

Operation Manual for the ProVetro Profi-Beveler Ø 60 cm

Introduction

You have purchased a grinding and polishing machine that:

- will allow you all kinds of grinding and polishing activities because of the solid construction.
- has an electronically stabilized turning speed which makes it possible to trim to the correct grinding speed on any position of the disc. A table with revolutions and grinding speed is available in the manual.
- Is ergonomic because of the continuously adjustable height (from 91 to 109 cm)
- Can be connected to the water tap because of the built in water level control
- has a three phase electric motor but can be used on 230 V! A power converter transforms the 230 V to 400 V. This makes it possible to operate almost anywhere.
- has a water recycling system that can easily be changed into a normal water disposal mode
- Is secured by a built in electronic fuse safety device.
- Has an electric motor with built in emergency brake that makes the disc stop almost instantaneously.
- Has an (optional) slide that allows precision grinding jobs



Manual

Read the instructions carefully before putting the machine in use.

This machine may only be used by people that have knowledge of how to operate a grinding machine.

Before operating this machine

- Remove all loose objects from the grinding disc.
 - Always use the correct magnetic polish- or grinding disc.
 - Never grind without the magnetic disc!!
 - Choose between the water recycling mode or the direct disposal mode.
- Always wear your safety glasses.**

Operating the machine

1. Make sure the machine is in a horizontal position and stabilize the machine using the stands (levelling bolts) on the bottom. Turn the stands as much as necessary but keep them as short as possible. Tighten the screw against the chassis to prevent the stands from loosening.
2. Make sure that the machine has the correct working height by operating switch (6)
3. When using the water recycling mode with the automatic water level control, connect filling point (7) to the water tap with a water hose. Open the door and fill the filter housing at first operation or after cleaning the filter housing. Then fill the water reservoir (When using the automatic water level control this will happen automatically). When using the direct disposal of the water, remove the water reservoir and mount the disposal hose to the water collection bin.
4. Mount a grinding disc on the magnetic plate. (For polishing look below the heading '**Polishing**'.)
5. Connect the power plug.
6. Before turning on the machine check if the water handle (1) on the operating panel is in the 0 position. This is especially important when polishing.
7. Press the orange button (3) together with the red button to turn on the machine (3a). The orange button is only used when starting the machine. It controls the zero-current security that prevents the machine from automatically starting up after the power was disconnected during operation.
8. By turning the left/right switch to the left or to the right (3), the table will turn left or right.
9. With switch (5) determine the desired turning speed.
10. Now open the water handle (1) as much as needed to get enough water on the grinding plate.



1. Water handle
2. Emergency stop
3. Start button
4. On/off switch
5. left/right switch
6. turning speed regulator
7. height adjustment

Polishing

- Follow steps 1 to and including 7 of operating the machine. **Important.** During polishing do not use water from the water reservoir, because glass grains or other dust may come with the water that could scratch the object to be polished. Use polishing paste and clean water from the tap that you pour over the disc manually. It is advisable to use the water disposal hose as polishing paste is prevented to enter the filter housing.

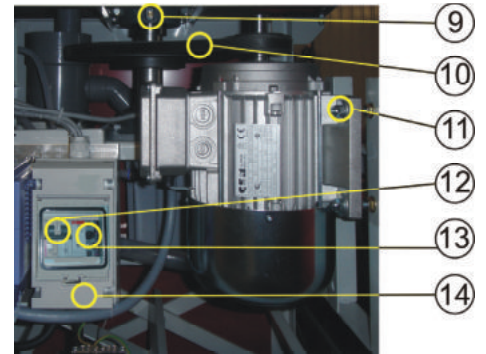
Turning off the machine

- Turn off the machine by pressing the red button (3). Never use the emergency stop to shut off the machine as the frequent use of the emergency brake will cause unnecessary wear off.

Maintenance of the machine

The machine is built with maintenance free materials, however it demands some attention to keep operating trouble free.

- Important! Always remove the grinding paste after use, because it may dry up and get as hard as stone. Removing is then only possible by chopping, what will lead to damage. This damage, caused by too late or wrongly removing the paste, is not covered by the guarantee. If polishing was done in the water recycling mode, removing the paste is done by demounting the filter housing from the machine and clean it with water. When the water was disposed via the disposal hose, clean by rinsing with abundant water.
- The bearings (9) have to be greased every 100 operating hours with a grease gun.
- If the V-belt (10) (the belt between the motor pulley and the axis) get backlash, the motor should be moved a little to the back by adjusting the screws (11). This must be done by a knowledgeable person, to prevent an angle between the motor pulley and the V-belt, as this will lead to extreme wearing of the V-belt.



- 9. grease nipple bearing
- 10. V-belt
- 11. adjusting screw motor
- 12. automatic fuse
- 13. emergency brake fuse
- 14. fuse box

Troubleshooting

What to do in case of failure:

Important, when opening the machine, make sure the power cord is unplugged

- The machine does not start: check if the power plug is connected, and the wall socket has power. Was the orange button pressed when starting the machine?
- If the red button is in the "on" position but does not burn and the water pump is running, the lamp in the red button must be replaced.
- If the red button is burning, but the water pump is not running, the water pump must be replaced by a mechanic.
- If the power is on, the water pump is running but the grinding disc does not rotate, first check whether the left/right switch is not in the 0 position. If the switch is not in the 0 position check the automatic safety fuse in the fuse box (14) in the machine. The switches (12) in the fuse box have to be in the upward position.
- When the machine still does not operate, it is possible that the fuse of the emergency switch (12) is blown. This will only happen on frequent use of the emergency stop that leads to backlash. Replace the fuse (6 x 20, 0,5 ampère).
- If the problem is still not solved, a specialist has to check the machine.

Electrical diagram

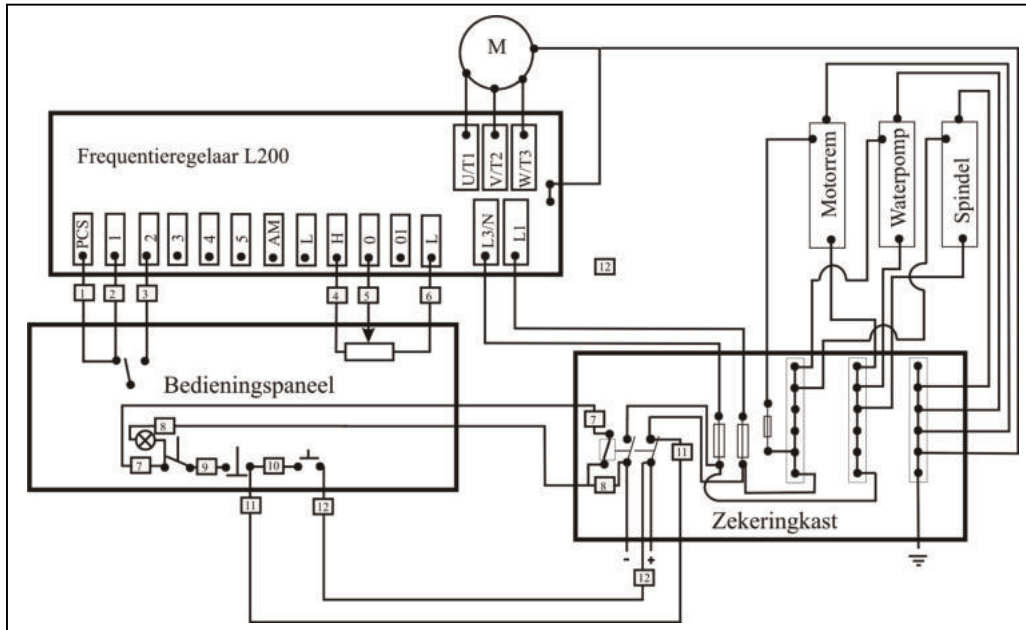


Table with turning speed



A

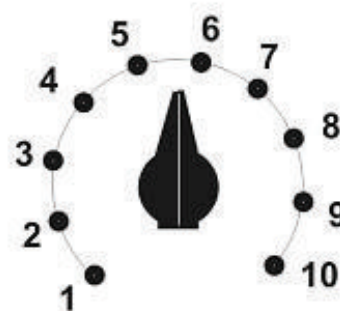


B



C

Schalter	Touren/pro min.	0-10 cm	10-20 cm	20-30 cm
		5 cm	15 cm	25 cm
		A	B	C
1	290	91	273	455
2	340	107	320	534
3	400	126	377	628
4	437	137	412	686
5	495	155	466	777
6	550	173	518	864
7	600	188	565	942
8	655	206	617	1028
9	715	225	674	1123
10	775	243	730	1217



Technical data:

ProVetro grinding machine 60 cm. 3072100

CE mark.

Electronically stabilized turning speed adjustable between 330 and 850 rpm.

Height adjustment of 180 mm (910 to 1090 mm).

Water circulation system with reservoir .

Connection to water tap possible, built in water level control.

Reduced maintenance because of stainless materials.

Both left and right turning.

230V – 1500 Watt.

Dimensions: 785 x 785 x 910/1090 mm.