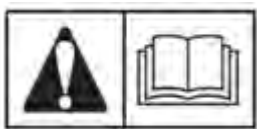


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# BOMAX GM-27 POLISHING MACHINE



For the safety of yourself and others, please carefully read and fully understand the manual before the use of the machine, esp. SAFETY page

## SAFETY

**Do not use this machine for other purpose besides polishing, this might will damage machine and cause operator injure. we hereby claim the caused by machine damage is not within quality warranty .**

**Misconduct** (included but not limited )

Wrongly operate machine without observing manual , esp. fail to observe safety page

Use this machine for wrong purpose

Use this machine on untreated floor, eg. removing objects that are protruding above the surface

## GENERAL SAFETY GUIDELINES

**Failure to follow instructions in this manual may lead to serious injury or even death! This equipment is to be used by qualified and trained personnel only. This equipment should not be operated by persons under 18 years of age.**

**Do not modify the machine. Doing so may cause improper operation and may not be safe.**

- Always use proper heavy lifting techniques when moving equipment.
- Always make sure that machine is kept in proper operating condition.
- Never operate this equipment without proper protective clothing including footwear.
- Always keep rotating parts clean when operating.
- Never leave machine unattended while running.

## SAFETY PRECAUTIONS

- The surface to be treated must be swept clean to remove stones, screw etc.
- Never use the machine when the surface is not clear and if there is a risk of tripping
- Make sure there is no a large of water or oil pollution on the surface to be treated.
- Remove any trailing electrical cables and or duct hoes from the surface to be treated.
- Ensure that work power stable, all power supply must be approved by leakage protection device
- Do not get disturbed during the activities.

## SAFETY REGULATIONS



- Persons who are not operating the machine must not be permitted to stay in the surrounding area of the machine
- Always use cables that are approved and safety earthed. Make sure that the machine is equipped with an earthed connection, do not change this and always use earthed cables with earthed plug. main power supply must with earth and short circuit protector
- Inspect and test the electrical components regularly. The electrical components have to satisfy the requirements that apply to these components.
- If any electric part have problem, get skilled electrical's help as well as in accordance with the electrical engineering regulations.
- Switch off power before maintenance.
- Do not use on slippy surface , do not operate machine in rain.
- Be aware of safety work practice cos this machine contain rotating parts.

- Pay attention electric wire, no damage and always stay out of grinding area
- Make sure the machine is clean and the handgrips are dry and free of grease and oil.
- Ensure dust seal in good state, which can reduce overflow dust .
- Switch off power before change blades.
- Use fork or equipped lift bar when moving this machine
- Lifting machine must use machine protection frame as a hook

## Motor and frequency converter safety instructions

The output speed is range from 0-1800 rpm by motor control. Tips for motor control operation:

- this machine can match 2 type motor voltage:220v or 380v, domestic machine is designed match with 380v, consult us if you need 220v.
- The motor control frequency converters' date are set already, do not change in random. Use reset button if have problem.
- Clean motor and frequency converter by compressed air or dry brush, no water allowed .
- Always keep plug(on frequency converter) in good state ,consult manufacturer if need replace a new one

label	Meaning
	<b>Warning!</b> No water blast gun allowed for cleaning
	<b>Warning!</b> As label content show



Meaning of these symbols are !

- Danger High Voltage
- Watch wire on the ground
- Ear protection is obligatory
- Safety glasses with lateral protection are obligatory
- Make sure that the machine is equipped with an earthed connection
- Use vacuum cleaner or mask
- Safety shoes obligatory
- Consult the manual before operating the machine

### **The do's and don't**

Before using the machine it is important to inspect the machine.

It is not permitted to use the machine if the machine safety is not according the checkpoints below.

**Use national standard 6 square meters cable and no longer than 60 meters**

### **CHECK POINTS OF THE ELECTRICAL SAFETY**

- Use only extension cables for extending the main cable that are sized and marked in accordance with the overall power consumption of the machine.
- Electrical cables must be rolled entirely off the reels
- Any damage to electric cables is not permitted
- Use an electrical power supply connection with earth connection.

### **CHECK POINTS OF MACHINE SAFETY**

Check if:

- The safety functions and operating functions work correct
- The flexible coupling is not deformed or damaged
- The polishing disc is not damaged.
- There are no damages on electrical components.
- There are not any loose nut or bolts
- There is not any damage to the dust hose and if it is connected correctly

## BEFORE OPERATING

### ADJUST THE HANDLE

Pull the bar on the handle, adjust the handle on a comfortable position



### INSTALL POLISHING PAD



1. Press the handle lift the disc up



2. take the clip cap from the base



3. install the polishing pad



4. assembly back the clip cap ensure it is safety locked

**INSTALL ADDITIONAL WEIGHT**

Screw on 2 pieces additional weight

**CONNECT VACCUM CLEANER**

If use vacuum cleaner, connect out pipe to the exhaust.

**POWER CONNECTION**

Put the male plug with power to the machine

**Caution:**

- \* Use national standard at least 4 square meter wire for GM-27 380V, 3 phase machine
- \* Use national standard at least 6 square meter wire for GM-27 220V, 1 phase machine
- \* Max wire length less than 60 meter



For safety and comfortable operation, please put the electrical wire on the wire hook.



## OPERATING

**Main power supply must equip with an earth leakage circuit breaker!**

- Turn on the vacuum cleaner before starting the grinding machine



- Pull up the red emergency stop button, then push the green start button to Starting the machine. See above photo



- Adjust the speed adjustable button to maximum speed(0-1800rpm). See above picture

**Caution: On the panel it will show frequency number. 1HZ = 36RPM**



- If face emergency situation, please press the emergency stop switch

## STOP

Step 1: Adjust the speed to stop and keep machine moving before fully stop.

Step 2: press stop button(red one) .

Step 3: loose buckle then take off plug lightly by holding socket.

## MAINTENANCE

### **scheduled maintenance**

- Work only with original BOMAX service parts.
- Check regular to see if the polishing pad are in good condition. Replace immediately when these are damaged or worn out.
- Prevent premature wear by keep the machine as dust free as possible.
- Clean the machine every day with air and non-aggressive materials.

### **Never use high pressure water to clean the machine!**

- Store the cleaned and dry machine in a dry and humid free room. Protect the electrical motor from moisture, heat, dust and shocks.
- All repair work must to be done by a qualified BOMAX personnel, this is guarantee a safe and reliable machine.

## TRANSPORTATION AND STORAGE

### **Transportation**

- take off plug
- fold the handle, Use proper vehicle for long transportation
- Leave the unattended person far when upload machine.

### **Storage**

- fold the handle if storage space is limited
- Protect machine by dust free fabric and store in dry, clean room



## COMMON TROUBLESHOOTING

trouble	reason
Can't start	1、 Wire is not up to national standard 6 mm <sup>2</sup> 2、 Damaged wire 3、 Start wire line have problem
Stop suddenly	1、 poor floor, try reset button
Frequency convertor error	Try reset button

### Reset button



Sometime machine over load control system will stop the machine automatically. On control panel there is red button(STOP/RESET), long press on this button can reset the machine

**Warning: Never press any other button on the panel, it is the control program setup button. It will cause the machine damage, factory already fix the setup!!!!**

**TECHNICAL DATE****Polishing machine technical date**

Model	GM-27A
Working diameter	27' (685mm)
Motor power (KW/HP)	7.5/10
Voltage (V)	380, 3 phase/220 1 phase
Speed (RPM)	0-1800 speed adjustable
Efficient (m <sup>2</sup> /8 hours)	1000-3000
Electrical wire request	4m <sup>2</sup> wire (at least) / single phase 6 m <sup>2</sup>
Water spray system	Equipped
Water spray power	2W 12DVC
Water tank capacity (L)	10
Additional weight (KG)	2X15
Polishing pad	#1 (same as #400 diamond)
	#2 (same as #1000 diamond)
	#3 (same as #2000 diamond)
Weight (KG)	150

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## WARANTEE

### After-sales service

Authorized agent is required to keep low limit BOMAX parts storage and equipped special tools . only the trained technical can repair this machine.

Only the manufacturer of BOAMX ENGINEERING INC. or authorized agent can provide quality warranty service . customer can refer them by fax, E-mail or in written .

### 1-year warranty (commercial use)

Your new BOMAX GM-27 grinding machine is warranted to the original purchaser for a period of one year from the original date of purchase.

The *SPG* warranty is against defects in design, materials and workmanship.

### Non warranty scope

We feel sorry for the inconveniency caused by problem call. We will accept most problem call as we should, However The following are not covered under the BOMAX warranty:

- Damage caused by abuse, misuse, dropping or other similar damage caused by or as a result of failure to follow assembly, operation or user maintenance instructions.
- Alterations, additions or repairs carried out by persons other than BOMAX or their recognized agents.
- Transportation or shipment costs to and from BOMAX or their recognized agents, for repair or assessment against a warranty claim, on any equipment.
- Materials and/or labor costs to renew repair or replace components due to fair wear and tear.

BOMAX and/or their recognized agents, directors, employees or insurers will not be held liable for consequential or other damages, losses or expenses in connection with or by reason of or the inability to use the equipment for any purpose.

### WARRANTY CLAIMS

All warranty claims should firstly be directed to the local dealer, either by telephone, by fax, by email, or in writing.

Any guarantee on the machine is automatically void when

- Non original BOMAX parts and diamond blade have been used
- Repair work is not done by qualified BOMAX personnel
- Changes, add on or conversions are undertaken with the written permission from BOMAX Engineering Inc.