



Make Stone Processing Easier

# *Bridge Cutter Series*

## *Introduction*



# Bridge Cutter Machine

## DFQ-H450/600/800



### Introduction

This equipment adopts PLC programmable control system and human-machine interactive operation interface, which is simple to operate and can easily complete the stone cutting work without professional skills. Meanwhile, it adopts infrared ray to align the saw to ensure accurate cutting, which is suitable for straight line cutting and processing of granite, marble, rock slab, tile and other stone.

### Feature

- **High Cutting Accuracy:** Adopting microcomputer programme control and laser ray saw alignment technology, it can achieve high-precision cutting and ensure the quality and accuracy of the products.
- **Good Stability:** The main body of the machine is made of integrated casting not easy to deform , which can ensure the smoothness and precision of cutting without wasting materials.
- **High Reliability:** Adopting domestic brand motor and imported electronic components, high configuration and good performance.
- **High Flexibility:** The table is capable of 90°/360° rotation and 0°~85° tilt.

### Parameters

Name	Unit	DFQ-H450	DFQ-H600	DFQ-H800
Blade diameter	mm	Φ300~450	Φ300~600	Φ450~800
Lifting range	mm	230	410	530
Worktable dimension(L*W)	mm	3200*2000	3200*2000	3200*2000
Worktable tilting degree	n°	0~85	0~85	0~85
Worktable rotating degree	n°	0~90 or 360	0~90 or 360	0~90 or 360
Maximum cutting thickness	mm	100	170	270
Water consumption	m <sup>3</sup> /h	4	4	4
Main motor power	kw	15	18.5	22
Total power	kw	20.9	24.4	28
Weight	kg	8500	9000	9650
Overall dimensions (L*W*H)	mm	4700*5800*2300	4700*5800*3400	4700*5800*3800



**Jib Crane**



**Marble Saw Blades**



**Granite Saw Blades**

# Bridge Cutter Machine

## DFQ-Z1200



### Introduction

This equipment adopts bridge structure, the main beam and side beams are oil-immersed sealed guide rails, durable. Meanwhile, it adopts domestic brand motor, equipped with 90°rotating table, flexible rotation, accurate positioning, good rigidity, both simple operation, smooth cutting, high productivity, etc. It is suitable for granite, tombstone, roadside stone processing.

### Feature

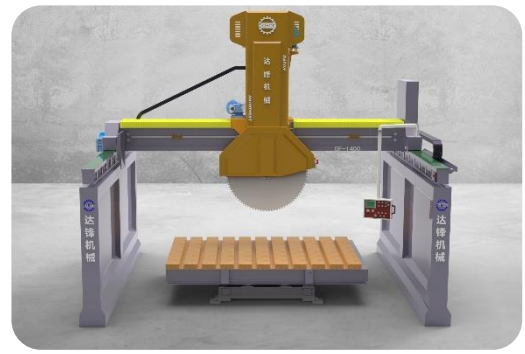
- **High Cutting Accuracy:** Adopting microcomputer programme control and laser ray knife alignment technology, it can achieve high-precision cutting and ensure the quality and accuracy of the products.
- **Good Stability:** The machine adopts elastic base plate and high power and high speed cutting motor, which can ensure the smoothness and reliability of cutting and reduce the possibility of problems.
- **High Reliability:** Adopting high-precision linear guide and laser probe to ensure the reliability and stability of cutting.
- **High Flexibility:** The table is capable of 90° rotation.

### Parameters

Name	Unit	DFQ-Z1200
Blade diameter	mm	Φ600~1200
Lifting range	mm	850
Worktable dimension(L*W)	mm	3000*2000
Worktable rotating degree	n°	0~90
Water consumption	m³/h	4
Main motor power	kw	22
Total power	kw	28
Weight	kg	11000
Overall dimensions (L*W*H)	mm	4700*5900*4600



**Jib Crane**



**Heavy-Duty Type Bridge cutter machine**

# Multi-blade Bridge Cutter

## DFQ-Q600/800



### Introduction

This equipment is improved and upgraded based on bridge cutter machine, it adopts PLC to control multiple saw blades cutting at the same time, it can use up to 7 pieces saw blades with diameter 800mm, the trolley can be rotated by 90°, which saves the cutting process and greatly improves the production efficiency, and the casting cross and the more powerful motors make the multi-slice cutting smoother and more efficient, it is suitable for the paving stones, kerbstone and cobblestone etc.

### Feature

- **High Output:** Up to 7 saw blades with diameter 800 mm can be suspended and operated at the same time, significantly increasing production.
- **High Cutting Accuracy:** Adopting microcomputer programme control and infrared ray knife alignment technology, it can achieve high-precision cutting and ensure the quality and accuracy of the products.
- **Good Stability:** Heavier beams and more powerful motors, as well as a weighted table, ensure smooth and reliable cutting.



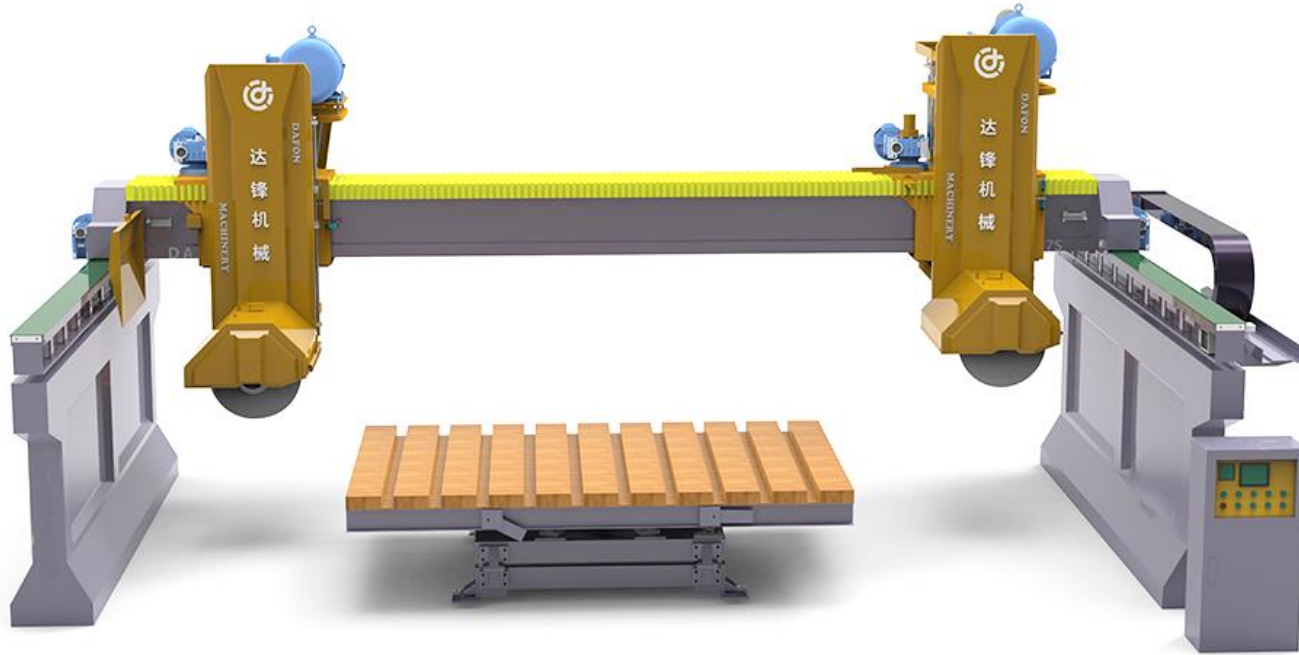
### Parameters

Name	Unit	DFQ-Q600	DFQ-Q800
Blade diameter	mm	Φ600	Φ800
Maximum number of saw blades	pcs	7	7
Upanddown range	mm	550	550
Worktable dimension(L*W)	mm	3200*2000	3200*2000
Worktable tilting degree	n°	0~85	0~85
Worktable rotating degree	n°	0~90	0~90
Maximum cutting thickness	mm	150	250
Water consumption	m <sup>3</sup> /h	8	8
Effective spindle length	mm	600	600
Spindle diameter	mm	Φ100	Φ100
Main motor power	kw	37	37
Total power	kw	44	44
Weight	kg	13500	
Overall dimensions (L*W*H)	mm	6300*4700*3800	



# Double Heads Multi-blade Bridge Cutter

DFQ-SQ600/800



## Parameters

Name	Unit	DFQ-SQ600/800
Blade diameter	mm	Φ450~800
Maximum number of saw blades	pcs	7
Max. cutting depth	mm	150
Worktable dimension(L*W)	mm	3200*2000
Worktable rotating degree	n°	0~90
Water consumption	m <sup>3</sup> /h	16
Effective spindle length	mm	600
Max. processing size (L*W*H)	mm	3200*2000*150
Main motor power	kw	37kw*2
Total power	kw	85.2
Weight	kg	22000
Overall dimensions (L*W*H)	mm	8320*5200*3750



# 3-axis Bridge Cutter

## DFQ-S350A



### Introduction

This machine adopts bridge structure and comes standard with frequency converter to achieve infinitely variable speed cutting, which can meet the needs of different cutting scenarios. It is also equipped with high-precision accessories such as cutting work platform, double servo motor drive, P6 level grinding bevelled teeth, oil-immersed sealing guide rail, etc. It has the features of high cutting precision, good stability, simple operation, high productivity, etc. It is suitable for 45° chamfering cutting of all kinds of stone finishing such as rock slabs, marble, granite and luxury stone.

### Feature

- **Easy Handling:** Adopting PLC programmable control system (optional CNC system) and human-machine interactive operation interface, easy to operate
- **High Cutting Accuracy:** Adopting high precision linear guide rail with P6 grade high precision grinding bevelled teeth to ensure the precision and quality of cutting.
- **Good Stability:** Motor, bearing, pressing wheels and hydraulic parts are all from China or international first-class brands.
- **High Flexibility:** The equipment adopts integrated body, beam integrated casting, the overall rigidity is good, the head can be rotated and tilted to meet different cutting needs.



### Parameters

Name	Unit	DFQ-S350A
Blade diameter	mm	Φ250~350
Maximum processing size(L*W*H)	mm	3200*2000*50
Worktable dimension(L*W)	mm	3200*2000
Blade rotating degree	n°	0~90
Blade max chamfering size	n°	0~45
Worktable tilting degree	n°	0~85
Worktable rotation angle	n°	Optional
Water consumption	m <sup>3</sup> /h	4
Main motor power	kw	11
Total power	kw	16.2
Weight	kg	3500
Overall dimensions (L*W*H)	mm	5000*3000*2700



# 4-axis Bridge Cutter

## DFQ-F350/F600



### Introduction

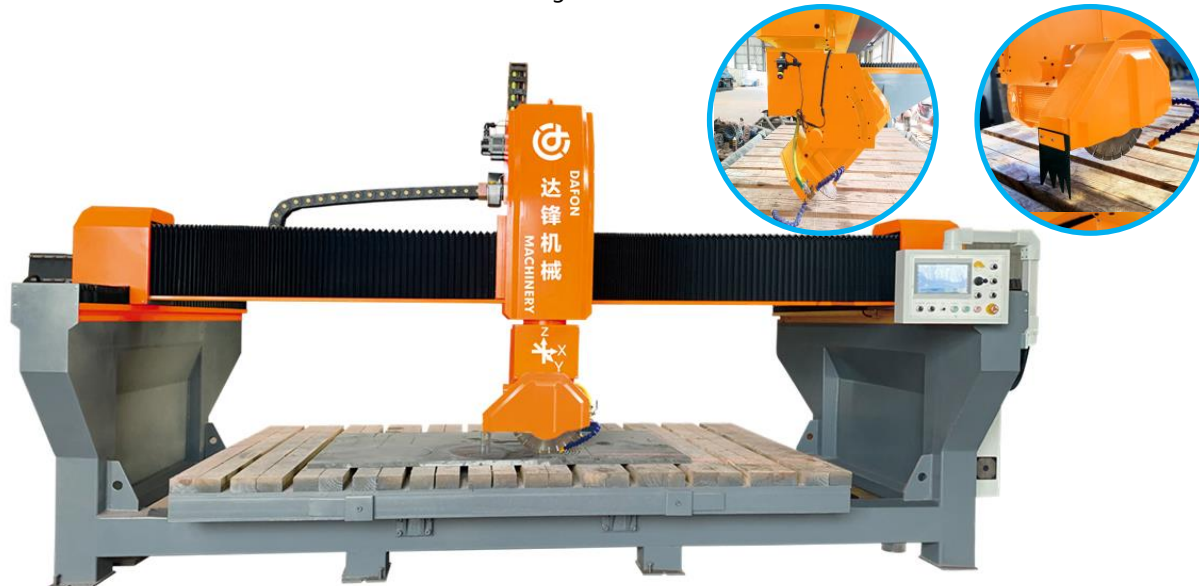
This equipment adopts integrated body for easy installation and movement, the beam adopts integrated casting, standard with frequency converter to achieve infinitely variable speed cutting, add the voltage regulator to ensure the stability of precision electronic components, reduce the electronic components failure due to unstable voltage. x, y, z axis are used in the linear guide walking more silky smooth, suitable for stone finishing, chamfering splicing and so on, as well as the table panel cutting.

### Feature

- **Easy Handling:** Adopting PLC programmable control system (optional CNC system) and human-machine interactive operation interface, easy to operate.
- **High Cutting Accuracy:** Adopting high precision linear guide rail with P6 grade high precision grinding bevelled teeth to ensure the precision and quality of cutting.
- **Low Energy Consumption:** Adopting high-efficiency energy-saving motor, with the same output, energy consumption is lower, and the comprehensive cost can be reduced by about 15%~20%.
- **Good Stability:** Motor, bearing, pressing wheels and hydraulic parts are all from China or international first-class brands.
- **High Flexibility:** The equipment adopts integrated body, beam integrated casting, the overall rigidity is good, the head can be rotated and tilted to meet different cutting needs.

### Parameters

Name	Unit	DFQ-F350	DFQ-F600
Blade diameter	mm	Φ250~350	Φ625
Maximum processing size(L*W*H)	mm	3200*2000*50	3200*2000*180
Worktable dimension(L*W)	mm	3200*2000	3200*2000
Blade rotating degree	n°	0~360	0~360
Blade max chamfering size	n°	0~45	0~45
Worktable tilting degree	n°	0~85	0~85
Worktable rotation angle	n°	Optional	Optional
Water consumption	m <sup>3</sup> /h	4	4
Main motor power	kw	15	18.5
Total power	kw	24.5	28.9
Weight	kg	3700	4000
Overall dimensions (L*W*H)	mm	5000*3000*2700	5500*3150*3430



Clamp

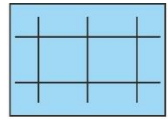


Marble Saw Blades



Granite Saw Blades

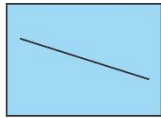
## 💡 4-axis Bridge Cutter Cutting Graphics Effect



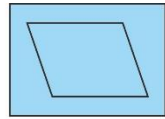
规格板  
Cut To Size



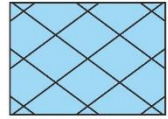
矩形  
Rectangle



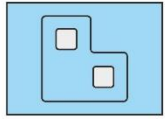
任意直线  
Any Straight



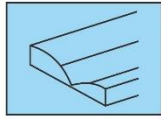
平行四边形  
Parallelogram



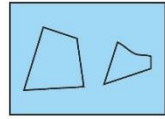
菱形网格  
Rhombus



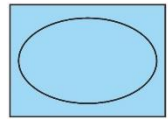
灶台面  
Countertop



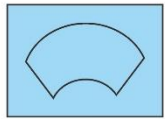
弧线仿  
Arc Profiling



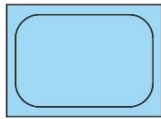
异型切割  
Irregular Cut



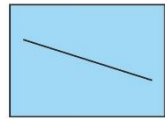
圆形/椭圆形  
Circle/Oval



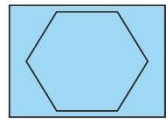
扇形  
Sector



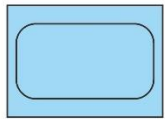
马肚边  
Countertop Cut



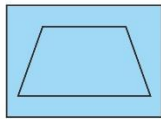
任意直线/斜线  
Any Straight/Diagonal Line



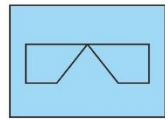
正多边形  
Regular Polygon



直边圆角  
Countertop Cut



梯形  
Trapezoid



正反倒角  
Front And Back Chamfering





# 4+1 Bridge Cutter

## DFQ-(4+1)350/ DFQ-FG(4+1)350

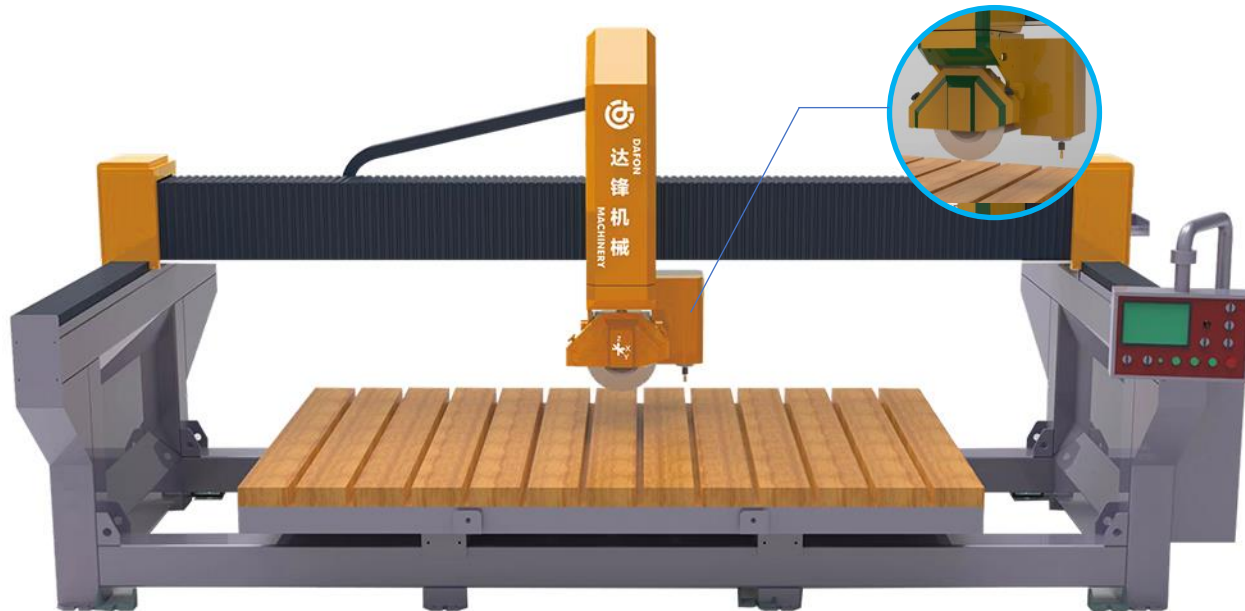


### Introduction

Based on the four-axis cutting machine with additional milling cutter, which is suitable for digging holes or cutting countertop slabs such as granite marble and quartz stone.

### Feature

- **Easy Handling:** Adopting PLC programmable control system (optional CNC system) and human-machine interactive operation interface, easy to operate.
- **High Cutting Accuracy:** Adopting high precision linear guide rail with P6 grade high precision grinding bevelled teeth to ensure the precision and quality of cutting.
- **Low Energy Consumption:** Adopting high-efficiency energy-saving motor, with the same output, energy consumption is lower, and the comprehensive cost can be reduced by about 15%~20%.
- **Good Stability:** Motor, bearing, pressing wheels and hydraulic parts are all from China or international first-class brands.
- **High Flexibility:** The equipment adopts integrated body, beam integrated casting, the overall rigidity is good, the head can be rotated and tilted to meet different cutting needs.



### Parameters

Name	Unit	DFQ-F(4+1)350	DFQ-FG(4+1)350
Blade diameter	mm	Φ250~350	Φ300~450
Maximum processing size(L*W*H)	mm	3200*2000*50	3200/3500*2000*200
Worktable dimension(L*W)	mm	3200*2000	3200/3500*2000
Blade rotating degree	n°	0~360	0~360
Blade max chamfering size	n°	0~45	0~45
Worktable tilting degree	n°	0~85	0~85
Worktable rotation angle	n°	Optional	Optional
Water consumption	m <sup>3</sup> /h	3.5	4
Main motor power	kw	15	18.5
Engraving spindle power	kw	5.5	5.5
Total power	kw	28.9	32.4
Weight	kg	3700	4200
Overall dimensions (L*W*H)	mm	5000*3150*2700	5600/5900*3360*2860



# 5-axis Bridge Cutter

## DFQ-W350



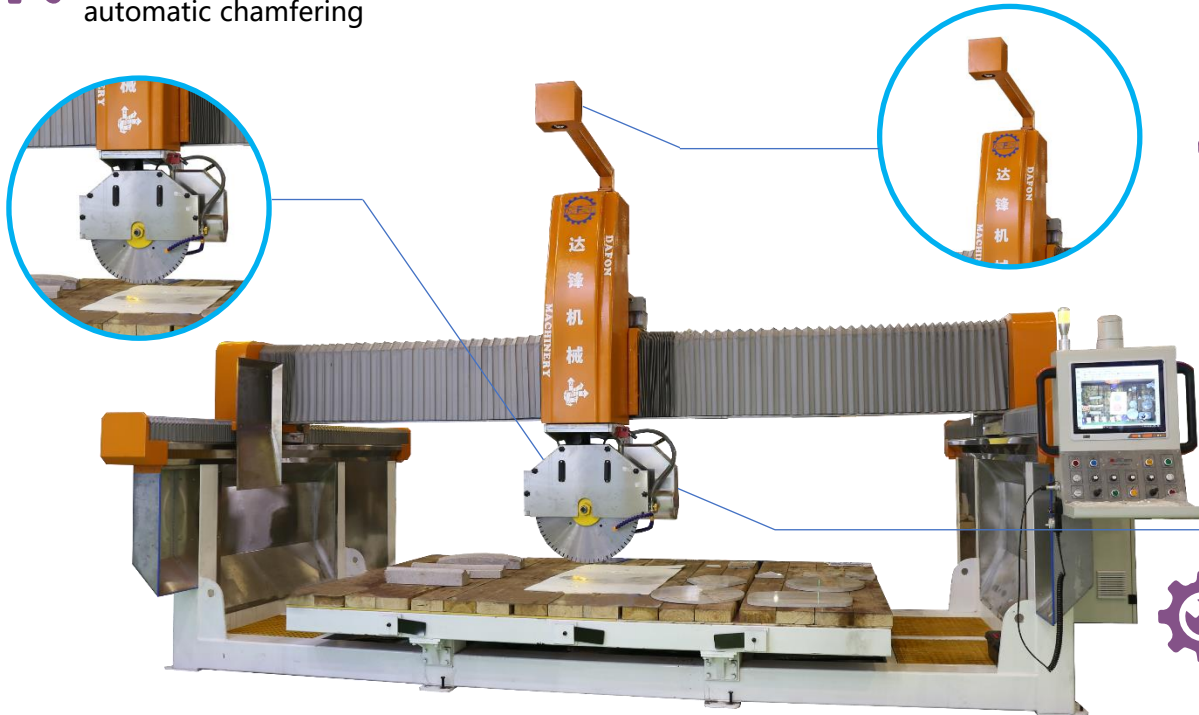
### Introduction

This equipment adopts five-axis linkage control, which can realise complex processing of shaped curved surfaces, and integrates the multifunctional functions of milling, cutting, drilling and engraving. Meanwhile, it adopts CNC control system and man-machine operation interface, which is easy to operate, featuring high cutting efficiency, high precision and good stability, and is suitable for processing high-value large-size granite, marble and rock slabs.



#### Head rotation and tilt

The machine head can be automatically positioned from 0 to 360 degrees, and the saw blade can be tilted from 0 to 90 degrees for automatic chamfering



### Feature

- **High Cutting Accuracy:** The structure adopts an overall steel frame with a stable structure. At the same time, the straight-line guide movement is used to make the cutting more stable and the accuracy.
- **Simple Operation:** Users can produce or external CAD CNC files in this machine. Through the system call, processing simulation demonstration and processing code, processing and running parameters can be adjusted manually without stopping and automatically reinventing processing step -distance code.
- **High Flexibility:** The main shaft is installed on the swing shaft. The swinging shaft of the servo motor can be swung at 0~90°, Tilt up and down from 0~85°.
- **Diverse Graphics:** Compared to the four-axis cutting machine, more stone graphics and three-dimensional cutting can be achieved to meet the needs of user customization.



#### Optional function: photo taking function

- Equipped with touch screen CNC system and laser marking device
- Automatically measure size by taking photos
- Photo positioning optimizes layout and improves efficiency
- Mark defective areas on photos and layout will automatically avoid them



#### Optional function: suction cup function

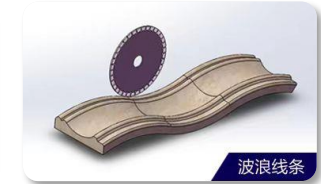
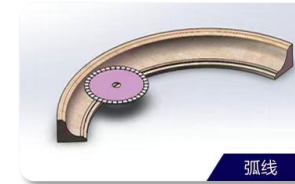
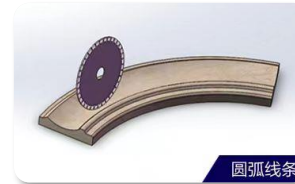
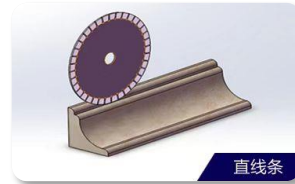


## Parameters

	Name	Unit	DFQ-W350
<b>The Machine Stroke</b>	X axis stroke	mm	3600
	Y axis stroke	mm	2080
	Z axis stroke	mm	500
	A axis stroke	n°	0~90° (Automatic)
	C axis stroke	n°	±365
<b>General Configuration</b>	Move speed	m/min	20
	Spindle power	kw	22
	Spindle speed	rpm	0~5000
	Inverter	kw	22
	Blade diameter	mm	Φ350~700
	Worktable dimension(L*W)	mm	3500*2000
	Rotating degree	n°	0~85
	Total power	kw	≈35
	Total weight	kg	≈5200
	Overall dimensions (L*W*H)	mm	6500*3300*3300
<b>Functional Configuration</b>	Camera function		Optional on demand
	Stone size measuring function		Optional on demand
	Suction slab function		Optional on demand
	Engraving function		Optional on demand
<b>Equipment Advantage</b>	Cast iron beam		580*300*5800

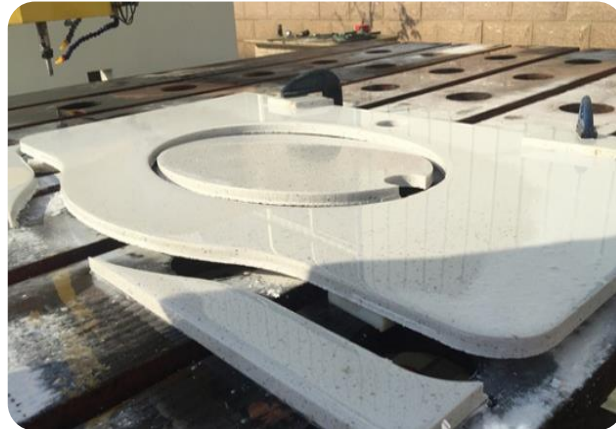
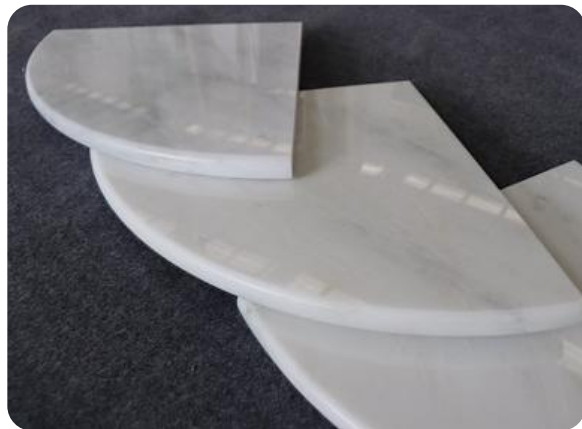
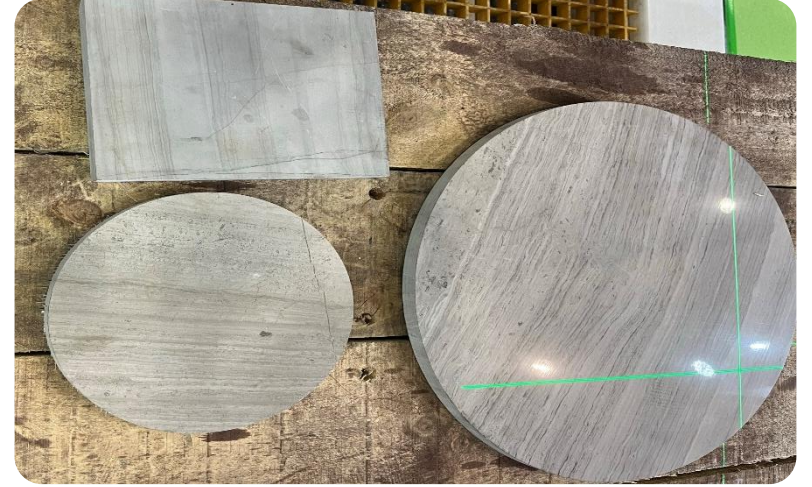


## 5-axis Bridge Cutter Cutting Graphics Effect



任意直线/斜线 Any Straight/Diagonal Line	任意弧线 Any Arc	平行线 Parallel lines	规格板 Cut To Size	菱形网格 Rhombus
矩形 Rectangle	平行四边形 Parallelogram	正多边形 Regular Polygon	梯形 Trapezoid	三角形 Triangle
圆形/椭圆形 Circle/Oval	扇形 Sector	直边圆角 Countertop Cut	马肚边 Countertop Cut	正反倒角 Front And Back Chamfering
灶台面 Countertop	弧线仿 Arc Profiling	圆柱仿 Cylinder Profiling	直线仿 Straight-line Profiling	波浪仿 Wave Profiling

## 5-axis Bridge Cutter Cutting Graphics Effect



# Slab Surface Cutter

## DFQ-B500



### Introduction

This equipment is mainly used for horizontal cutting and leveling the bottom of the board left after large-scale cutting and unloading, so as to achieve the purpose of waste utilization and resource conservation. It is suitable for the processing of various stone materials, including marble, granite, limestone, etc., and can meet the needs of different customers.

### Feature

- **Structural Stability:** The heavy casting structure is adopted, with a stable structure and high intensity, and can withstand a large amount of processing power and weight.
- **High Processing Accuracy:** Adopt advanced transformed into technology and special diamond saw tablets to ensure the quality and accuracy of the processing effect.
- **Simple Operation:** Adopt the PLC programming control system and human-computer interactive operation interface, simple operation, and can quickly get started.
- **Convenient Maintenance:** The modular design is used to maintain convenient maintenance, which can quickly replace parts and components to reduce stop time.



### Parameters

Name	Unit	DFQ-B500
Maximum processing size(L*W*H)	mm	3000*2000*300
Upanddown range	mm	300
Blade diameter	mm	Φ450-500
Total power	kw	35
Main motor power	kw	30
Max. cutting depth	mm	120
Water consumption	m <sup>3</sup> /h	4
Overall dimensions (L*W*H)	mm	3500*5800*2800
Weight	kg	6100



Before processing:  
uneven surface



After processing:  
smooth surface

## Manual Edge Cutting Machine

DFQ-SY600

### Introduction

This equipment adopts coupling structure, the host head can be rotated 180° and chamfered 45°, electric lifting, trolley hand-driven (optional electric control), the overall structure is compact, stable performance, high processing precision, suitable for small boards, strip boards, thick boards trimming and chamfering.



### Parameters

Name	Unit	DFQ-SY600
Maximum blade diameter	mm	Φ600
Upanddown range	mm	350
Worktable dimension(L*W)	mm	3000*750
Maximum processing size(L*W)	mm	2700*1100/1200
Water consumption	m <sup>3</sup> /h	1.8
Main motor power	kw	15/18.5
Total power	kw	16/20
Weight	kg	2800
Overall dimensions (L*W*H)	mm	5500*2200*2250

## Tile Cutting Machine

DFQ-C800/1000/1200

### Feature

- **Powerful:** Adopting 2300W high power full copper core big motor, strong power, long time continuous work.
- **High Precision:** Adopting laser infrared cutting technology, laser alignment is effective to see the error when cutting.
- **Portable Chamfering Design:** 0~45° multi-angle cutting, chamfering fast switching.
- **Lightweight Design:** The body is made of aluminium alloy material is lightweight and can be easily pulled even by one person.
- **Automatic Recirculating Water Refill:** With auto-circulating water refill function and dust-free cutting.
- **Easy Handling:** No need to manually measure and scribe, accurate and zero error.

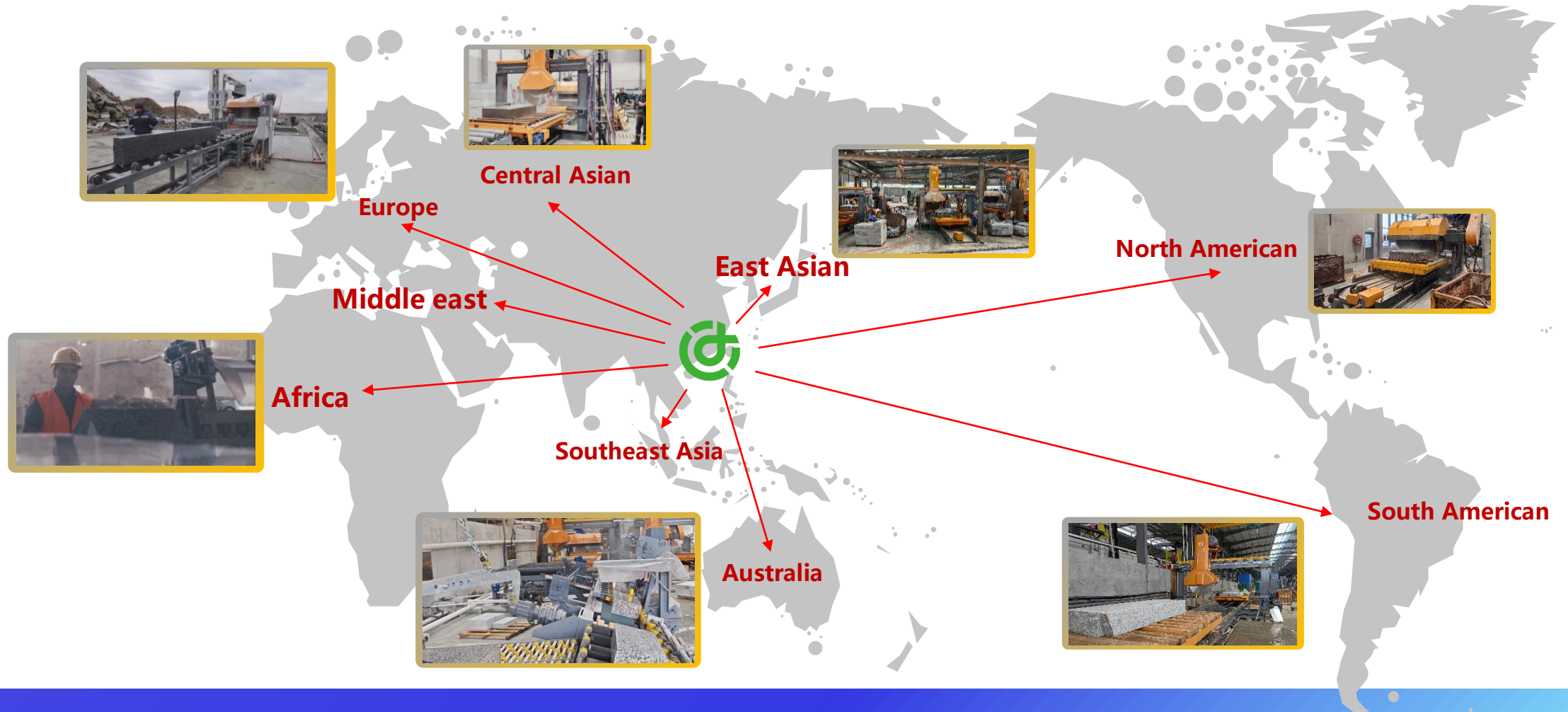


### Parameters

Name	Unit	DFQ-C800	DFQ-C1000	DFQ-C1200
Cutting length	mm	800	1000	1200
Blade diameter	mm	Φ130	Φ130	Φ130
Grinding wheel diameter	mm	Φ120	Φ120	Φ120
Depth of cut	mm	30	30	30
Rated speed	r/min	7200	7200	7200
Rating	w	2200	2200	2200
Rated voltage	v	220/380	220/380	220/380
Weight	kg	85	90	95

## Leading Stone Machine Manufacturer

Dafon machines have been exported to more than 50 countries and regions worldwide.





Make Stone Processing Easier

***THANKS***



[www.dafontime.com](http://www.dafontime.com)