (50HP)	45KW-6P (60HP)	55KW <b>-</b> 6P (75HP)
主飞轮直径 FLYWHEEL DIAMETER	ф800mm	ф800mm	ф800mm
绳锯线速度 WIRE SAW SPEED	0-40m/s	0-40m/s	0-40m/s
绳锯最大长度 MAX.WIRE SAW LENGTH	20-60m	20-80m	20-100m
行走电机功率 WALKING MOTOR POWER	0.75KW (1HP)	0.75KW (1HP)	0.75KW (1HP)
旋转角度 ( 电动 ) ROTATION ANGLE(ELECTRIC)	360°	360°	360°
主机行走速度 WALKING SPEED OF MACHINE	0-60m/h	0-60m/h	0-90m/h
导轨展开长度 RAIL LENGTH	7.3m	7.3m	7.3m
使用许可温度 ALLOWED WORKING TEMPERATURE	<b>-</b> 15~+40°C	-15~+40°C	-15~+40°C
履带车动力 CRAWLER POWER	42KW (56HP)	42KW (56HP)	42KW (56HP)
外形尺寸:长*宽*高 DIMENSION:L*W*H	7300*2380*2150 mm	7300*2380*2150 mm	7300*2380*2150 mm
整机重量 NET WEIGHT	7T	7.3T	7.5T

#### ♡ 功能特点:

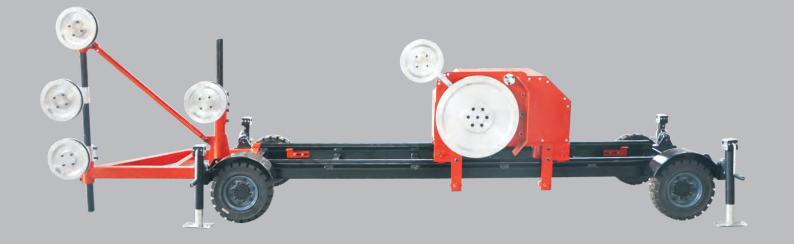
- 1.采用双变频器进行控制,应用恒张力控制原理,能根据切削力大小的变化自动调节行走速度,使串珠绳始终处于最佳的切割状态。
- 2.电控箱独立布置,维修保养极为方便。
- 3.操作台实时显示主机的设定电流、主机电流、主机转速等参数,操作调整更加简便。
- 4.设备具有手动、自动控制的切换功能,在自动运行时完全实现无人操作,一人可操作多台设备。

#### Functions and Features:

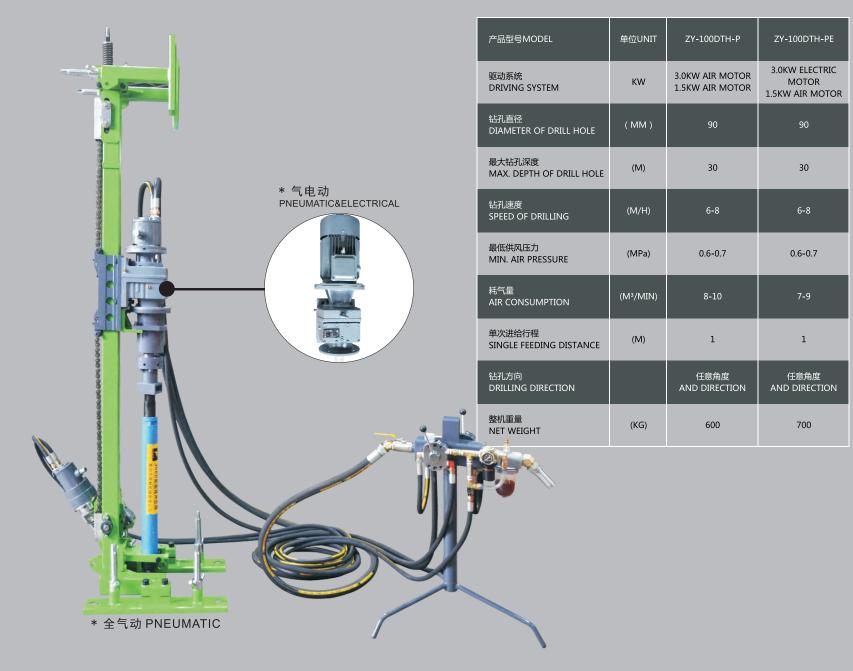
- 1.Being controlled by two sets of inverters and applying constant tension control principle, the moving speed of the machine can be adjusted automatically according to the changes of the cutting force to enable the diamond wire be in the best cutting condition all the time.
- 2.The electric cabinet is placed separately. It is easy for maintenance.

  3.The real-time parameters are displayed on the control platform, such as the set current of the main motor, the current and the rotation speed of the main motor, etc. It makes the operation and adjustment of the
- 4. The machine can be operated manually and automatically. The manual and automatic functions can be shifted from each other. Under the automatic function, the machine can be unattended operated, and one worker is able to operate multiple machines.

产品型号 MODEL	ZY-15G-4P	ZY-18.5G-4P	ZY-22G-4P
主电机功率 MAIN MOTOR POWER	15KW-4P ( 20HP-4P )	18.5KW-4P ( 25HP-4P )	22KW-4P ( 30HP-4P )
主飞轮直径 FLYWHEEL DIAMETER	φ550mm	φ550mm	φ550mm
绳锯线速度 WIRE SAW SPEED	0-40m/s	0-40m/s	0-40m/s
绳锯最大长度 MAX.WIRE SAW LENGTH	10-30m	10-35m	10-40m
行走电机功率 WALKING MOTOR POWER	0.75KW (1HP)	0.75KW (1HP)	0.75KW (1HP)
主机行走速度 WALKING SPEED OF MACHINE	0-45m/h	0-45m/h	0-45m/h
使用许可温度 ALLOWED WORKING TEMPERATURE	-15~+40°C	-15~+40°C	-15~+40℃
外形尺寸:长*宽*高 DIMENSION:L*W*H	4200*1000*1100 mm	4200*1000*1100 mm	4200*1000*1100 mm
整机重量 NET WEIGHT	0.6T	0.7T	0.8T



### 潜孔钻 **DRILLING MACHINE**





#### **AUTOMATIC HORIZONTAL CORING DRILL**





产品型号MODEL	单位UNIT	ZY-75HD-A
主电机功率 MAIN MOTOR POWER	KW	15KW-6P
钻孔直径 DIAMETER OF DRILL HOLE	( MM )	ф75
最大钻孔深度 MAX.DEPTH OF DRILL HOLE	(M)	30
钻孔速度 SPEED OF DRILLING	(M/H)	3-5
最低供水压力 MIN.WATER-SUPPLY PRESSURE	(MPa)	0.1
单次进给行程 SINGLE FEEDING DISTANCE	(M)	1.5
推进机构 POWER FEEDING DEVICE		双变频器无级调速 Stepless speed controlled by 2 inverters
钻孔方向 DRILLING DIRECTION		水平 Horizontal
整机重量 NET WEIGHT	(KG)	1000

# Ф6. 3 Ф7. 3 STONEWIN®

# 石材加工多组金刚石绳锯

#### MULTIWIRE SAW FOR GRANITE BLOCKS CUTTING



#### ፟ 功能特点:

本产品广泛应用于各类花岗岩或大理石石材的加工,具有切割效率高,切缝小,加工尺寸精准等特点。

#### Functions and Features:

This product is mainly used for cutting blocks into slabs. It has the following advantages: cutting with high efficiency, small cutting gab, and accurate dimension.

产品编号 IDENTIFICATION	规格(mm) SPECIFICATION	串珠数/米 BEADS/METER	固定 COATING
ZG05	ф5.3	37	塑料 PLASTIC
ZG06	ф6.3	37	塑料 PLASTIC
ZG07	ф7.3	37	塑料 PLASTIC









可根据客户要求特制 Other specification are available upon requirements.



# 石材矿山开采金刚石绳锯





#### ♡ 功能特点:

本产品广泛应用于各类花岗岩矿山开采,也可应用于花岗岩矿山荒料整形,具有切割效率高,污染小,成材率高,性价比高等特点。

#### Functions and Features:

This diamond wire saw is widely used in all kinds of granite quarrying, and can also be use for granite blocks squaring. The product has the following advantages: high efficiency, low pollution, high productivity and high cost effective.







产品编号 IDENTIFICATION	规格(mm) SPECIFICATION	串珠数/米 BEADS/METER	固定 COATING
ZM12	φ11.5	32/36/38/40	橡胶+弹簧 RUBBER+SPRING
ZM12	φ11.5	28/30/32	弹簧 SPRING
ZG12	φ11.5	38/40	橡胶 RUBBER
ZG13	φ12.0	40	橡胶 RUBBER
ZC12	φ11.5	40	橡胶+弹簧 RUBBER+SPRING
ZC10	ф10.5	40	橡胶+弹簧 RUBBER+SPRING

可根据客户要求特制 Other specification are available upon requirements.

## 主要配件 MAIN ACCESSORY

## 开采示意图 QUARRYING DRAWING







