



Wechat Public Platform



Tiktok official account



Product Operation Manual

TEL: 0512-66830463 / 400-800-3945

WEB: <https://www.jsangu.com>

ADD: No. 333, Zixu Road, Xukou Town, Wuzhong District, Suzhou City, Jiangsu Province, China



METAL POLISHING DEBURRING SOLUTION PROVIDER

Metal polishing and deburring solution provider

Specializing in providing solutions for burrs, weld spots,
milling marks, and oxidation on metal parts surfaces.

GUANGU TECHNOLOGY (SUZHOU) CO., LTD.

CONTENTS

TABLE OF CONTENTS

Company Profile	1
Certificate Of Assets	2
Magnetic Grinding and Polishing Machine Features	3-4
Advantages/Application Range of Magnetic Grinding and Polishing Machine	4-5
Magnetic Grinding and Polishing Machine Parameters	6-10
Magnetic grinding and polishing machine grinding consumables	11
Magnetic Grinding and Polishing Machine Case	12-13
Mirror polishing machine features	14-15
Mirror polishing machine parameters	16-19
Mirror polishing machine grinding consumables	20
Mirror polishing machine case	21

COMPANY PROFILE

Guangu Technology (Suzhou) Co., Ltd. is located in Suzhou, Jiangsu Province, known as the “Water Town of Jiangnan.” Since its establishment, the company has been dedicated to providing solutions for metal surface polishing and deburring. It has independently developed automated equipment such as magnetic grinding and polishing machines, mirror polishing machines, and custom-made production lines, aiming to become a leading provider of metal surface treatment solutions. Addressing the current challenges in metal surface polishing, cleaning, and deburring in China, Guangu has introduced highly efficient fully automatic polishing equipment to replace manual labor, including magnetic polishing machines, magnetic grinding machines, mirror polishing machines, flat brushing machines, and other automated customized production lines, along with related grinding and polishing consumables. All Guangu metal polishing machines undergo precise and rigorous engineering design, strict production management, and quality control systems. Every component, from material selection, manufacturing, assembly, to testing, undergoes rigorous inspection. The core components of the equipment use first-tier brand parts. We welcome visits to our factory for sample testing.

CERTIFICATE OF ASSETS



VISION

Become a respected equipment manufacturer



MISSION

Showcasing the charm of Chinese manufacturing



VALUES

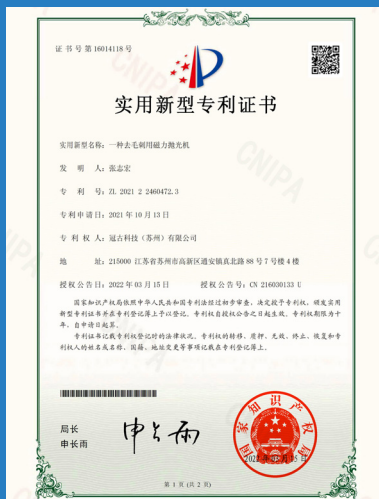
Creating value for customers and happiness for employees



TALENT CONCEPT

The right person in the right position, and the right position for the right person.

MANAGEMENT SYSTEM CERTIFICATION	
This is to certify that THE QUALITY MANAGEMENT SYSTEM of	
Guangou Technology (Suzhou) Co., Ltd	
Organization Code: 91320501MA2BFC48D0	
Registered Address: Building 4, No. 333 Zixu Road, Xiaokou Town, Wuxiong District, Suzhou City	
Business Address: Building 4, No. 333 Zixu Road, Xiaokou Town, Wuxiong District, Suzhou City	
has been assessed by SYIC Certification and found to comply with GB/T19001-2016 / ISO9001:2015 for the scope of activities Assembly and Sales of Automated Mechanical Equipment (Magnetic Polishing Machine)	
Certificate No: 30820900393ROC	
First Registration Date: Mar 03, 2025	
Date of Issue: Mar 03, 2025	
Certificate expiry date: Mar 02, 2028	ISSUED:
The certified organization must be regularly monitored and audited according to the provisions of the certification service contract, and the certificate will continue to be valid after passing the audit. This version is valid not to scan the QR code in the QR code in the certificate is valid or not. The certificate information is also available on the SYIC official website: http://www.syic.com.cn Logo meaning: ISO 9001 Quality management system certification (GB/T 19001-2016/ISO 9001:2015)	



By choosing us, you will gain a partner with excellent qualifications and professional capabilities. We will provide you with high-quality products and outstanding services.

FEATURES

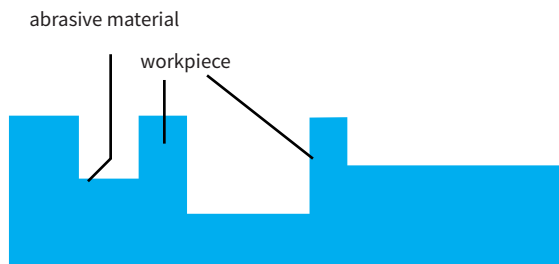
Equipment introduction

Thank you for purchasing the Guangu Magnetic Polishing Machine! The Guangu Magnetic Polishing Machine is a newly developed type of polishing, deburring, and cleaning equipment. The company's equipment uses components from leading domestic and international brands, featuring a simple and user-friendly design that fundamentally addresses the challenges of traditional polishing, cleaning, and deburring processes. It effectively resolves issues such as damage to workpieces, hard-to-reach corners, internal tubes, through holes, blind holes, and other post-processing challenges associated with polishing and grinding, thereby enhancing polishing efficiency and product quality.

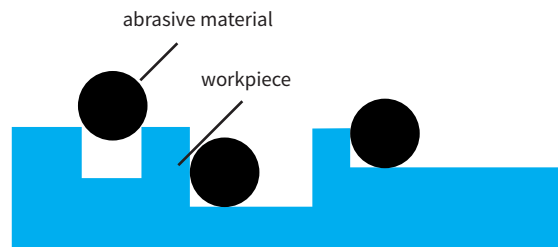
Working principle

The Guangu Magnetic Polishing Machine utilizes powerful electromagnetic force to drive tiny magnetic steel needles, causing the polishing needles to generate high-suspension flow and reverse rolling. The steel needles gently glide over the surface of the workpiece, inside the workpiece's inner holes, and along the inner and outer threads, achieving polishing and cleaning, removing oil stains and impurities, and eliminating burrs and flash. This process achieves precise polishing results without affecting accuracy or damaging the workpiece.

Grinding schematic diagram of magnetic polishing machine and traditional polishing machine



Magnetic polishing machines can grind metal workpieces' holes, gaps, right angles, screw threads, and other fine details at high speeds.



Traditional polishing machines cannot grind holes, gaps, or right angles when grinding metal workpieces.

FEATURES

Equipment introduction

- 01 Achieves multiple functions such as deburring, chamfering, polishing, and cleaning.
- 02 Irregularly shaped parts, holes, tubes, dead corners, and gaps can all be polished and cleaned.
- 03 Low grinding cost, 304 stainless steel magnetic needle, extremely low consumption.
- 04 Fast grinding speed, averaging 5-15 minutes per grind, quick workpiece changeover, and no downtime required to change grinding workpieces.
- 05 Variable frequency adjustment to meet various polishing requirements.
- 06 Polished without dead corners.
- 07 Simple and safe operation, no technical skills required, one person can operate multiple machines.
- 08 Equipment voltage, motor frequency, and operating time are intuitive and easy to operate.
- 09 After grinding, the finished parts remain perfect, with no dead corners, no damage to the surface, and no impact on precision.

EQUIPMENT ADVANTAGES AND APPLICATION

Equipment advantages

Braking function: Utilizes electronic reverse current output electrodes for automatic braking.

Advantages: frictionless, no wear and tear, durable, and energy-efficient.

The equipment features an integrated structural frame.

National standard steel plate housing with seamless construction, ensuring a robust, sturdy, and stable structure. Undergoes five-step high-temperature anti-peeling paint corrosion protection treatment.

Safety Measures: Light-touch activation, control components designed with fully cooled elements, no electrical leakage, ensuring safety.

Rotation: During operation, the turntable experiences no power loss. The 4KW motor operates smoothly at any speed, with no deceleration between no-load and loaded conditions, ensuring sufficient performance. The equipment undergoes 1,000 hours of continuous operation testing, demonstrating stability and energy efficiency.

Scope of application

Suitable for non-magnetic metals: gold, silver, copper, aluminum, zinc, magnesium, stainless steel, and other metal workpieces for grinding and polishing. Examples include gold and silver jewelry, fashion accessories, metal parts for electronic products, precision bolts, complex-shaped metal products, stationery accessories, and instrument accessories.

1- Swiss-Type Lathe、 Fixed Headstock Lathe、 CNC Automatic Lathe workpieces

2- Aerospace, medical device parts

3- Precision springs and spring sheet parts

4- Zinc alloy and aluminum alloy die-cast parts

5- Precision stamped parts

6- Electronic, computer, and communication parts

PRODUCT PARAMETERS



Model:GG8520

Power supply	AC380V(50\60HZ)16A
Equipment size	640*520*1088
Grinding tank size	Φ 350(Round barrel)
Motor power	2.2KW*1
Machine weight	168kg
Operating mode	Forward and reverse
Maximum processing capacity	8-10KG
Auxiliary materials	Stainless steel needle 3kg
	Grinding liquid 25L
	Separator 1PCS
	Steel needle separator 1PCS
	Instruction 1PCS



Model:GG8620

Power supply	AC380V(50\60HZ)16A
Equipment size	740*620*1088
Grinding tank size	Φ 450
Motor power	3.0KW*1
Machine weight	188KG
Operating mode	Forward and reverse
Maximum processing capacity	10-12KG
Auxiliary materials	Stainless steel needle 4kg
	Grinding liquid 25L
	Separator 1PCS
	Steel needle separator 1PCS
	Instruction 1PCS

PRODUCT PARAMETERS



Model:GG8720

Power supply	AC380V(50\60HZ)16A
Equipment size	840*720*1088
Grinding tank size	Φ 500(Round barrel)
Motor power	4.0KW*1
Machine weight	218KG
Operating mode	Forward and reverse
Maximum processing capacity	15-18KG
Auxiliary materials	Stainless steel needle 6kg
	Grinding liquid 50L
	Separator 1PCS
	Steel needle separator 1PCS
	Instruction 1PCS



Model:GG8850

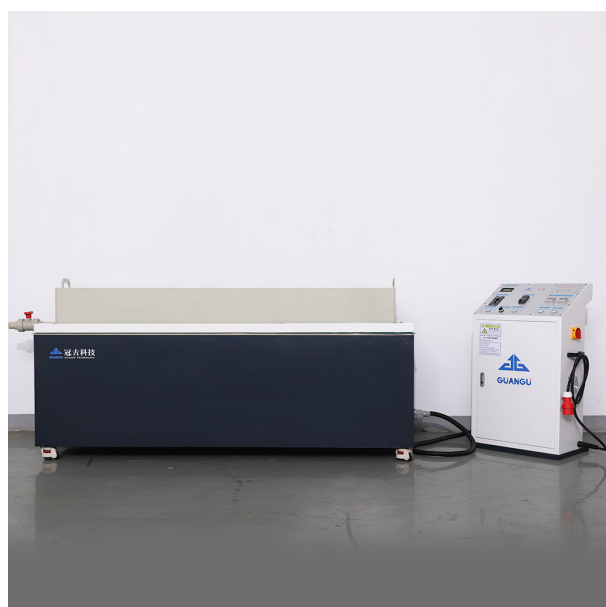
Power supply	AC380V(50\60HZ)16A
Equipment size	1200*720*1088
Grinding tank size	900*500(Square barrel)
Motor power	4.0KW*1
Machine weight	288KG
Operating mode	Forward and reverse and translation
Maximum processing capacity	20-30KG
Auxiliary materials	Stainless steel needle 8kg
	Grinding liquid 50L
	Separator 1PCS
	Steel needle separator 1PCS
	Instruction 1PCS

PRODUCT PARAMETERS



Model:GG1380

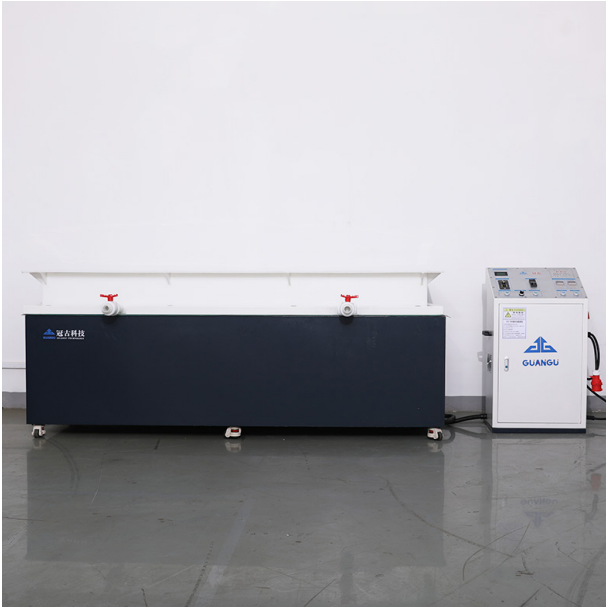
Power supply	AC380V(50\60HZ)16A
Equipment size	1380*800*1088
Grinding tank size	1200*600(Square barrel)
Motor power	5.5KW*1
Machine weight	410KG
Operating mode	Forward and reverse and translation
Maximum processing capacity	0-35KG
Auxiliary materials	Stainless steel needle 10kg
	Grinding liquid 50L
	Separator 1PCS
	Steel needle separator 1PCS
	Instruction 1PCS



Model:GG1980

Power supply	AC380V(50\60HZ)16A
Equipment size	1980*720*1088
Grinding tank size	1800*520(Square barrel)
Motor power	4.0KW*2
Machine weight	580KG
Operating mode	Forward and reverse and translation
Maximum processing capacity	40-60KG
Auxiliary materials	Stainless steel needle 12kg
	Grinding liquid 50L
	Separator 1PCS
	Steel needle separator 1PCS
	Instruction 1PCS

PRODUCT PARAMETERS



Model:GG2380

Power supply	AC380V(50\60HZ)16A
Equipment size	2380*800*1088
Grinding tank size	2200*600(Square barrel)
Motor power	5.5KW*2
Machine weight	660KG
Operating mode	Forward and reverse and translation
Maximum processing capacity	50-70KG
Auxiliary materials	Stainless steel needle 14kg
	Grinding liquid 50L
	Separator 1PCS
	Steel needle separator 1PCS
	Instruction 1PCS



Model:GG2980

Power supply	AC380V(50\60HZ)16A
Equipment size	2980*720*1088
Grinding tank size	2800*520(Square barrel)
Motor power	4.0KW*3
Machine weight	780KG
Operating mode	Forward and reverse and translation
Maximum processing capacity	60-80KG
Auxiliary materials	Stainless steel needle 24kg
	Grinding liquid 150L
	Separator 1PCS
	Steel needle separator 1PCS
	Instruction 1PCS

PRODUCT PARAMETERS



Name	Explosion-proof magnetic polishing machine
Model	GG-FB800
Power supply	380V
Equipment dimensions	Non-standard customization



Name	Reversible Magnetic Polishing Machine
Model	GG-FZ900
Power supply	380V
Equipment dimensions	Non-standard customization



Name	Through-type magnetic polishing machine
Model	GG-AM4000
Power supply	380V
Equipment dimensions	Non-standard customization

***Equipment dimensions can be customized according to actual needs.**

PRODUCT PARAMETERS

Magnetic steel needle regular size table (special can be customized)



Dimensions (Diameter * Length mm)					
0.2*5MM	0.3*5MM	0.4*3MM	0.4*6MM	0.5*5MM	0.5*8MM
0.6*5MM	0.7*7MM	0.6*7MM	0.8*5MM	0.8*8MM	1.0*6MM
1.0*8MM	1.0*10MM	1.2*5MM	1.2*8MM	1.2*10MM	1.5*5MM
1.5*8MM	1.5*10MM	1.8*5MM	1.8*8MM	2.0*5MM	2.0*8MM

*Diameters ranging from 0.2 to 2.0 mm and lengths from 3 to 15 mm can be customized.

Guangu magnetic grinding steel needle selection instructions

The thicker the magnetic steel needles, the stronger the polishing force. Of course, the polishing and grinding force can also be controlled by adjusting the working frequency on the magnetic polishing machine's control panel. When selecting stainless steel needles for the first time, it is essential to have an understanding of the material of the parts to be processed. For harder materials such as stainless steel and iron, it is recommended to choose stainless steel needles with a diameter of $\varnothing 0.8$ or larger. For softer materials like copper and aluminum, it is recommended to choose stainless steel magnetic needles with a diameter of $\varnothing 0.8$ or smaller. Additionally, you can determine the final stainless steel needle model through several actual trials. The diameter of the hole in the part to be processed and other gaps will determine the coarseness of the steel needle abrasive. Generally, it is recommended to use a 5mm-long steel needle for polishing.

Precautions

Stainless steel magnetic needles are semi-permanent abrasive materials that can be used repeatedly. They are tiny needle-shaped objects, so care should be taken when using them. When not in use, stainless steel needles should be cleaned, dried, and stored.

MAGNETIC POLISHING CASE

Copper case



Deoxidize



Crafts



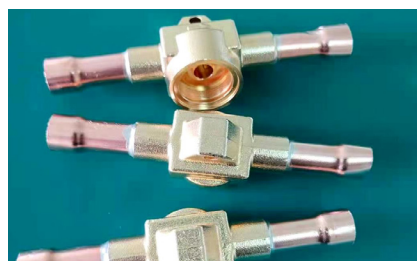
Refrigeration accessories



Telecommunications accessories



Electrical accessories



Welded parts

Stainless steel case



Instrumentation



Electronic products



Laser cutting



Remove solder spots

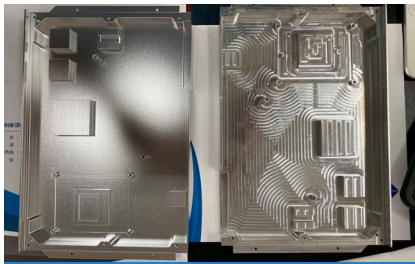


CNC machining



Gear deburring

Aluminum case



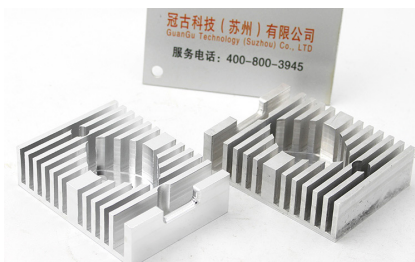
CNC machined parts



Medical accessories



Cut piece



Aluminum radiator



Aluminum die castings



Aluminum forgings

Alloy parts/3D printing/Other cases



High-temperature alloy



Powder metallurgy



Tantalum alloy



3d printing



Carbon steel



Titanium alloy



Silver jewelry



Zinc alloy



Magnesium alloy

FEATURES

Equipment introduction

The Guangu Mirror Polishing Machine adopts a high-speed rotation design, combining horizontal rotation and planetary tumbling in a composite motion. This motion powerfully drives the abrasive medium, causing it to interact with the workpiece surface in a complex three-dimensional grinding process. The result is an ideal mirror finish with high gloss and consistency, making it particularly suitable for high-precision, complex-shaped workpieces.

Working principle

The GuanGu Mirror Polishing Machine places metal workpieces, specially formulated plant-based abrasive particles, and lubricating oil into a high-speed rotating drum. Under the influence of centrifugal force, the workpieces and particles undergo intense, multi-directional collisions, rolling, and friction. The particles perform micro-cutting and shaping on the workpiece surface, while the polishing oil provides lubrication, cooling, and a brightening effect. This automated process efficiently replaces manual polishing, continuously removing microscopic irregularities, ultimately achieving a high-gloss mirror finish on the metal surface.

Equipment introduction

Suitable for surface polishing treatment in fields such as precision hardware, electronic products, aerospace, military accessories, communications and energy, culture and sports, musical instruments, high-end jewelry and accessories, etc.

- | | |
|---|---|
| 1- High-precision bearings, gears, hydraulic | 4- Engine core components, high-end metal trim parts |
| 2- Injection molding/die casting mold cavities, guide pillars | 5- Lens mount, laser reflector, optics |
| 3- Surgical instruments, orthopedic implants, dental prostheses | 6- Wafer carriers, vacuum chambers, precision sensors |

FEATURES

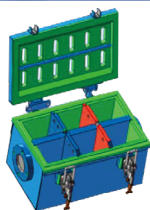
Equipment introduction

- 01 Full surface finishing, planetary compound motion covers 100% of the workpiece surface.
- 02 Eliminate microscopic defects and completely remove submicron scratches, burrs, and oxide layers ($Ra \leq 0.01\mu m$).
- 03 Geometric accuracy preservation, constant pressure floating technology prevents deformation of irregularly shaped parts (tolerance control $\pm 0.001mm$).
- 04 Physical property enhancement treatment, surface densification improves wear resistance/corrosion resistance (3-5 times longer service life).
- 05 Super-reflective coating, optical-grade mirror finish (roughness $\downarrow 98\%$) Optimized light reflectance ($> 95\%$).
- 06 Functional sealing surface, ultra-smooth surface ensures zero leakage of hydraulic/pneumatic components.
- 07 Batch consistency assurance, multi-station synchronous control achieves Ra fluctuation $< 5\%$ for the entire batch.
- 08 Biocompatible surface, medical implants with no residual polishing (compliant with ISO 13485 standard).
- 09 Stress relief treatment, mechanical grinding instead of chemical polishing, eliminates microcracks inside the material.

PRODUCT PARAMETERS



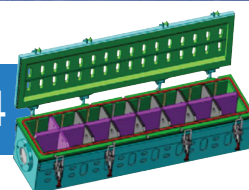
Model:GG9024



Motor	Main Axis 2.2KW
	Secondary Axis 0.75KW
	3 Phase 380V/220V
Capacity	40L Wet & Dry
Mechanical Spec	Public Transfer Revolution:180
	Rotation Revolution:5
Machine Size	1150*1180*1550
Machine Weight	500KG
Barrel Divisions	Square bucket opened, 1 side in total 4 buckets
	4 Grid Groove:180x180x310
	12 Grid Groove:180x180x95
	24 Grid Groove:76x180x95
Optional: Vacuum Cabinet	2.2KW



Model:GG9064

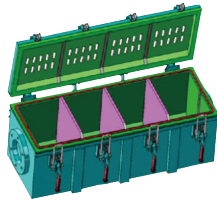


Motor	Main Axis 3.7KW
	Secondary Axis 1.5KW
	3 Phase 380V/220V
Capacity	120L Wet & Dry
Mechanical Spec	Public Transfer Revolution:180
	Rotation Revolution:25
Machine Size	1920*1360*1850
Machine Weight	1200KG
Barrel Divisions	Square bucket opened, 1 side in total 4 buckets, 4 sides
	4 Grid Groove:200x200x960
	32 Grid Groove:200x200x110
	64 Grid Groove:90x200x110
Optional: Vacuum Cabinet	2.2KW

PRODUCT PARAMETERS



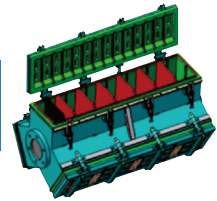
Model:GG9032



Motor	Main Axis 7.5KW
	Secondary Axis 2.2KW
	3 Phase 380V/220V
Capacity	400L Wet & Dry
Mechanical Spec	Public Transfer Revolution:150
	Rotation Revolution:25
Machine Size	2350*1960*2250
Machine Weight	2900KG
Barrel Divisions	Square bucket opened, 1 side in total 4 buckets
	4 Grid Groove:300x300x900
	16 Grid Groove:300x300x215
	32 Grid Groove:140x300x215
Optional: Vacuum Cabinet	2.2KW



Model:GG9168

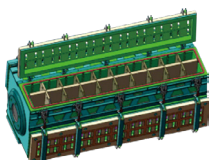


Motor	Main Axis 7.5KW
	Secondary Axis 2.2KW
	3 Phase 380V/220V
Capacity	400L Wet & Dry
Mechanical Spec	Public Transfer Revolution:150
	Rotation Revolution:25
Machine Size	2350*1960*2250
Machine Weight	2900KG
Barrel Divisions	Three-port keg opened, 3 side in total 4 buckets,12 sides
	12 Grid Groove:200x200x900
	84 Grid Groove:200x200x120
	168 Grid Groove:85x200x120
Optional: Vacuum Cabinet	4KW

PRODUCT PARAMETERS



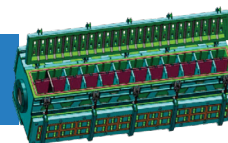
Model:GG9320



Motor	Main Axis 15KW
	Secondary Axis 3.7KW
	3 Phase 380V/220V
Capacity	600L Wet & Dry
Mechanical Spec	Public Transfer Revolution:150
	Rotation Revolution:25
Machine Size	2600*2150*2320
Machine Weight	420KG
Barrel Divisions	Square bucket opened, 4 side in total 4 buckets, 16 sides
	16 Grid Groove:180x180x1096
	160 Grid Groove:180x180x100
	320 Grid Groove:80x180x100
Optional: Vacuum Cabinet	4KW



Model:GG9384

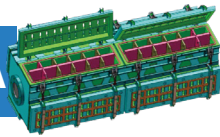


Motor	Main Axis 15KW
	Secondary Axis 3.7KW
	3 Phase 380V/220V
Capacity	800L Wet & Dry
Mechanical Spec	Public Transfer Revolution:150
	Rotation Revolution:25
Machine Size	2830*2150*2320
Machine Weight	4400KG
Barrel Divisions	Square bucket opened, 4 side in total 4 buckets, 16 sides
	16 Grid Groove:180x180x1320
	192 Grid Groove:180x180x100
	384 Grid Groove:80x180x100
Optional: Vacuum Cabinet	4KW

PRODUCT PARAMETERS



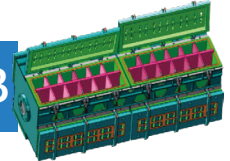
Model:GG9384A



Motor	Main Axis 15KW
	Secondary Axis 3.7KW
	3 Phase 380V/220V
Capacity	800L Wet & Dry
Mechanical Spec	Public Transfer Revolution:150
	Rotation Revolution:25
Machine Size	2900*2150*2320
Machine Weight	4400KG
Barrel Divisions	Square bucket opened, 4 side in total 8 buckets, 32 sides
	32 Grid Groove:180x180x650
	192 Grid Groove:180x1800x100
	384 Grid Groove:80x180x100
Optional: Vacuum Cabinet	4KW



Model:GG9384B



Motor	Main Axis 30KW
	Secondary Axis 3.7KW
	3 Phase 380V/220V
Capacity	1200L Wet & Dry
Mechanical Spec	Public Transfer Revolution:150
	Rotation Revolution:25
Machine Size	3050*2600*2700
Machine Weight	6400KG
Barrel Divisions	Square bucket opened, 4 side in total 4 buckets, 16 sides
	32 Grid Groove:250x260x650
	192 Grid Groove:250x260x100
	384 Grid Groove:80x260x100
Optional: Vacuum Cabinet	4KW

PRODUCT PARAMETERS

Mirror polishing machine abrasive conventional size



Olive shells
1-14#



Walnut shell
8-46#



Corn cob
5-36#

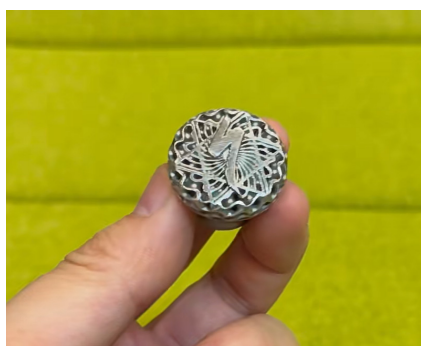
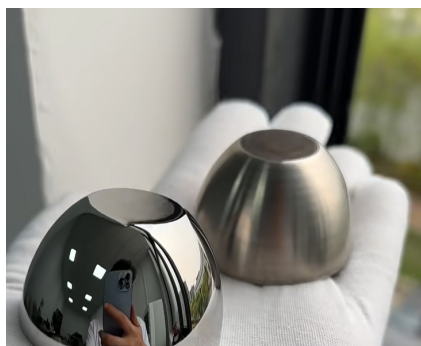
Mirror polishing machine abrasive selection instructions

The selection of mirror polishing methods should be based on a comprehensive assessment of the material properties of the workpiece, process objectives, and industry standards. Olive shell abrasives are suitable for non-ferrous metal decorative parts (aluminum alloys and copper alloys) and pre-treatment of electroplating substrates. Walnut shell abrasives are suitable for biomedical implants (titanium alloys such as Ti6Al4V) and additive manufacturing parts. Corn cob abrasives are suitable for polymer substrates (epoxy resin/ABS molds) and brittle materials.

Precautions

The moisture content of olive shells/walnut shells/corn cobs is controlled to $\leq 5\%/5\%/12\%$, respectively. Medical-grade walnut shells must undergo silicone oil passivation. Components made of different materials must not be mixed during polishing. Abrasives must be replaced after cumulative use of 70/50/40 hours. The polishing chamber for medical components must achieve ISO 14644-1 Class 7 cleanliness.

MIRROR POLISHING CASE



PRODUCT PARAMETERS

Wheel Hub Grinding Machine



Model	GG9710
Dimensions	1400*1000*2000
Weight	300KG
Voltage	380V 3PH 50/60Hz 16A

Wheel Hub Polishing Machine



Model	GG9720
Dimensions	2000*1250*1750
Weight	400KG
Voltage	380V 3PH 50/60Hz 16A

Wheel Hub Polishing Machine



Model	GG9730
Dimensions	2050*1350*1700
Weight	900KG
Voltage	380V 3PH 50/60Hz 16A

Alloy Wheel Polishing Before & After

Refurbishment Effect Display



Alloy Wheel Abrasives

Select abrasives by wheel material & damage.



Brown Fused Alumina Ball



Zirconia

Advantages & Applications

Ideal for all wheel repair scenarios – restore like new



Alloy Wheel Repair

Scratch, oxidation & yellowing removal



Refurbishment & Prep

Old wheel brightening + pre-treatment for brushed finish



Damage Correction

Grind & level curb rash and chipped edges



stable performance

High efficiency, simple operation, uniform polishing effect

PRODUCT PARAMETERS

High precision centrifugal disc finishing machine



Features:

- Suitable for both wet and dry grinding
- Ultra-thick wear-resistant PU cylinder/rotary disc
- High-wear-resistant ceramic/tungsten alloy gaskets
- Continuously adjustable speed with timer and forward/reverse functions
- Stable, durable, low-consumption & eco-friendly
- Full material compatibility, damage-free flexible processing

Suitable for all kinds of jewelry, gold and silver ornaments, etc.
One-stop deburring and polishing process.



Model	Capacity	Power	Speed	Dimensions	Voltage
18-liter finishing machine (single drum)	18L	750W	500 RPM	70*90*140	220V
18-liter finishing machine (double barrel)	18L*2	750W*2	500 RPM	120*90*140	220V
36-liter finishing machine (single drum)	36L	1.5KW	400 RPM	95*90*145	380V
50-liter finishing machine (single drum)	50L	2.2KW	380RPM	1450*2000*2350	380V