



STONE QUARRYING EQUIPMENT

> PIONEER SOLUTIONS <



TOOLWITS

QUANZHOU TOOLWITS NEW MATERIAL TECHNOLOGY CO.,LTD

Add: Lvgu High-tech Industrial Base, Taiwanese Investment Zone,

Quanzhou City, Fujian Province, China 362022 (Factory)

Room 811, Fuxin Wealth Center, NO.55 Chenzhou Road,

Fengze District, Quanzhou City, Fujian Province, China (Office)

Mobile / WhatsApp / Wechat: +8613626067625

QQ: 399611083

E-mail: jay@toolwits.com

Website: www.toolwits.com



» 2022 09

QUANZHOU TOOLWITS

DIRECTORY



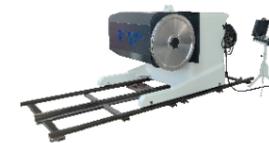
Quanzhou ToolWits New Material Technology Co., Ltd. has been focusing on technology improvement and long term cooperation as well as considerate service for more than 14 years, and has 3 factories producing diamond tools and stone quarrying equipment, with full range of products from stone quarry exploiting equipment to factory processing diamond tools and diamond tools for construction. We dedicate to provide quarry planning and solutions, as well as related services for stone, construction and ceramic cutting and processing.



The Technical Team



After-Sales Team



- ◆ **Diamond Wire Saw Machine** 03
 - Diamond Wire Saw Machine For Marble Quarrying 04
 - Diamond Wire Saw Machine For Granite Quarrying 05/06
 - Permanent Magnet Motor Wire Saw Machine For Quarrying 07
- Block Squaring Wire Saw Machine** 08
 - 22KW Reversible Wire Saw Machine 08
 - Long Type Wire Saw Machine 08
 - Small Wire Saw Machine 08
 - Diamond Wire Saw Machine For Reinforced Concrete 09



- ◆ **DTH Drilling Machine** 09



- ◆ **Horizontal Core Boring Machine** 10



- ◆ **Pneumatic Rock Driller** 11



- ◆ **Double-Blade Quarrying Machine** 12



- ◆ **Diamond Wire Saw** 13
 - Wire Saw For Granite Quarrying 14
 - Wire Saw For Marble Quarrying 14
 - Wire Saw For Block Cutting 15
 - Wire Saw For Reinforced Concrete 16



- ◆ **Quarry Consumables** 17/18

Diamond Wire Saw Machine



Features

1. Controlled with two inverters, and automatically constant tensioning system keeps the wire always in optimal working condition and extend the life span of diamond wire.
2. Electric auto rotation system from 0-360 degree makes horizontal, vertical or any angle cutting available, and photoelectric proximity switch is installed for limit protection.
3. Separate control panel showing the main motor set electric current, main motor real time electric current, main motor RPM and etc, and with feature of multi-language, all of which make it easy and safe for operator.
4. With the function of manual and auto operation control system, under the auto operation mode, one person can take care several machines working concurrently.
5. With full Digital communication technology, and apply cable only 4 cores, which decreasing the failures and convenient for troubleshooting and repairing.

Diamond Wire Saw Machine For Marble Quarrying

Because of the environmental pollution and waste, the old-style explosive way of quarry exploitation is forbidden now in many countries. This way of quarry exploitation makes a great evolution in the quarry industry. It is very flexible and high efficiency.



Model	TW-M-37-8P	TW-M-45-8P	TW-M-55-8P	TW-M-75-8P
Mainmotor power	37-8P	45-8P	55-8P	75-8P
Flywheel diameter	Φ800mm	Φ800mm	Φ800mm	Φ1000mm
Wire saw speed	0-40m/s	0-40m/s	0-40m/s	0-40m/s
Max.wire saw length	10-70M	10-90M	10-120M	10-150M
Walking motor	0.75KW	0.75KW	0.75KW	0.75KW
power speed of machine	0-1200mm/m	0-1200mm/m	0-1200mm/m	0-1200mm/m
Rotation angle(electric)	360	360	360	360
Lateral moving distance	60cm	60cm	60cm	60cm
Max.lateral cutting distance	1900mm	1900mm	1900mm	1900mm
Rail length	2m*3	2m*3	2m*4	2m*5
Allowed working temperature	-15-43	-15-43	-15-43	-15-43
Dimension(L*W*H)	2000*1400*130mm	2000*1450*130mm	2000*1450*1300mm	2000*1500*1400mm
Net weight	2650kg	2750kg	2900kg	3500kg

Diamond Wire Saw Machine For Granite Quarrying

From the principle of wood sawing, people design and invent a hard material cutting equipment, that is wire saw machine, and it is actuated by electric motor, using diamond wire saw together with flywheel or guide wheel to make it cut smoothly and efficiently.



Manual Mode



Automatic Mode



Remote Control



Rotation Standby Control

Note:

We have different configurations available:

Standard type: inverter, motor and electric parts supplied by listed enterprises, those of which made in China.

Reinforced type: inverter, motor and electric parts supplied by international companies like Schnider, Yaskawa, Siemens and etc, those of which imported.

Permanent magnet motor type: Recent years, there is popular type installed with permanent magnet motor, which improves the efficiency highly, so it can be your choice. For more details, please feel free to contact us.



Model	TW-G-37-8P	TW-G-45-8P	TW-G-55-8P	TW-G-75-8P
Mainmotor power	37-8P	45-8P	55-8P	75-8P
Flywheel diameter	Φ 800mm	Φ 800mm	Φ 800mm	Φ 1000mm
Wire saw speed	0-30m/s	0-30m/s	0-30m/s	0-30m/s
Max.wire saw length	10-70M	10-90M	10-120M	10-150M
Walking motor power	0.75KW	0.75KW	0.75KW	0.75KW
Walking speed of machine	0-1200mm/m	0-1200mm/m	0-1200mm/m	0-1200mm/m
Rotation angle(electric)	360	360	360	360
Lateralmoving distance	60cm	60cm	60cm	60cm
Max.lateral cutting distance	1800mm	1800mm	1800mm	1900mm
Rail length	2m*3	2m*3	2m*4	2m*5
Allowed working temperature	-15-43	-15-43	-15-43	-15-43
Dimension(L*W*H)	2000*1400*1300mm	2000*1450*1300mm	2000*1450*1300mm	2000*1500*1400mm
Net weight	2700kg	2800kg	3000kg	3500kg

Permanent Magnet Motor Wire Saw Machine For Quarrying



Model	TW-55-12PM
Main motor power	55-12P
Flywheel diameter	Φ800mm
Wire saw speed	0-30m/s
Max.wire saw length	10-120M
Walking motor power	0.75KW
Walking speed of machine	0-1200 mm/m
Rotation angle(electric)	360
Lateral moving distance	60 cm
Max.lateralcutting distance	1800 mm
Rail length	2m*4
Allowed working temperature	-15 -43
Dimension(L*W*H)	2000*1450*1300mm
Net weight	3000 kg

Permanent Magnet Motor Wire Saw Machine is using permanent magnet synchronous motor to increase the working efficiency.

Compared with AC synchronous motor machine, it will highly increase the efficiency about 30-40%.

Features of Permanent Magnet Motor Wire Saw Machine:

1. More energy conservation and environment protection, average saving 7%-29% electric energy.
2. Low frequency with big torque, easier for starting up.
3. Constant torque output much higher cutting efficiency.
4. Highly increase the service efficiency for the quarry electric supply.
5. Increase the applicability for the variation in voltage.

Block Squaring Wire Saw Machine

Block Cutting Wire Saw Machine is mainly used for squaring irregular blocks and is widely used in quarries and factories.

Model	TW-22-6P
Mainmotor power	22KW-6P
Flywheel diameter	Φ550MM
Wire saw speed	0-40M/S
Max.wire saw length	5-40M
Walking motor power	0.75KW
Walking speed of machine	0-50CM/S
Rail length	2M
Dimension (L*W*H)	2000*800*700 mm
Net weight	450KG

22KW Reversible Wire Saw Machine



Long Type Wire Saw Machine



Small Wire Saw Machine



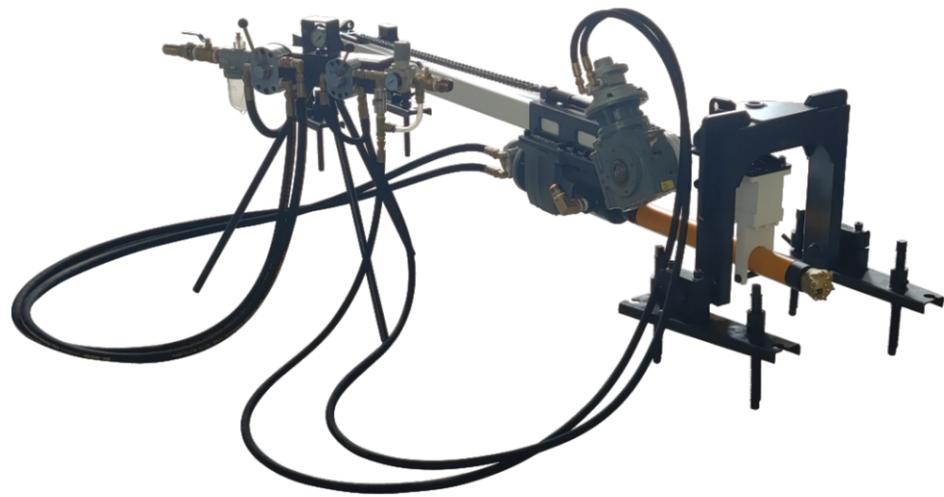
Diamond Wire Saw Machine For Reinforced Concrete

Concrete Wire Saw Machine is widely used for reconstructing building engineering and strengthening the construction, and it is suitable for reinforced concrete, rock, ceramic, brick wall to open a door, window, or vents at the wall, as well as for reinforced concrete beam and pillar, floor, bridge cutting and processing.



DTH Drilling Machine

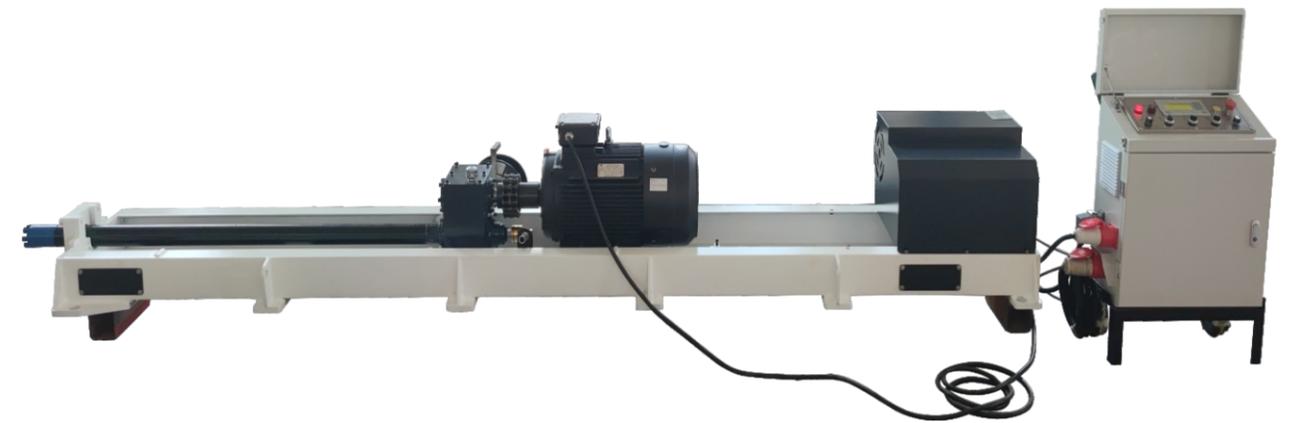
DTH Drilling Machine is a hole drilling machine, using impact force of the DTH Hammer and DTH Button Bit to crush the rock, normally is Dia. 90mm, other diameters are available. It can drill in horizontally or vertically.



Model	TWQZ	TWQDZ	TWQYZ
Product line	Pneumatic	Pneumatic & Electric	Pneumatic & Hydraulic
Dimeter of drill hole	Φ90-Φ100	Φ90-Φ100	Φ90-Φ165
Air consumption	≥12M ³	≥7M ³	≥7M ³
Air pressure during working	0.5-0.7Mp	0.5-0.7Mpa	0.5-0.7Mpa
Max.depth of drill hole	20-40m	20-40m	20-40m
Single feeding distance	1.2m	1.2m	1.5m
Speed of drilling	5-10m/h	5-10m/h	6-8m/h

Horizontal Core Boring Machine

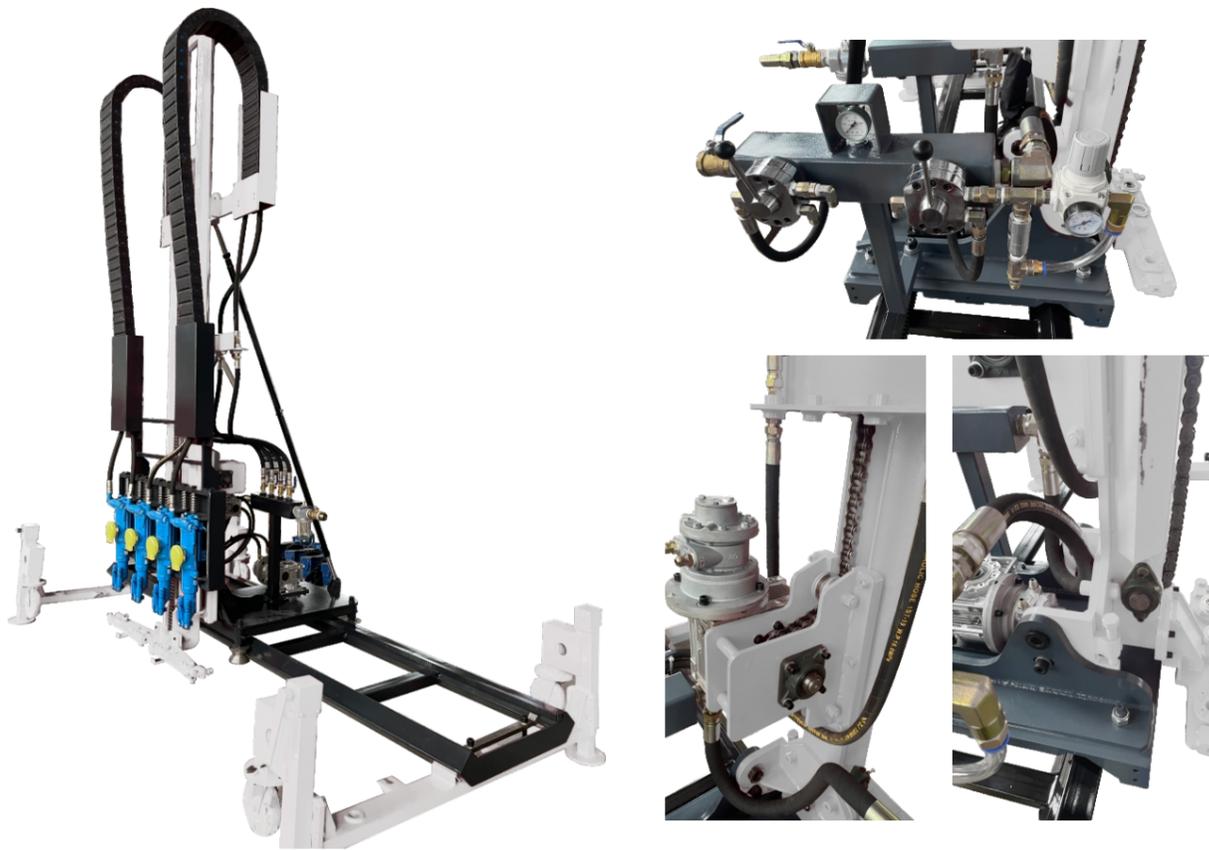
Horizontal Core Boring Machine is a hole drilling machine in horizontal, and it applies electric motor drive, using the core drill bit to drill and cooling with water, and it max can drill 50m depth. There are two types available: Variable Speed Horizontal Core Boring Machine and Fix Speed Horizontal Core Boring Machine.



Model	TWHDF	TWHDV
Mainmotor power	22KW	22KW
Rotation mode	electric auto	electric auto
Walking motor power	0.45KW	0.45KW
Moving forward mode	/	inverter controlling
Dimeter of drill hole	Φ76MM	Φ76MM
Drilling rod specification(dia.*length)	Φ73*1500MM	Φ73*1500MM
Single feeding distance	1500MM	1500MM
Speed of drilling	5-10M/S	5-10M/S
The minimum pressure for cooling water supply	0.1Mpa	0.1Mpa
Max.depth of drill hole	50M	50M
Net weight	1200KG	1200KG

Pneumatic Rock Driller

It is an impact drilling machine that powered by compressed air. It can drill horizontally or vertically. And as an automatic product, it can efficiently reduce the labor.



Hole Diameter	Dia-34 mm - Dia-42 mm
Drill depth	Max.6m
Single rod drill speed	5-20m/h
Single advance	3m
Air consumption	17-20m3/min
Air pressure	0.5-0.7Mpa
Track travel	2x3m
Advance power	1.5KW
Total weight	1200KG

Double-Blade Quarrying Machine

It is mainly used when the quarry condition is good and there is enough space to place the guide rail and the machine. It is usually used together with the wire saw machine in horizontally cutting to make mining more economical and more efficient.



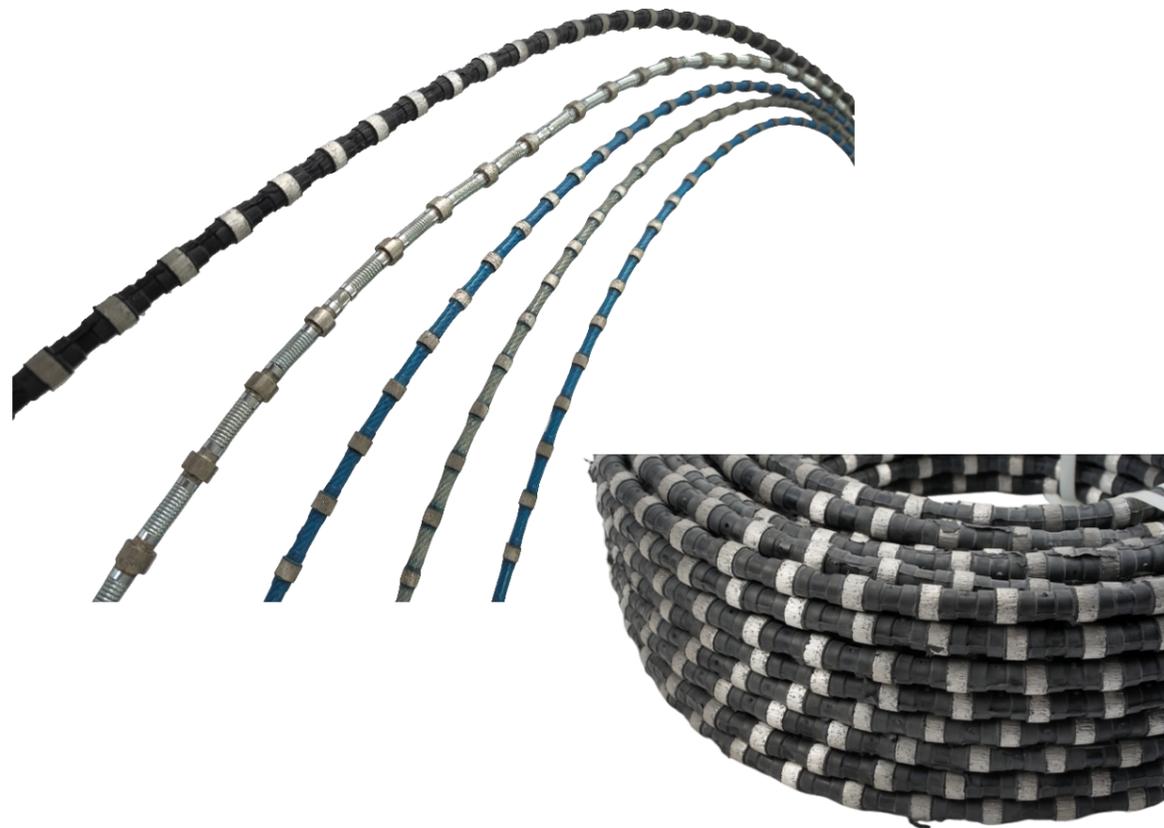
Note:

We have different configurations available, for more details, please feel free to contact us.

Model	TW1360-1900	TW1500-2100	TW1950-2450	TW2600-3100
Blade diameter (mm)	φ2200*2-φ3600*2	φ2200*2-φ3600*2	φ2400*2-φ4800*2	φ2400*2-φ4800*2
Cut width (mm)	1360-1900	1500-2100	1950-2450	2600-3100
Max.cut depth (mm)	1550	1550	2150	2150
Main motor power (kW)	55*2	55*2	65*2	65*2
Total power (kW)	118	118	138	138
Water consumption (m ³ /h)	5	5	5	5
Track spacing (mm)	1140	1290	1670	2200
Machine dimensions (mm)	4150*1540*3100	4150*1680*3100	4150*2140*3100 (3.6m) 5200*2140*3600 (4.8m)	4150*2800*3100 (3.6m) 5200*2800*3600 (4.8m)
Total weight (kg)	≈8300	≈8300	10000-11000	11000-12000

Diamond Wire Saw

Wire Saw is a flexible cutting tool, and there is rubber type, plastic type and spring type. Compared with the traditional blasting quarrying method, the wire saw cutting is safer. It has the characteristics of low pollution, low noise, less material waste, and regular block sizes.



Wire Saw For Granite Quarrying

Specification	11.5	12	12.5	11.5	12	12.5
Fixed by	rubber	rubber	rubber	rubber+spring	rubber+spring	rubber+spring
Beads No./m	37/40	37/40	38/40	37/40	37/40	38/40
Cutting material	Soft granite	Medium hard granite	Hard granite	Soft granite	Medium hard granite	Hard granite
Cutting speed	20-30	15-25	10-15	15-30	15-25	10-15
Wire life	25-35	15-25	10-15	25-35	15-25	10-15
Line speed	28-33	28-33	28-30	28-33	28-33	28-30

Wire Saw For Marble Quarrying



Specification	11/11.5	11/11.5	11/11.5	11/11.5	11/11.5	11/11.5	11/11.5	11/11.5	11/11.5
Fixed by	Spring	Spring	Spring	Rubber	Rubber	Rubber	Rubber+Spring	Rubber+Spring	Rubber+Spring
Beads No./m	28-33	28-33	28-33	37/40	37/40	37/40	37/40	37/40	37/40
Cutting material	Soft Marble	Medium Hard Marble	Ultra hard Marble	Soft Marble	Medium Hard Marble	Ultra hard Marble	Soft Marble	Medium Hard Marble	Ultra hard Marble
Cutting speed	10-25	8-16	5-10	10-25	8-16	5-10	10-18	8-16	5-10
Wire life	30-55	15-35	15-25	30-55	15-35	15-25	30-55	15-35	15-25
Line speed	30-38	30-35	28-35	35-40	33-40	28-35	35-40	33-40	28-35

Wire Saw For Block Cutting

Normally it is plastic type, and with three purpose as:
 Cutting the block into slabs with the required thickness
 Block squaring
 Stone profiling



For Granite

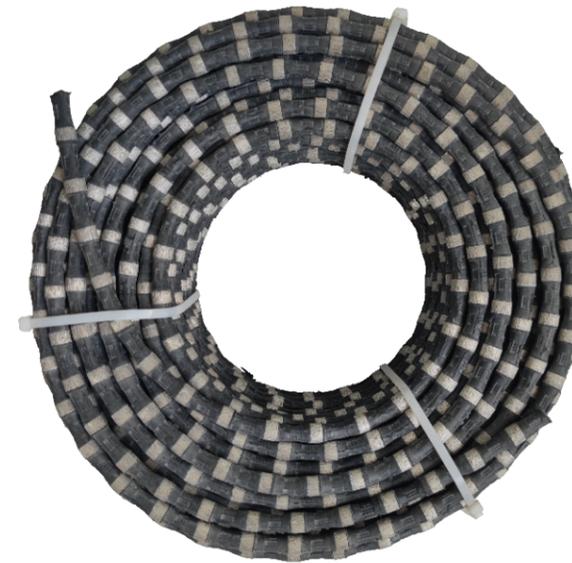
Specification	Beads /m	Fixing	Material hardness	Efficiencym ² /h	Life spanm ² /m	Line speedm/s
9	37	Plastic	1-2 class	0.8-1.1	8-10	26-28
10.5	37		3-4 class	1-1.3	10-16	26-30
11	37/40		5 class	1.3-2	12-20	26-32

For Marble

Specification	Beads /m	Fixing	Material hardness	Efficiencym ² /h	Life spanm ² /m	Line speedm/s
9	33	Plastic	Mixed Marble	1.5-2.5	25-40	30-40
10.5	33				30-45	

Wire Saw For Reinforced Concrete

Concrete Wire Saw is competent in steel close-packed structure building, thick brick wall, and even underwater cutting. And in some conditions, the wall saw blade cannot work, but the diamond wire saw can, in any deepness and any angle cutting. It is environmental suitability and has better working performance compared with saw blade cutting.

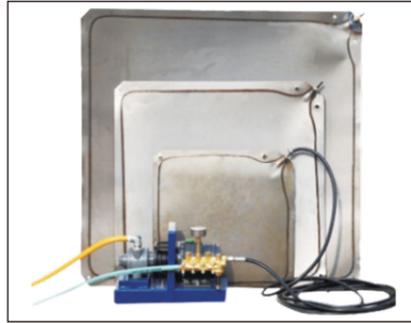


Specification	10.5/11.5	10.5/11.5	10.5/11.5	10.5/11.5	10.5/11.5
Fixed by	Rubber+Spring	Rubber+Spring	Rubber+Spring	Rubber+Spring	Rubber+Spring
Beads No./m	40	40	40	40	40
Cutting material	Brick concrete structure	fine reinforced concrete	thick reinforced concrete	High density reinforced concrete	Steel Structure
Cutting speed	3-8	2-6	1.5-3	1-2.5	0.5-1.5
Wire life	3-8	2.5-5	2-3	1.5-2.5	0.8-1.5
Line speed	20-30	20-28	18-25	18-25	15-20

Quarry Consumables



Capstone Air Bag



Capstone Water Bag



Pulley:380mm,800mm,1000mm



Guide Wheel



Rubber Belt



DTH Bit



DTH Hammer



Drilling Rod



Core Drill Bit



Coreless Drill Bit



Electroplating Core Bit



Electroplating Coreless Bit

Quarry Consumables



Fat Bit



Button Bit



Cross Bit



Tapered Rod



Handheld Rock Driller



Hydraulic Pressor



Scissor



Wire Saw Connector



Moveable Connector



Jack Hydraulic Pressor



Pneumatic Splitter



Internal Combustion Rock Drill