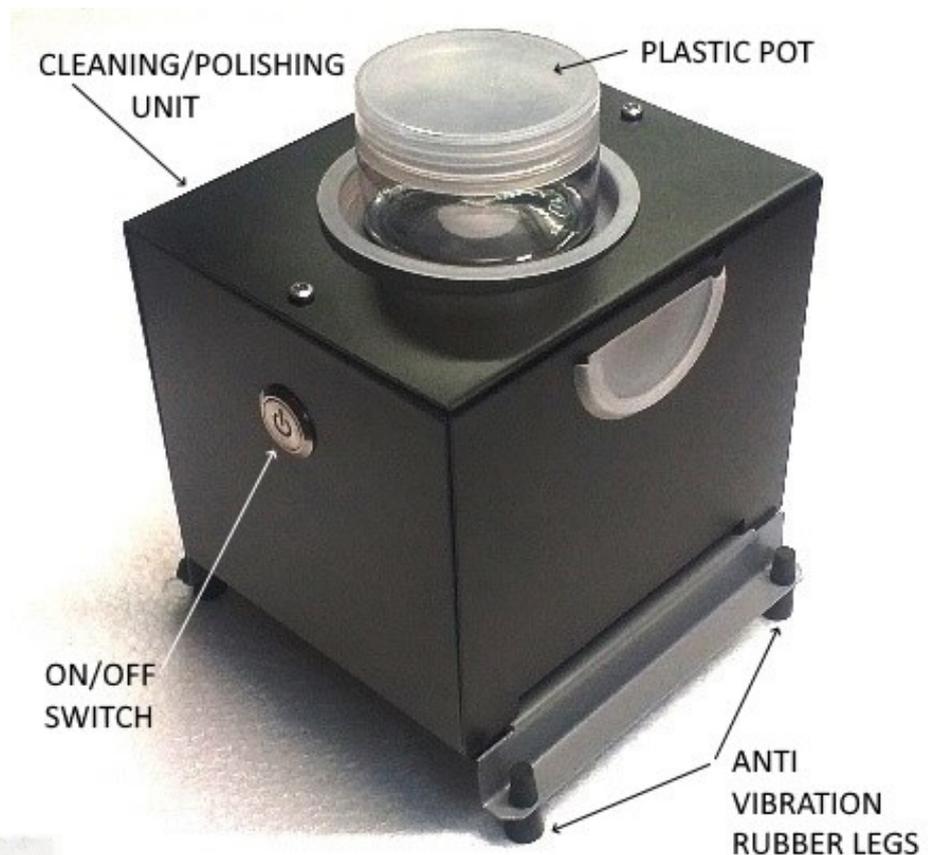


USER MANUAL ON “BAMBLE BEE - 5” ELECTROMAGNETIC CLEANER / POLISHER

PRODUCT INTRODUCTION:

This machine is especially designed for jewellers, restorers, model makers and others for cleaning/polishing non-magnetic objects. This is one of the most popular cleaning/polishing machine in the world because it may work continuously without wasting your time. It will give you an excellent cleaning / polishing result much quicker than any other type of cleaning / polishing equipment. Can be used at home as well as in a workshop because it works clean and with a low level of noise. Super SE-Design.

PIC: 1



PIC: 2



PIC: 3



PIC: 4



TECHNICAL SPECIFICATIONS:

BRAND:	TECHNICAL SUPERMARKET. MADE IN UK.
MODEL:	BUMBLE BEE - 5. WITH UK, EU OR USA ELECTRICAL PLUG
POWER SUPPLY:	100V—240V ON REQUEST
WATT:	29
SPEED (RPM):	2000 UNLOADED
CONTINUOUSLY WORKING TIME:	24 HOURS
MAXIMUM LOADING WEIGHT:	100 GRAM IN TOTAL
PLASTIC POT DIMENSIONS:	55 x 35 mm (2" x 1.2/3")
MACHINE DIMENSIONS in MM/INCH:	165 x 125 x 145 (H) / 6.2/5" x 5" x 4.4/5"(H)
MATERIAL OF BODY:	METAL
GRINDING TOOL:	NON-RUSTED MAGNETIC PINS. PACK OF 30 GRAM
TYPE OF PROCESSES:	WET OR DRY
MAGNETS TYPE:	NEODYMIUM
MAGNETS QUANTITY:	TWO
SUPPLIED WITH:	PLASTIC TUB + 30 GRAM OF 2-5 MM SS304 PINS
ANTI-VIBRATION RUBBER LEGS:	YES. SET OF FOUR
WEIGHT:	1.4 KG

OBJECT SIZE, QUANTITY & PROCESSING TIME:

Proportion of compounds (mediums) and cleaning/polishing items should be correctly found by testing different sizes of objects and mediums. Biggest size of cleaning/polishing object should be less than 1" (25 mm). For example for cleaning ring-size objects of silver, gold, copper, nickel or aluminium try to treat about 1-4 items at a time using 2-5 mm steel pins and 10%-ammonia liquid.

Expecting processing time may vary because it is depending of physical condition of objects. First time check your work every 5 minutes for avoiding damages of your cleaning objects by stainless steel pins that, with time, may transform your cleaning objects into dust. The finishing result can be varied by altering a solution that gives you a more gentler process. For testing use 10% ammonia liquid. If your cleaning objects are very dirty: wash the plastic pot thoroughly and replace the liquids or/and SS pins because items will not be cleaned properly in dirty compounds.

Furthermore, if the extended processing time will be used check the plastic tub/pot for light gases from used liquids because the gases or hot air can open the lid by internal pressure. For this purpose the lid of plastic tub/pot may have small hole that always should be clean.

DELIVERY SPECIFICATION:

The cleaner/polisher “Bumble Bee 4-2019”;
 One plastic tub/pot with lid (PIC: 2);
 Pack of 30-gram of SS pins (PIC: 5);
 This instruction manual (email or download on website);
 Two years manufacturer warranty.

PIC: 5

**ELECTROMAGNETIC CLEANING AND POLISHING - HOW IT WORKS:**

Inside this machine there is a special balanced disc with two large neodymium magnets that are running around the motor axis up to 2000 RPM. There are also stainless steel pins or balls in a plastic tub/pot which moving around under the pot in order to clean and polish all NON-MAGNETIC objects.

APPLICATION:

This machine will clean and polish any NON-MAGNETIC materials such as gold, silver, nickel, copper, rhodium, aluminium, bronze, nickel, others. It is widely used by restorers, craft, jewelers, model makers, in small workshops, garages and by other professionals.

OBJECTS WITH HOLES, THREADS & ASSEMBLIES:

Many items you will cleaning/polishing in this unit may have holes that the cleaning/polishing compounds and mediums may explore through the process. It can be also quiet difficult to remove the compounds and grease from them after. To prevent this it may be a good idea - to insert a rubber plugs into the holes before starting the cleaning process. If the item is threaded, it is possible that the thread may be altered very slightly and if the work has any surfaces that are hidden, for example it is assembled with another item in the pot, when dismantled it is a guarantee that that surface will not be clean or polished. Therefore, try to disassemble as many items as possible before you begin as well as make sure there are not too many items within one pot in order for all surfaces to be processed.

CLEANING & POLISHING:

The items to be processed are rotating in a plastic pot in mixture to give the desired results. A selection of the best compounds may be found by practical tests or on internet and the following notes are intended as an initial guide only. For example we mostly use:

For cleaning (course) purpose – 10% ammonia based liquid with 2-5 mm SS304 pins.

For cleaning (fine) purpose - 10% ammonia based liquid with 2-5 mm SS304 pins.

For polishing (course) purpose – same liquid + some soap with 2-5 mm SS pins continuously.

For polishing (fine) purpose – same liquid with 1-mm SS304 balls continuously.

You can also find and use many other types of chemicals and compounds...

INSTALLATION AND OPERATION:

Installation and operation of this machine does not need deep professional knowledge or specific training:

1. Insert objects to be cleaned or polished into a plastic tub/pot provided and then add a required quantity of metal pins (usually 30 gram), balls or/and liquid/s. Make sure that full weight loaded into this pot is no more than 100 G in total.
2. Place back a lid on this plastic pot and fix it properly. Ensure that small hole on the lid is clear.
3. Switch this machine "On" FIRST.
4. Only after that Insert plastic tub/pot inside its "pocket" (pic: 3) on the top of machine for starting cleaning/ polishing process.
5. That's it. When work done just switch your unit Off.

MAINTENANCE:

This machine's motor is oiled by a manufacturer and can be used immediately. However sometimes it will need additional lubrication after long use. For every three months apply one drop of oil to the motor shaft from the bottom of unit. Use only car engine oil for oiling this motor.

HEALTH AND SAFETY:

NEVER leave any magnetic metal objects on the top of the machine without the plastic tub/pot.

BEFORE turning your unit "On" ALWAYS take up first plastic tub/pot with all cleaning objects. Put it back only when motor starts.

ALWAYS make sure that plastic lid sit properly on the plastic tub/pot.

If you use wet processes, (for example, with ammonia) always check the hole on the lid before start your work.

NEVER open the lid to check your work before motor is fully stopped.

KEEP IT OUT OF REACH OF CHILDREN!

USEFUL TIPS FOR BEGINNERS:

When your work is done, before opening the plastic pot with cleaning objects, switch this machine "Off" first and WAIT few seconds to stop the motor before take this plastic pot out from its hole.

When in work—do not place this machine inside any box. It is essential that air can flow around it as the motor is hot when it works continuously.

Because cleaning/polishing object moving inside the plastic tub this unit still may have light vibration. If happen please screw in the rubber anti-vibration legs in their holes harder.

THANK YOU FOR YOUR PURCHASE

MADE IN UK

WWW.TECHNICALSUPERMARKET.COM WWW.KILNSANDACCESSORIES.COM

WWW.PLATINGANDACCESSORIES.COM