



## Mobilap Rocker Machine

The rocker is a machine to make a radius in a skate blade. Don't use it for anything else.

Changes at the machine may only take place after a written permission of the owner of the enterprise Mobilap. Requests for changes should be submitted in writing.

Every modification of the machine renders its CE-mark invalid.

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# 1 General safety prescription

Read these instructions carefully!



**When using this machine, basic safety precautions should always be observed, including the following:**

- Use this appliance only to make a radius for long track and short track skates.
- Use only as described in this manual.
- This appliance is designed for indoor use only.
- Place the appliance on a clean flat table.
- Use only manufactures attachments.
- All guards and protections must be in place before using.
- Make sure the motor switch is off and that the plug is out of the socket, when moving the motor from the machine.
- Make sure the motor switch is off before you put the plug in the socket.
- Before maintenance, make sure the motor is still and that the plug is out of the socket.
- When using this appliance, always use personal protective equipment: earplugs, safety goggles and a mask for dust protection.
- Keep away from moving parts.
- Keep all body parts and loose clothing away from the appliance.
- Do not use with damaged parts. Replace the grinding wheel when it has hit something or when the motor fell down. The grinding wheel could be (for the eye invisibly) damaged.
- Do not allow children to use as a toy. Close attention is necessary when used by or near children.
- The work area should be adequately illuminated.
- The appliance should not be submersed in any liquid.



**Before adjusting the skate, the machine, maintenance or any action accept grinding, make sure the motor is still, the motor switch is off and the plug is out of the socket.**

The manufacturer is not liable for damage caused as a result of non-observance of safety instructions and warnings.

## 2

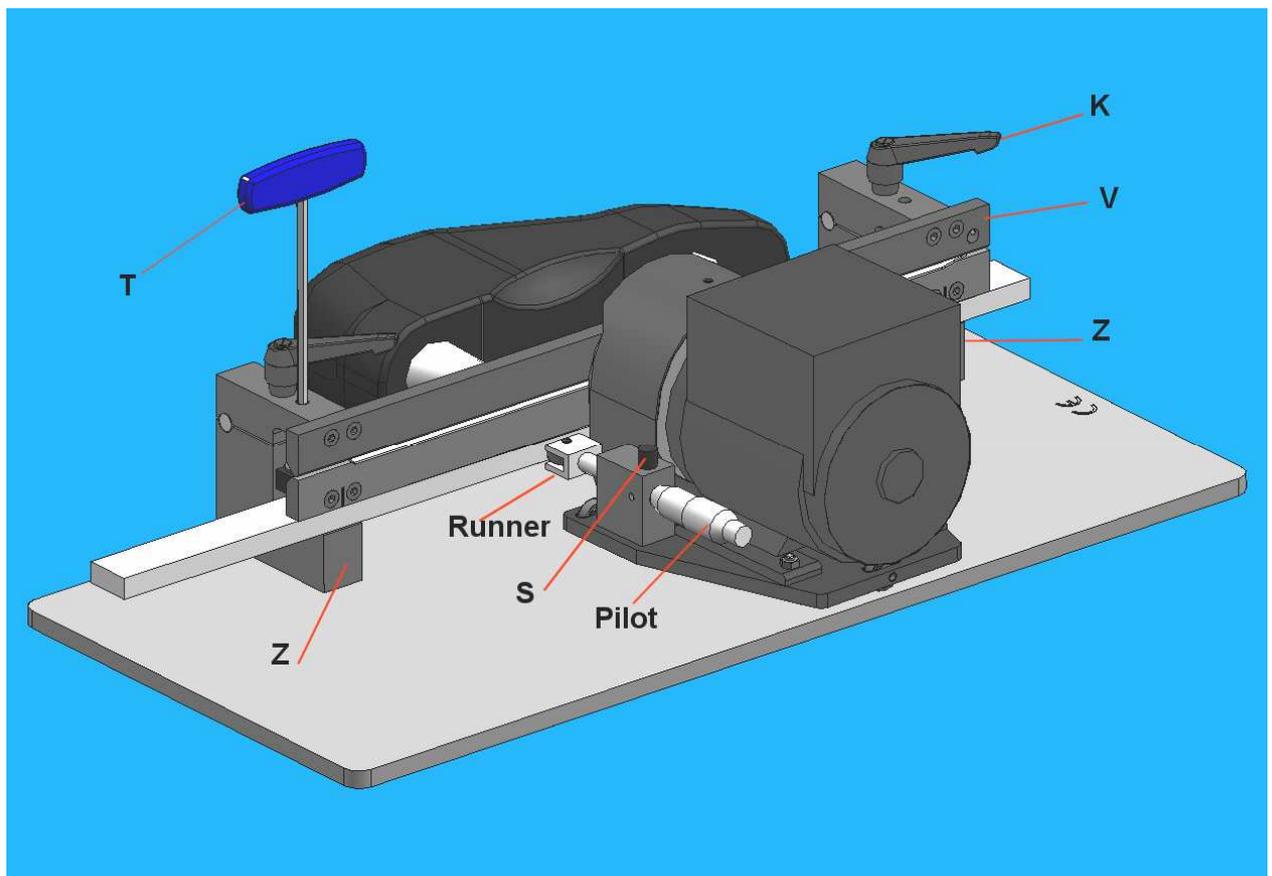
## Preparation



**Make sure the motor is off and that the plug is out of the socket.**

▼ **Do the next things, before you start grinding.**

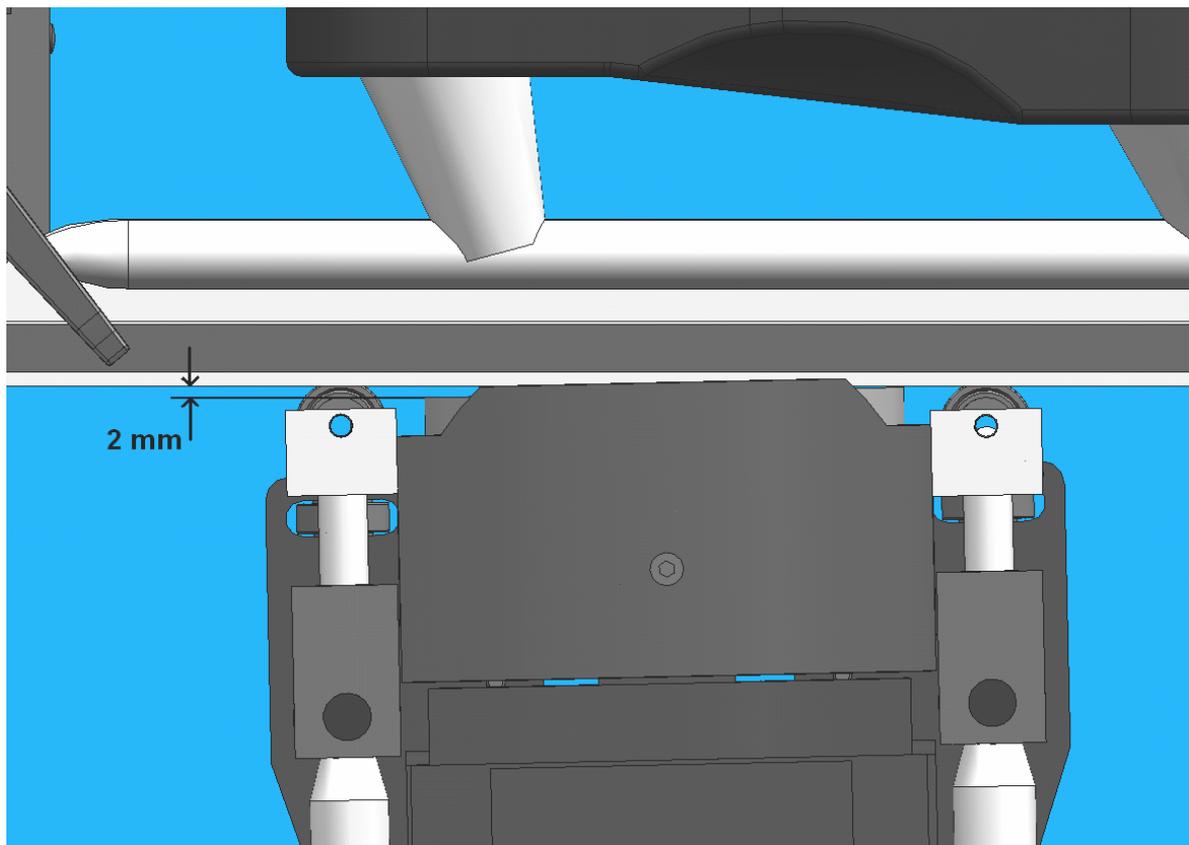
- 1 Avoid temperature differences between appliance and blades.
- 2 Place the base plate, using the slip resistance mat, on a clean flat surface.
- 3 Put the supplied adhesive tape on the clean surfaces of the base plate.
- 4 Place the template in the device and make sure that the front of the template lies on the same level as the front of the support “Z” (on both sides).
- 5 Fasten the template by tightening the bolts at the left- and right side with the screwdriver “T”.
- 6 Positioning of the skate
  - Put the skate with the toe to the right in the machine and be sure that the skate is lengthwise symmetrical to the support “Z”.
  - Make sure that the blade sticks at least 2 mm in front of the clamp “V”.
  - Clamp the template and the skate by tightening the clamp levers “K”



## 7 Pilot-tuning

The grinding wheel should touch the blade during the grinding only at the right "pilot". For this purpose do the next steps:

- Put the motor in the machine.
- Adjust the left "pilot" so that there is 1 to 2 mm space between the blade of the skate and the grinding wheel.
- Adjust the right "pilot" in such way that the grinding wheel just touches the blade. Tighten both screws "S" to prevent that during the grinding the "pilot-adjustment" changes. Not too tight, but in such a way that the "pilot" has no tangible play anymore.
- Turn the right pilot 180 degrees to the right so that the wheel gets loose of the blade.



*Figure: at the left side, 2 mm space between the grinding wheel and the blade*

## 8 Adjustment of the skate

- Turn the left clamp lever "K" loose in such way that the skate can move easily.
- Put the motor with the grinding wheel at the left side, at a distance of about 5 cm from the tip of the skate. Push the skate against the wheel and put the clamp levers "K" tight. Be sure that with the adjustments the "runner" is against the template.
- Do the same at the right side and check the left side after that again.
- Put the clamp levers "K" tight. The machine is now ready for grinding.

9 Tuning of the pilot (7) has to be carried out just once a while. Normally the adjustment of the skate (8) can take place right after placing the skate in the machine.

### 3 Grinding of the blade



Use the earplugs to prevent hearing problems.

▼ **To make a radius in the blade, follow the next steps:**

- 1 Be sure the motor is off.
- 2 Look if the switch of the motor is in the off-position.
- 3 Place the motor at the left side and make sure that the grinding wheel can turn freely.
- 4 Put the plug in the socket and turn the motor on with the switch.
- 5 Take the left “pilot” in your left hand and the right “pilot” in your right hand.
- 6 Push the runner, with little force against the template and move the grinding wheel along the blade, the stone should not touch the blade.
- 7 Adjust the right-pilot a bit by turning it to the left and repeat step “6”. Repeat this procedure until the stone touches the skate.
- 8 Move the grinding wheel at a constant speed, in about 10 seconds, along the blade; avoid acceleration / deceleration.
- 9 Increase the grinding depth by turning the right “pilot” to the left (coarse adjustment) or by turning the left “pilot” to the left (fine adjustment). Because the right “pilot” is closer to the grinding spot, this pilot makes a bigger change in grinding depth when you turn it than the left “pilot”.
- 10 The grinding is ready when the grinding stone has touched the blade along its entire length and hardly any grinding action is noticeable.
- 11 Put the motor off.

**! Pay Attention:** *Be sure that the grinding wheel touches the blade only at the right side. At the left side the distance between the stone and the skate should be about 2 mm.*

- 12 Remove the skate after grinding.
- 13 Unscrew the screws, which clamp the template; use the supplied spanner for this.  
Now the template is free and can't get under tension.

## 4 Maintenance



**Before maintenance, make sure the motor is still and that the plug is out of the socket.**

### ▼ Cleaning

- 1 Clean after every time you have grind a skate with a clean cloth, the grinding dusts of the template, the bearings and the surface of the base plate.  
When during grinding a lot of material should be removed, it is advised to remove the grinding dust of the template, the bearings and the surface of the base plate also during the grinding. Make sure that the motor stands still.
- 2 Clean the clamping surfaces during the changing of the template.
- 3 Get the runner as little as possible out of the “pilot” to prevent contamination of the shaft.
- 4 After about 20 rocker actions, the tape on the base plate should be replaced or sooner when the tape is worn out.

### ▼ Maintenance of the stone

To keep the stone in condition, it should be dressed regularly. Use the diamant dresser for this purpose.



**Use the paper disposable mask and the safety glasses.**

**Get the plug out of the socket, and be sure that the motor stands still.**

- 1 Adjust the diamond dresser in the hole at the right side of the clamping device.
- 2 Let the diamond stick out about 2 mm.
- 3 Put the motor on the base plate.
- 4 Adjust the “pilots” in such way that the stone just touches the diamond dresser when moving the motor from left to right.
- 5 Check if the switch of the motor is in the off-position.
- 6 Be sure that the motor can turn freely.
- 7 Put the plug in the socket.
- 8 Put the motor on and move the grinding stone a few times along the diamond dresser. You can see at the color of the grinding stone if enough material has been removed.



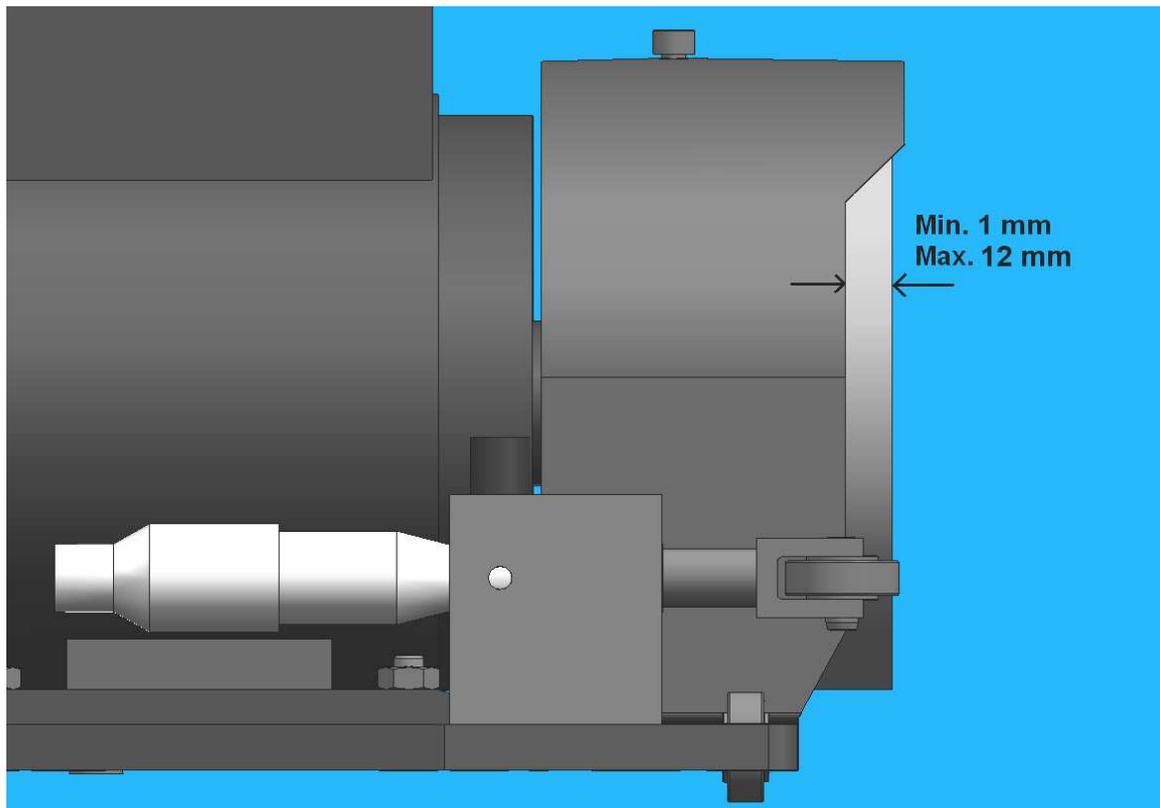
**Make sure that besides the user, there are no other people in the vicinity of the machine.**

## 5 Repositioning of the motor

A new stone has a length of 50 mm and sticks out about 12 mm (at the high of the blade) in front of the protection hood. The stone wears during the grinding and dressing. Because the stone gets smaller the protection hood gets closer to the blade.

To prevent the protection hood from touching the blade the motor should be moved.

**! Pay Attention:** *Move the motor when the grinding stone sticks out about 1mm.*



### ▼ Repositioning of the motor



**Get the switch out of the socket and make sure that the motor stands still.**

- 1 Remove the pilot-holders and protection hood by unscrewing M5-pins at the underside of the motor plate.
- 2 Remove the motor by unscrewing the M5-pins at the underside of the motor plate. Remove the dust of the motor, motor plate and the pilot-holders.
- 3 Move the motor and fix it again with the four M5-pins.
- 4 Install the pilot-holders and protection hood.

**! Pay Attention:** *The stone may stick out maximal 12 mm.*

## **6 Hints for a better performance**

- 1 Place the machine on a flat table.
- 2 Mount the blade with the tip to the right.
- 3 Use the pilot-grips to traverse the motorunit, never press on the topside of the motor.
- 4 Move the motorunit in about 10 sec along the skate,
- 5 Clean the running surfaces of template and baseplate after grinding.
- 6 Dress the stone regularly.
7. If grinding gives a shrieking sound, change the skewness of the grinding wheel, by reducing the distance between the stone and the blade at the "left-runner".