

TILE POLISHING LINE FOR MARBLE AND GRANITE

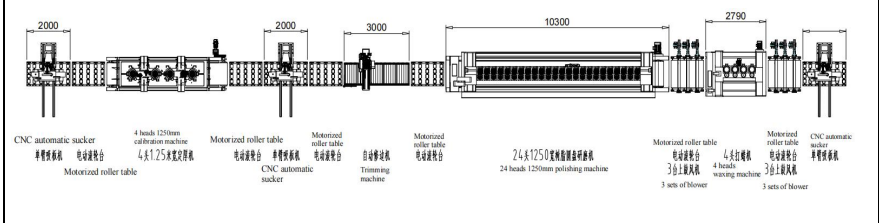
1) Introduction of processing line:

The whole processing line is mainly used for grinding small-sized granite or marble slabs with a thickness of 8mm-20mm and a length of 300-800mm (length/width). This processing line can realize fully automatic grinding, which consists of an CNC automatic suckers, 4 heads calibration machine, an automatic trimming machine, a 24 heads automatic polishing machine, and an automatic waxing machine etc.

The entire production line is fully intelligent, which greatly reduces manual involvement and ensures the quality standards and high efficiency of the finished products.

- 1) 自动吸盘机*1-90degree sucker-90
- 2) 定厚机 calibration
- 3) 自动吸盘机*2-90 degree sucker-90
- 4) 修边机 trimming
- 5) 磨光机 polishing
- 6) 打蜡机 waxing
- 7) 自动吸盘机*1-90 degree sucker-90

2)Production line diagram:



slabs-30*30-40*40--130*380cm

3) Production Line List

NO.	Description of machines	Quantity/set	Unit price/USD	Total amount/USD
1	CNC automatic suckers	2	\$8,500.00	\$17,000.00
2	Motorized roller tables	6	\$850.00	\$5,100.00
3	4 heads calibration machine	1	\$36,000.00	\$36,000.00
4	Automatic edge trimming machine	1	\$6,500.00	\$6,500.00
5	24 heads granite &marble tiles polishing machine	1	\$62,000.00	\$62,000.00
6	Air blowers	3	\$600.00	\$1,800.00
7	4 heads waxing machine	1	\$12,500.00	\$12,500.00
8	Automatic sucker	1	\$7,500.00	\$7,500.00
TOTAL AMOUNT(USD)				\$148,400.00

Machine Details

1.CNC automatic sucker



This machine is mainly used for automatic loading and unloading of slabs. It is controlled by CNC system, which makes the operation more flexible and intelligent. The whole machine is driven by servo motors. Compared with the traditional automatic suckers ,this machine can load and unload the stone slabs placed vertically on the frame onto the roller table.

NO.	Description of machines	Unit	Details
1	Working area	mm	600-1300mm
2	Maximum lifting weight	kg	300
3	Total working powert	KW	5

4	Working length	mm	600-1600
5	Overall dimension (L*W*H)	mm	3000*3000

2.4 Heads calibration machine



This machine is mainly used to calibrate the surface of the stone slabs. During the cutting process of the stone, due to the existence of vibration, there will be height errors on both sides of the stone slab. Large cutting errors will seriously affect the quality of the project. Therefore, the thickness calibrator is a necessary product for high-quality engineering products. This machine is equipped with 4 cast iron discs, and there are multiple diamonds under the discs. The machine rotates at high speed and uses diamonds to flatten the granite surface to achieve the effect of thickness calibration.

No.	Description of details	Unit	Details
1	Number of calibration heads	A	4
2	Overall dimension (L*W*H)	MM	6550*1850*1800
3	Power of main motor	KW	22
4	Power of belt	KW	1.5
5	Total power	KW	92
6	Diameter of calibration heads	MM	880
7	Max.calibration width	MM	800
8	Max.calibration thickness	MM	100
9	Water consumption	M3/H	4
10	Total weight	T	5950

3.Automatic edge trimming machine

Machine Introduction:

This machine is typically positioned in front of the polishing machine to cut and trim the irregular edges of stone slabs. It features PLC control, allowing for adjustable cutting speeds and fully automatic operation, making it easy to use.

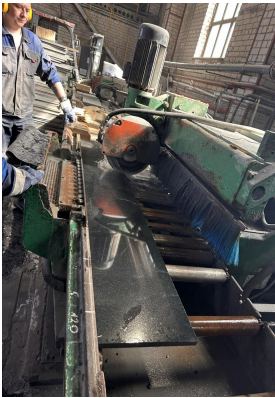
PLC Control: Advanced PLC control system for precise and reliable operation.

Adjustable Cutting Speed: Cutting speed can be easily adjusted to suit different stone materials.

Fully Automatic Operation: Designed for full automation, ensuring efficient and effortless cutting and trimming.

User-Friendly: Easy to operate, reducing the need for extensive training.

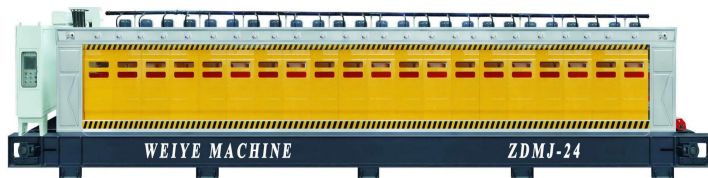
This edge cutting and trimming machine enhances the overall efficiency and quality of stone processing by ensuring slabs have clean, precise edges before polishing.



NO.	Description of machine	Unit	EDT-800
1	Max.blade diameter	mm	Φ400
3	Power of main motor	kw	15
4	Maximum cutting thickness	mm	5
5	Maximum cutting width	mm	800
9	Total power	kw	15.75
10	Dimension(L×W×H)	mm	2000*2000*1600
11	Weight(without foudnations)	kg	2000

4.24 heads granite &marble tiles polishing machine

1. Equipped with highly flexible disk polishing heads, this machine offers lower polishing costs and reduced power consumption while maintaining high polishing efficiency.
2. Using our independently developed PLC system, it automatically detects slab sizes and shapes to create the optimal polishing plan for any slab, whether regular, irregular, or with broken edges. The machine also features an error detection function with one-key reset, simplifying maintenance and improving processing efficiency.
3. Configured with an HDMI display screen and touch controls, all polishing and machine data are shown on the main page for easy monitoring and operation.
4. Featuring an internationally top-class air pressure control system, the machine ensures precise and gentle lowering of the polishing heads, resulting in fine and smooth polishing. The air pressure is adjustable, allowing operators to set it according to the slab conditions.
5. The entire machine is built with high-standard steel, undergoing multiple processes such as cutting, welding, and grinding to ensure quality and durability.
6. Equipped with a fully automatic lubrication system, the machine ensures all transmission parts, bearings, and gears operate smoothly for an extended period.
7. Designed with special structures to minimize electrical interference, the machine ensures reliable performance of all electrical components. It also includes an emergency stop function to prevent damage from sudden power interruptions.



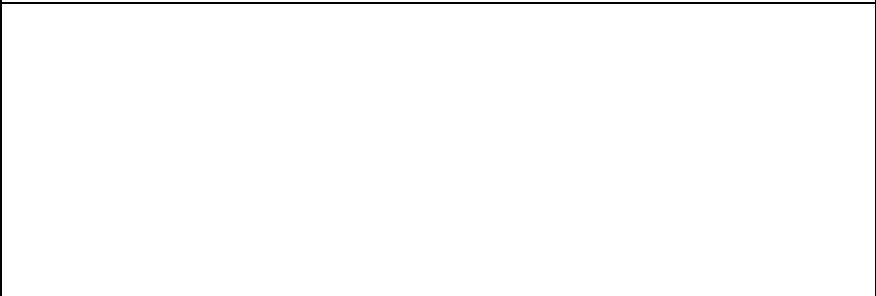
No.	Description of details	Unit	Details
1	Number of polishing heads	A	24
2	Overall dimension (L*W*H)	MM	10300*2300*2300
3	Power of main motor	KW	9
4	Power of belt	KW	2.2
5	Power of cross-beam	KW	4*2
6	Power of blower	KW	1.5
7	Power of brusher	KW	1.5
8	Power of air compressor	KW	9
9	Total power	KW	201
10	Diameter of polishing heads	MM	280
11	Structure of polishing heads	//	disk
12	Max.running speed of beam	M/MIN	40
13	Track of side beam	//	rollar
14	Max.feeding speed of belt	M/MIN	0-4
15	System of emergency stop	//	Electrical & mechanical
16	Rang of polishing width	MM	300-1250
17	Rang of polishing thickness	MM	10-60
18	Water consumption	M3/H	24
19	Total weight	T	21

5. Air blower



No.	Description of details	Unit	Details
1	Motor power	KW	2.2

6. 4 Heads waxing machine



No.	Description of details	Unit	Details
1	Model number	//	DLJ-04/1300
2	Waxing heads	A	4
3	Max.working width	mm	1300
4	Working thickness	mm	10- 60
5	Belt running speed	m	0-4m/min
6	Power of main motor	kw	5.5

7	Power of belt	kw	3
8	Power of cross-bridge	kw	3
9	Total power	kw	36
10	Weight	T	3
11	Overall dimension	mm	2800*2100*1800

7. Automatic sucker



This machine is mainly used for automatic loading and unloading of slabs. It adopts PLC system control, and the operation is more flexible and intelligent. The whole machine is driven by a stepper motor and lifted by a cylinder. The machine can automatically load and unload stone slabs on a horizontal surface onto a roller table.

NO.	Description of machines	Unit	Details
1	Working area	mm	600-1300mm
2	Maximum lifting weight	kg	300
3	Total working powert	KW	5
4	Working length	mm	600-1600
5	Overall dimension (L*W*H)	mm	3000*3000