

Pivot polishing - no problem!



Pivot polishing device - ROLLIMAT -

Key features:

- Polishes pivots in seconds
- Highest polish by widia burnishing wheel
- All pivots from 0,30 to 4,00 mm
- Minute-gears from pendulum-, pocket- and wrist watches
- Anchor pivots from pendulum-clocks with long fork
- Plastic pivots
- All round things, like anchor pins, windings stems

Technical data:

Power: 100 Watt

Speed: 300 r/min.

Power supply : 230 Volt \approx 50 HZ

Weight: 5000 g

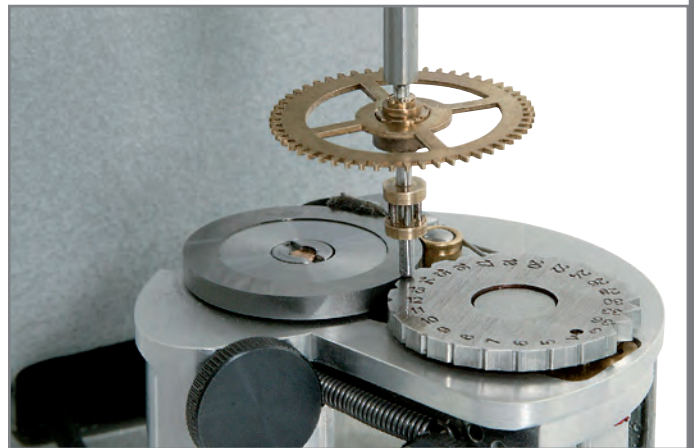
Dimensions (L x W x H): 220 x 100 x 240 mm

Art.-No. 609 551 - with widia polishing wheel 3,5 - 3,6 mm

Art.-No. 609 546 - with widia polishing wheel 4,0 - 4,1 mm

Handling:

Measure out the rough pivot, wedge in the fitting groove, fix the pivot thickness. Hold the work piece with the fingers, turn on the Rollimat for 1 to 2 seconds. The pivot is ready and got by the widia polishing wheel a polish of highest perfection.



befor



after



Operating instructions Rollimat

Measure the rough bung with the side-rule and adjust the bung hook to the correct notch setting. Lift the centering pin and prop up the loop on the motor casing. By pressing the balance lever, adjust the opening between the widia polishing wheel and the bung hook. Then clamp the bung in the notch. The edge screw is turned via contact with the balance lever and, according to the roughness of the bung, is either left as is or loosened 1 to 3 screw notches. After app. 2 seconds, after the rolling wheel has come to a stop, turn off the machine, tighten the edge screw by 3 screw notches so that the rolling wheel is no longer touching the bung, and turn it on for another 2 seconds for a fine polishing job.

Hold the designated piece, wheel, or shaft to be polished with your thumb and middle finger and set the centering pin by guiding it with your index finger in the loop. Turn the motor and let it run for 1 to 2 seconds. The designated piece to be polished should be securely fastened so that it can't turn with the polishing wheel. When polishing **minute wheels with second friction**, secure the shaft with a carriage so that it doesn't rotate. For bungs with a 3,6 mm or larger diameter, the piece can be rolled without using corner pressure for centering. If the motor belt happens to slip with thick, rough bungs, secure the wheel, turn on the motor and left it run a bit before letting the wheel rotate.

Pocket watch and wristwatch minute wheels must be fastened to a shortened pin hook, held between thumb and index finger, and centered with the centering pin.

When rolling soft bungs, set the balance spring on very low tension - for hard bungs, tighten the tension with the regulating button. For thin bungs with a minimum diameter of 0,4 mm, set the regulating button on the lowest tension, position the corner screws so that they are touching the balance, and roll for only 1 second.

Plastic bungs can be rolled normally.

The rolling wheel should not scrape along the hook, otherwise the bung will not turn out smoothly. Keep the rolling wheel comb oiled while rolling to prevent the wheel from slipping. Keep the felt well-oiled. In case the felt becomes littered with polishing shreds, remove the felt, clean it thoroughly, and oil it before replacement. In order to remove the felt, screw the rolling wheel to the middle setting and release the wire spring. Always keep the edge nuts tightly fastened. To prevent soiling, cover the machine with a plastic bag when not in use.

To change the rolling wheel:

Remove oilers, loosen the balance spring by pulling out the regulating knob, unscrew the grooved nuts. Pull up the rolling wheel while simultaneously moving the balance back and forth.

To oil the rolling wheel bearings:

Clean the bronze bearing shaft of the rolling wheel as well as the rolling wheel bore hole with a cloth that has been dipped on gasoline. Coat the bronze shaft including the groove and the rolling wheel bore with thick pendulum oil. The bore holes and teeth of new rolling wheels have been pre-oiled. Place rolling wheel on bronze shaft and screw on the grooved nuts. The oil should fill the air hole at the top of the grooved nut. **Careful: Hard metal cracks easily if bumped with a hard object.**

Important information to the Rollimat:

The new engine is a state kind execution, it switches himself temporarily from case it will be too hot. He is best Quality. Many watchmakers let the motor run too long. The circumference of the widia wheel corresponds the length of a file. Mostly polishing 4x over the pivot is enough for soft steel. The Rollimat does it in 1 second. Hand pivots need polishing longer. If one does not feel a drawing in the wingers any more, the widia wheel does not remove any more. One always feels a gentle drawing even when the widia wheel does not remove any more. You get a fine polishing when you tighten the corner screw 4-6 notches that the widia wheel does not touch the pivot and turn on for app. 2 seconds.

There are hard pivots where the widia wheel does not or almost not seize. In this case we recommend to clamp the shaft in the chucking appliance of the lathe and to grind it first with a fitting Degusit grindstone. In this way one goes easy on the widia wheel and the motor and safes time, too.

After polishing 1 complete watch remove the oiler, scrape off the cuttings on the felt with a knife, then oil the felt plentiful with thin oil. When the belt slides, exchange it, under the bottom is a spare belt. For that, only screw off the 2 front rubber stopper.

In the notch number 4 you polish up to 0,30 mm and in the notch number 3 up to 0,25 mm diameter. You get a fine polishing when you tighten the knurled screw on contact with the compensator and screw down 2-3 teeth if necessary.