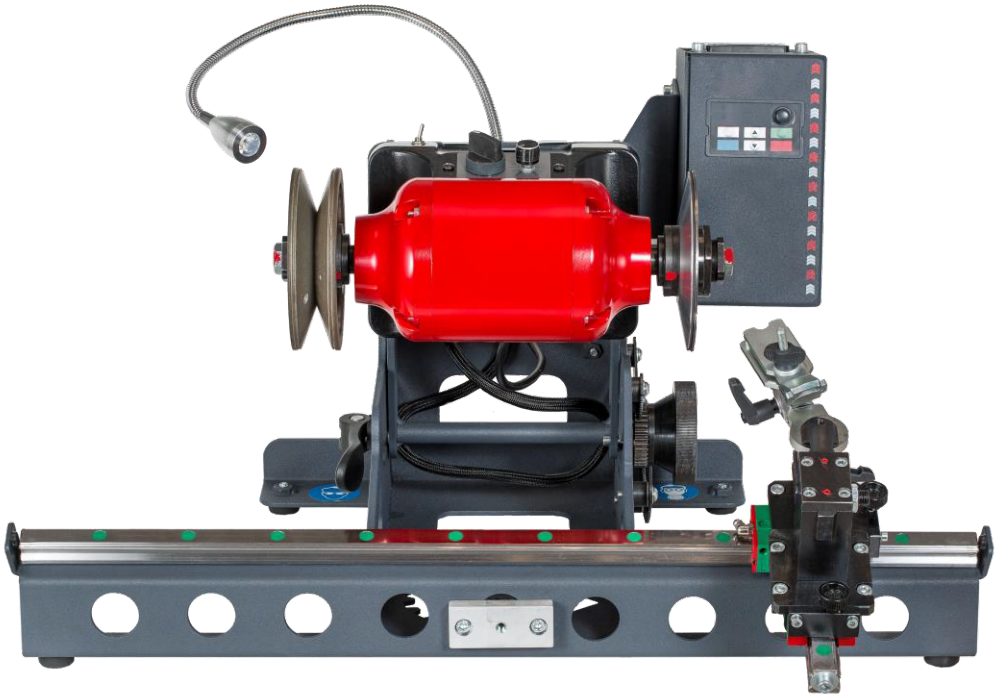
HOUSEHOLD SHARPENING MACHINE
FOR MANICURE, PEDICURE AND MEDICAL TOOLS

ADEMS GMT

USER MANUAL



CONTENTS

1. PURPOSE AND SCOPE OF APPLICATION

The ADEMS GMT household machine is designed for professional sharpening of manicure, pedicure and medical tools

2. SCOPE OF SUPPLY

The ADEMS GMT II scope of delivery includes:

- ADEMS GMT II household sharpening machine – 1 pc.;
- Frequency converter (optional) – 1 pc.;
- Aluminum disc with magnet (installed on the machine) – 1 pc.;
- Diamond grinding wheel 80/63 (installed on the machine) – 1 pc.;
- Upper part of the manipulator – 1 pc.;
- Ball Ø4 – 1 pc.;
- Rubber support – 4 pcs.;
- Set of replaceable metal discs Ø125 mm – 4 pcs.;
- Set of abrasive discs Ø125 mm (P240, P600) – 2 pcs. each;
- Set of abrasive discs Ø125 mm (P320) – 4 pcs.;
- Hex key No. 5 – 1 pc.;
- Keys for abrasive installation – 2 pcs.;
- Screw M6×12 – 4 pcs.;
- ProFix washer – 1 pc.;

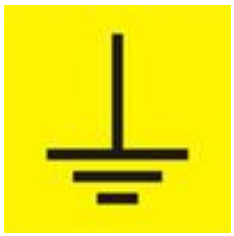
3. TECHNICAL SPECIFICATIONS

Types of sharpened tools	Manicure nippers Pedicure nippers Cuticle scissors Manicure scissors Medical instruments
Sharpening methods:	Rough sharpening Finishing sharpening
Motor supply voltage,V	220
Lighting supply voltage, V	12
Rated motor power consumption,V, max	300
Disc rotation speed without frequency converter, rpm	2850
Disc rotation speed with frequency converter, rpm	996…2850
Outer diameter of diamond and aluminum discs, mm	125
Disc bore diameter, mm	32
Longitudinal carriage travel, mm	550
Transverse carriage travel, mm	128
Overall dimensions (L×W×H) without frequency converter, mm	656x534x323
Overall dimensions (L×W×H) with frequency converter, mm	656x631x370
Net weight without frequency converter, kg	25
Gross weight without frequency converter, kg	28
Net weight with frequency converter, kg	28,6
Gross weight with frequency converter, kg	31,6

4. SAFETY INSTRUCTIONS

ATTENTION

Before starting work, inspect the machine for visible damage to the power cord and moving parts. It is prohibited to operate the machine until any detected defects are eliminated.

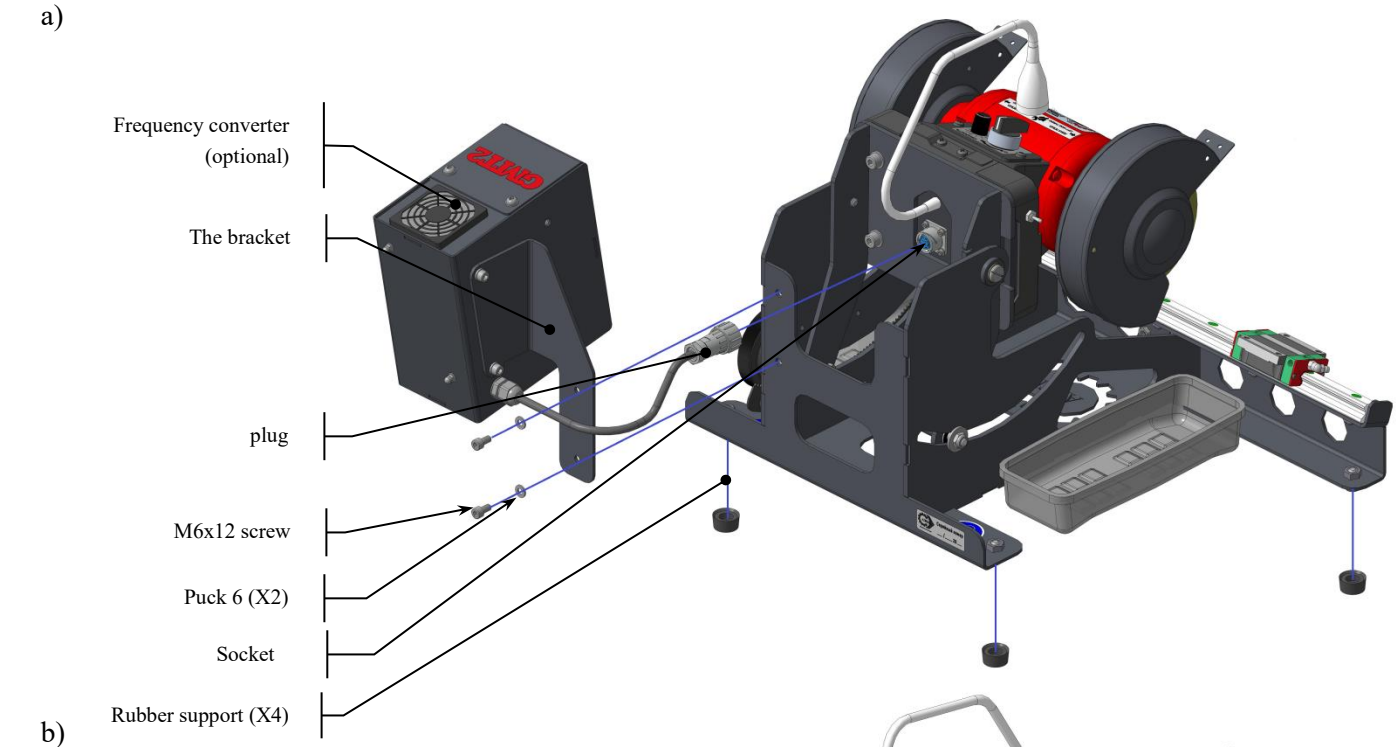


It is recommended to connect the machine only to a grounded power outlet

Wear safety goggles and a respirator mask during operation. Goggles protect only against suspended dust and abrasive particles and do not protect against flying fragments

5. PREPARATION FOR OPERATION

a)



b)

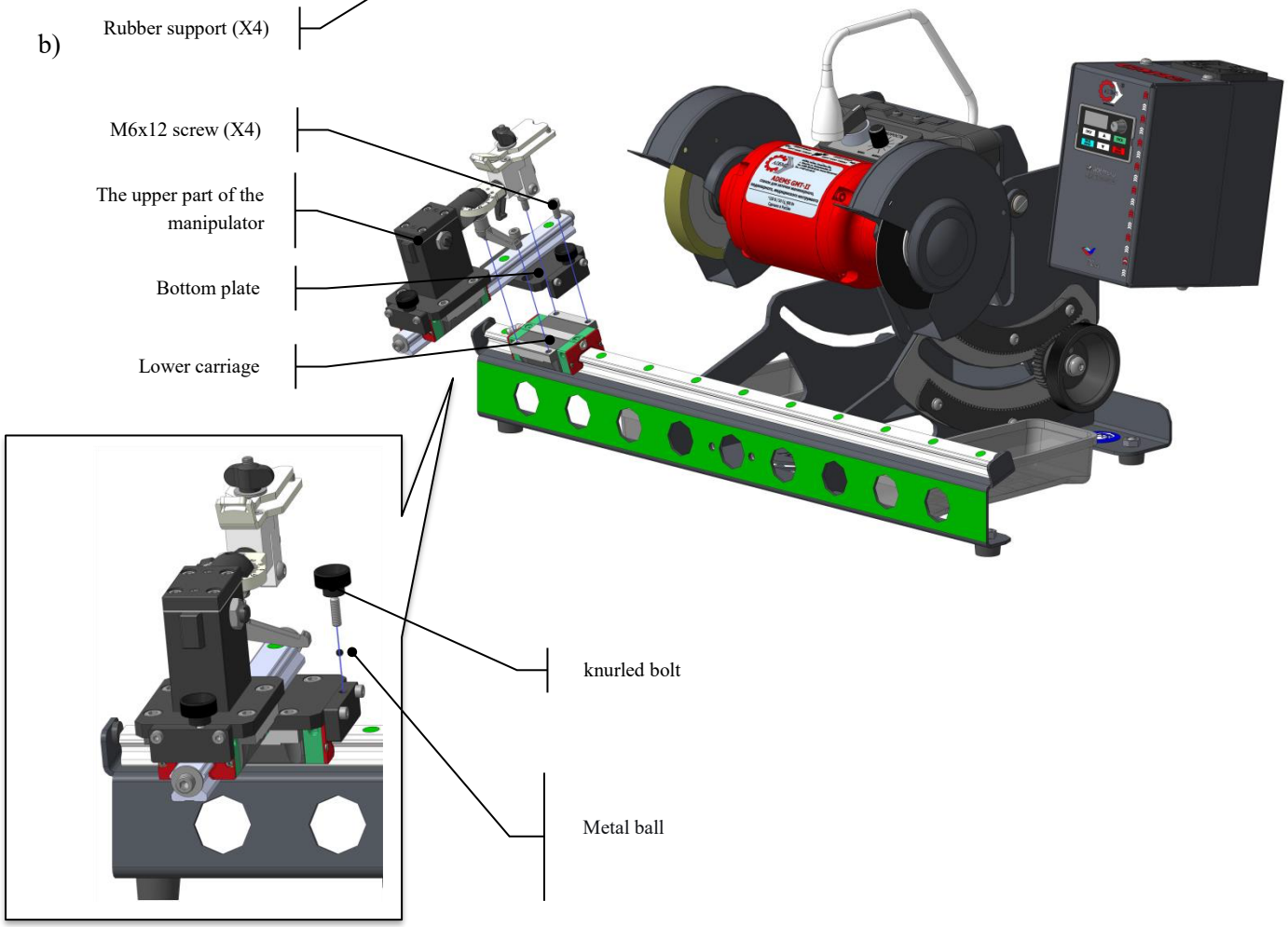


Fig.1 Assembly of the ADEMS GMT machine
a) Rear view; b) Front view

Unpack the machine and place it at a designated workplace near a power source (no more than 0.9 m).

ATTENTION

If the machine is brought into a heated room from cold conditions, do not unpack or switch it on for 8 hours. The machine must reach ambient temperature to prevent damage caused by condensation.

ATTENTION

When connecting the machine to the power supply, ensure that the power cord is not stretched; at least 20% of its length should lie freely on the workbench

ATTENTION

Connect the machine to the power supply only after complete assembly.

ATTENTION

Ensure that the local power supply parameters match those specified on the machine nameplate (220 V, 50 Hz).

ATTENTION

Before connecting to the power supply, ensure that the power cord and plug are undamaged.

Install rubber supports under the machine support screws.

The manipulator was partially disassembled for transportation safety. Install the upper part of the manipulator onto the lower carriage and secure it using M6×12 screws with the supplied hex key.

ATTENTION

Over-tightening the screws may cause play in the carriage. Slightly loosen the screws to eliminate play. If using a power screwdriver, set the torque to level “2”.

Insert the ball into the hole of the side plate limiting carriage travel and secure it with the knurled bolt.

Check smooth movement of all manipulator elements and reliable fixation of locking handles.

If included, install the frequency converter and connect its cable to the socket on the rear of the grinding unit.

ATTENTION

Manipulator fasteners: screws M6x12 (x4), a Ø4 ball, and a knurled bolt are packed in a separate bag.

Check the operation of the manipulator's moving elements. All these mechanisms should move smoothly, without jerks or jamming. Check the operation of the locking elements: the suspension locking handle, the scissor clamp locking handle, the knurled bolts, and the rotation locking handle. They should securely lock the mechanisms they control.

If included, install the frequency converter in its place (Fig. 1b), aligning the mounting holes. Tighten the M6x16 screws using the hex key No.5 from the delivery set.

Insert the plug with the wire from the frequency converter into the socket located on the rear side of the grinder.

ATTENTION

The connection of the frequency converter is described for the ADEMS GMT II machine model with a frequency converter. For the ADEMS GMT II model without a frequency converter, a jumper plug will be installed in the socket, without which the machine will not operate.

ATTENTION

If you purchased the ADEMS GMT II machine model without a frequency converter and later decided to acquire one separately, you can install the frequency converter kit yourself, without any electrician skills, after purchasing it.

Fill the rectangular containers with water and place them under the wheels, or use an exhaust hood.

ATTENTION

The amount of water added to the container should be sufficient for the foam sponge inside to be moist and capable of attracting abrasive and metal dust during tool sharpening.

Before turning on the machine, ensure that the motor power cord does not interfere with any rotating parts. Check the operation of the electrical equipment: the two-position switch, the resistor knob, and the light toggle switch.

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ATTENTION

The resistor knob is inactive until the frequency converter is connected.

Check the operation of the grinder: the abrasive wheel and the aluminum wheel with the magnet must rotate without vibration, extraneous noise, or knocking. The axial runout of the abrasive wheel and the metal wheel must not exceed 0.05 mm. Check the magnetic properties of the aluminum wheel.

ATTENTION

The metal disc must be centered on the rim of the aluminum disc and securely held by the magnet. When removing the metal disc, you must apply sufficient force to detach it from the magnet.

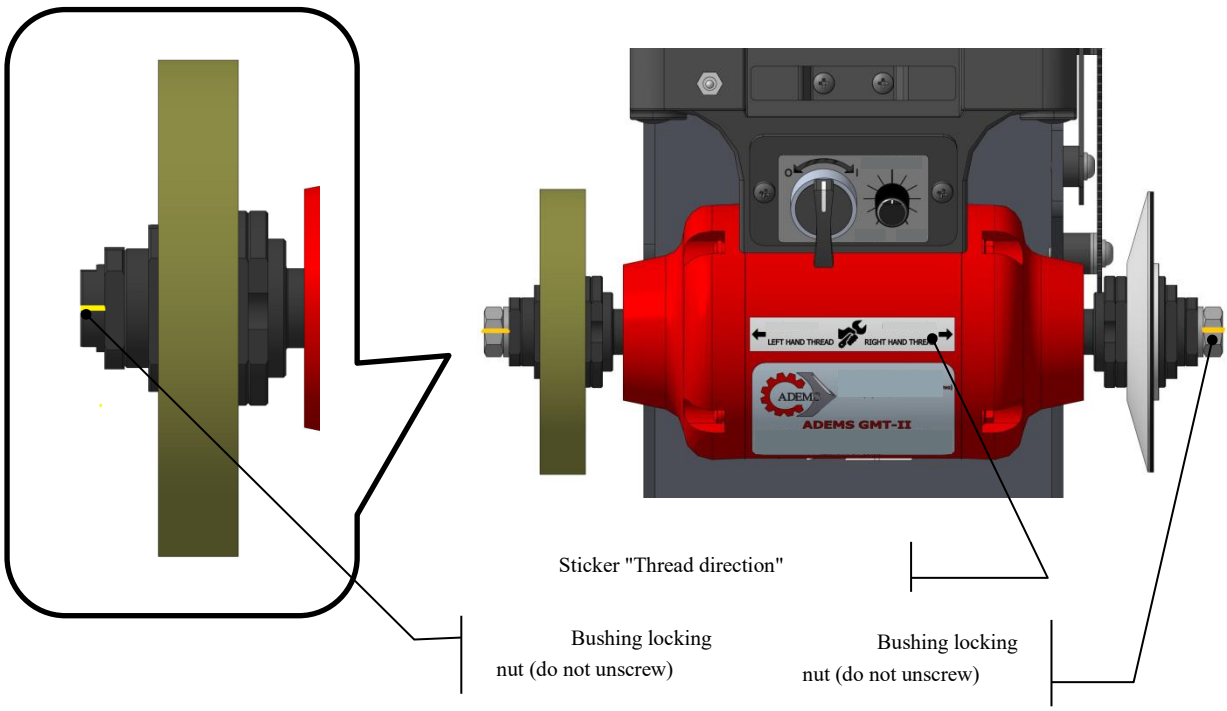


Fig.2 Manufacturer's Requirements

The bushings mounted on the grinder's shaft are ground together with it; therefore, the abrasive wheels in PROfix have minimal runout values. Any misalignment of the bushings relative to the shaft leads to a loss of mounting precision.

ATTENTION

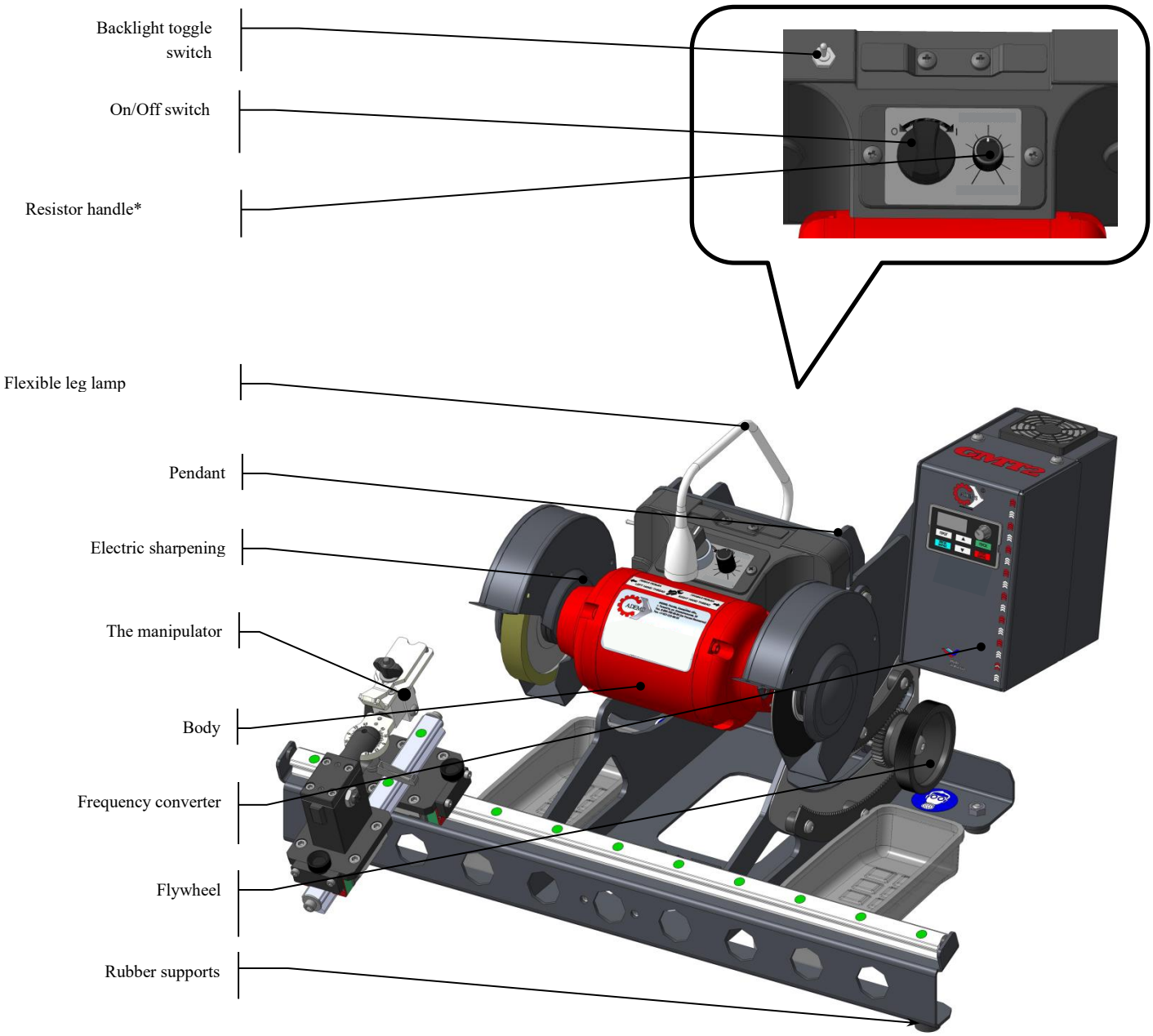
Unscrewing, loosening, or tightening the locking nuts of the bushings at the edges of the grinder (Fig.2) is strictly prohibited, as it leads to a decrease in the precision of the runout of the

installed tool. Violation of the marker marks on the ends of the nuts relative to the bushings results in the machine being voided from warranty coverage. To prevent confusion when choosing the direction for tightening/unscrewing the nuts, pay attention to the "Thread Direction" sticker.

6. DESIGN

The design and operating principle of the machine are described based on Figure 3.

a)



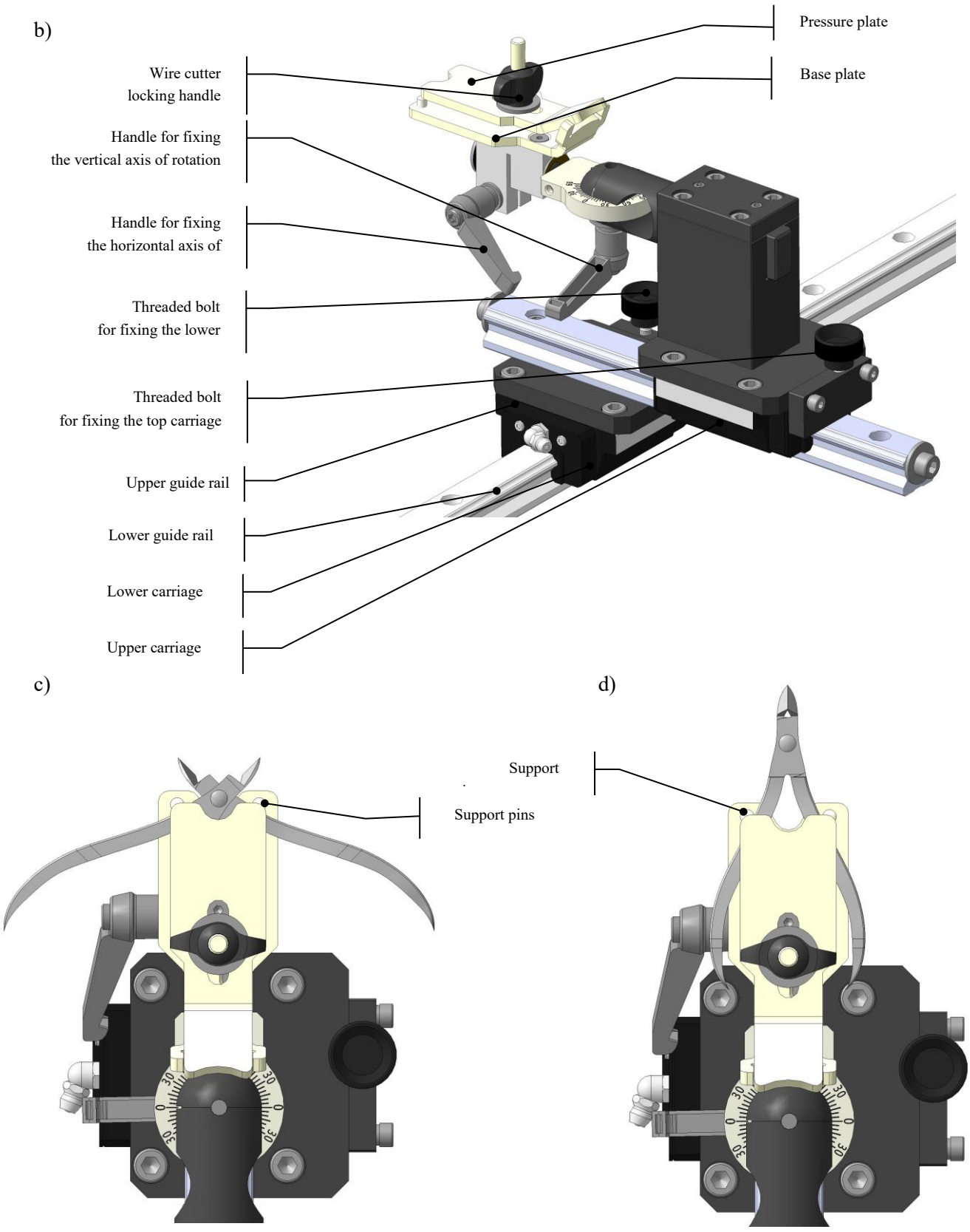


Fig.3 ADEMS GMT-II Machine

a) Overall view of the machine; b) Manipulator; c) Position of the clamps: 'Sharpening';

d) Position of the clamps: 'Beveling'

The ADEMS GMT II machine for sharpening manicure, pedicure, and medical instruments (Fig. 3) consists of a housing on which a tiltable suspension with an electric grinder is mounted. The position of the suspension with the grinder is secured by the suspension locking handle. Adjusting the tilt angle of the grinder is done using the grinder tilt angle adjustment mechanism.

To change the rotation angle, first unlock the suspension locking handle, then press the spring-loaded handwheel of the mechanism – the gear on the handwheel will disengage from the lower sector. While holding the handwheel pressed, rotate it clockwise or counterclockwise to the desired position. Release the handwheel – under spring action, it will engage with both sectors (upper and lower), locking the position. Next, firmly secure the grinder using the suspension locking handle.

A manipulator is mounted on the housing, consisting of two perpendicular rails along which two carriages move for longitudinal and transverse displacement. Knurled bolts are provided for locking the carriages. The extreme left and right positions of the carriages are limited by stops: for the lower carriage, these are bends on the housing; for the upper carriage, they are washers. The holder itself has two degrees of freedom: rotation about vertical and horizontal axes, with subsequent locking.

For working on the machine, lighting is provided via a lamp on a flexible arm, allowing adjustment of the light direction.

A frequency converter for regulating the rotation speed of the wheels is installed on the machine (optional).

Two PROfix units are installed on the machine: a diamond wheel Ø125 mm and an aluminum disc with a magnet Ø123 mm (see Fig. 4a). Two wrenches are required to remove the PROfix units from the machine and change the abrasive wheel. The machine uses two types of PROfix units, with right-hand and left-hand threads. The bushing with a left-hand thread and the PROfix with a left-hand thread are identified by a hole on the end surface (see Fig. 4b).

To remove the PROfix with a left-hand thread from the left side of the machine, it is necessary to unscrew the four-sided round nut on the bushing (clockwise), while holding the bushing position with a second wrench. When installing the PROfix with a left-hand thread on the left side of the machine, the nut rotation direction is counterclockwise.

To remove the PROfix from the right side of the machine, it is necessary to unscrew the four-sided round nut on the bushing (counterclockwise), while holding the bushing position with a second wrench. When installing the PROfix on the right side of the machine, the nut rotation direction is clockwise.

ATTENTION

Under no circumstances should a PROfix with a left-hand thread be installed on a bushing with a right-hand thread, and vice versa, a PROfix with a right-hand thread should be installed on a bushing with a left-hand thread. If installed this way, the nuts may self-loosen during operation, which could lead to a hazardous situation.

ATTENTION

The ADEMS GMT II model does not feature reverse rotation. This design prevents the self-loosening of nuts during operation and, consequently, a potential hazardous situation.

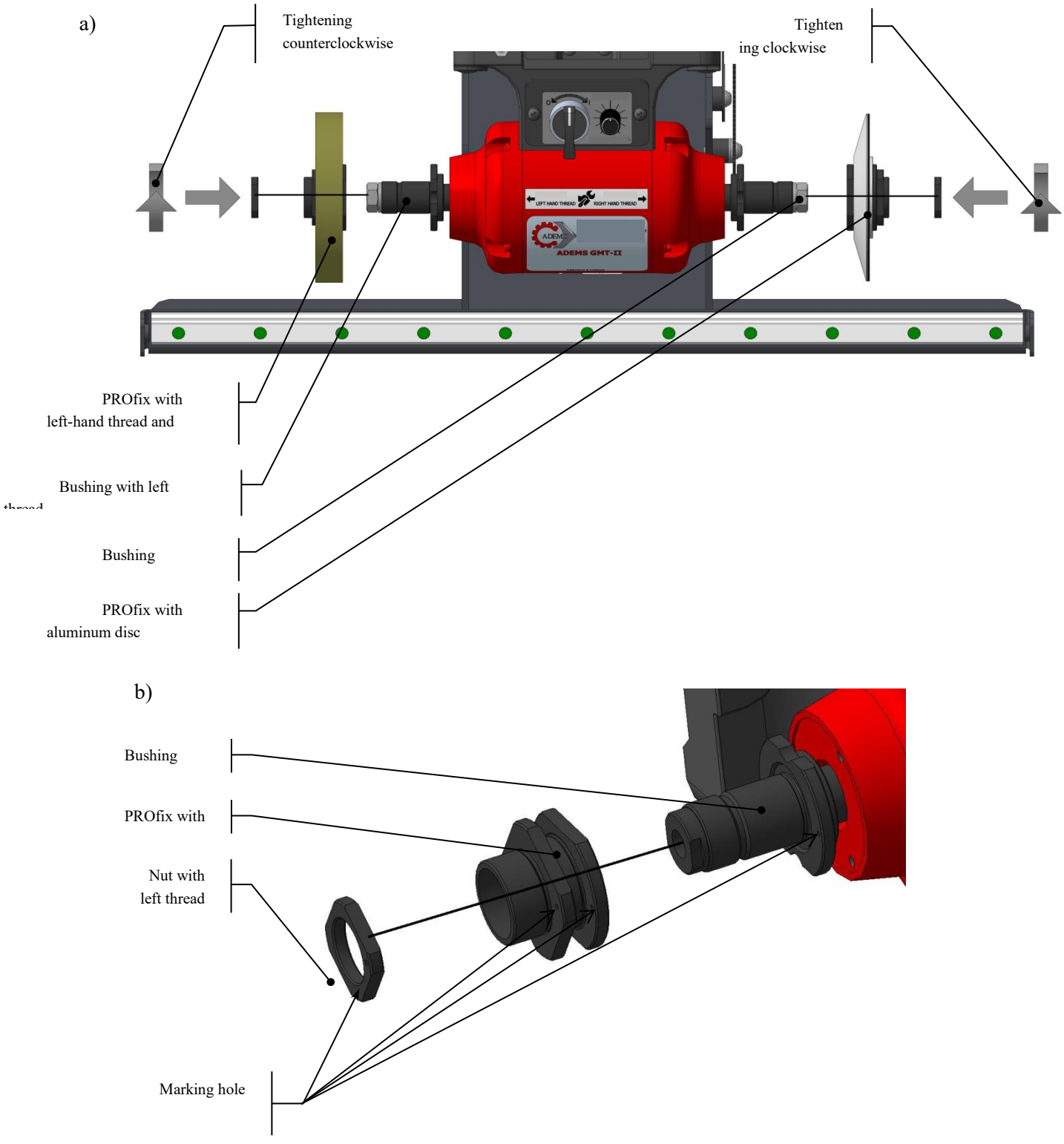


Fig.4 Position of PROfix on the machine
a) Tightening direction; b) PROfix with a left-hand thread on the bushing

7. OPERATING PRINCIPLE

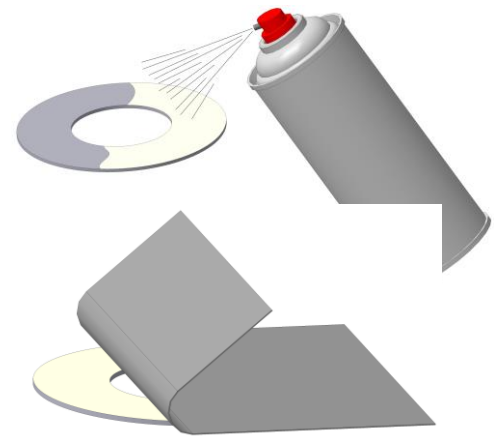
STEP 1. MACHINE PREPARATION

Install the metal disc with abrasive paper onto the magnetic aluminum disc, centering it properly

ATTENTION

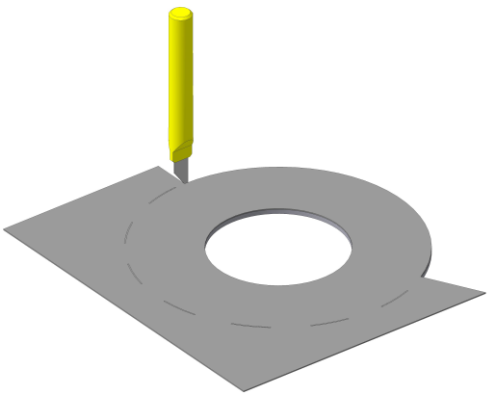
Before starting work, pay attention to the magnetic disc. It must maintain a certain level of magnetization. If the disc's magnetization has decreased, operating such equipment becomes unsafe.

Prepare the surface of the metal discs by degreasing them with acetone or solvent. Wait for the surface to dry completely.



Apply aerosol glue to the surface of the metal disc, following the instructions for use on the glue can's label.

Carefully place the abrasive paper with the abrasive side up onto the adhesive surface of the metal disc. Press it down, smoothing the surface and squeezing out air bubbles between the disc and the abrasive paper.



Allow the glue to dry for 10 minutes, then trim the abrasive paper along the perimeter of the metal disc.

Fig.5 Preparation of the metal disc
a) Applying glue; b) Attaching abrasive paper; c) Trimming the edges

ATTENTION

If you decide to apply a round piece of abrasive paper, then skip the step of trimming it to the perimeter.

Metal discs with attached abrasive discs have different grits. Changing the disc is done manually: detach the disc from the magnet with a slight effort.

Use abrasive paper with the grit values required for your specific case. The set of abrasive wheels supplied with the machine includes Ø 125 mm abrasive wheels with grit values of 320, 600, 800, 1000, 1200, and 1500. The delivery set also includes 4 metal discs. For convenience, apply different grit abrasives to each disc for quick changes when switching between operations for the tool being sharpened

ATTENTION

The choice of the first metal disc with attached abrasive depends on the degree of wear of the nippers being sharpened.
Center the metal disc relative to the aluminum disc with the magnet.
Turn on the machine by moving the two-position switch to the right position.
To change the rotation speed of the wheel, use the frequency converter (purchased separately)

ATTENTION

When turning on the machine, the speed controller should be set to the maximum rotation speed.
The rotation speed (RPM) of the abrasive wheels is displayed on the indicator.
The adjustable speed range is from 996 to 3000 RPM.

ATTENTION

All buttons on the frequency converter panel are disabled to prevent the reset of established settings.

STEP 2. PREPARING THE NIPPERS.

Perform a visual inspection of the nail nippers before sharpening.

ATTENTION

If there are cracks on the handles near the pivot joint – sharpening should not be performed.

ATTENTION

If the springs are damaged or broken – they should be replaced with new ones.
Next, visually check for any nicks on the cutting edges of the blades.
Check how the tips of the nippers meet: whether the very tip closes properly.
The joint of nail nippers often has irregularities that disrupt the tool's function. The cutting edges of the blades may overlap, or the tips and heels of the cutting edges may meet unevenly. A loose joint prevents the blades from closing clearly enough for the cutting edges to cut the cuticle.
Before sharpening the nippers, ensure there is no play between the joint parts. If play is present, it must be eliminated before sharpening (for example, by peening the rivet).

ATTENTION

Excessive force applied to the rivet to eliminate play may cause the joint to crack at that point. Be careful when striking the punch.

ATTENTION

After peening, the nipper joints may stick slightly when opening. To eliminate this sticking, the joints need to be worked in.

When sharpening nippers that allow the spring mechanism to be detached – disassemble them by unscrewing the screw connecting the spring mechanism. If the spring mechanism cannot be disassembled, then it should be rotated to a certain angle so that it does not interfere with positioning the nippers in the clamp cradle.

ATTENTION

Pay attention to any cracks in the spring. If the spring is not removable, it may break when rotated for convenient sharpening.
The end result should be as follows:

- There is no play between the joint parts;
- The spring is capable of opening the joint.

ATTENTION

The operation of peening the nail nipper joints is performed only if necessary.

STEP 3. HONING THE NIPPER JOINTS.

When forming the cutting edge of nippers, there is a chance that a significant amount of metal will be removed from the front surface (sharpening the front surface might not be achieved on the first attempt). Since sharpening the front surface also determines how the cutting edge closes, removing a large amount of metal will cause the handles to settle. As a result, the joints will not allow the nippers to close fully.

Therefore, it is advisable to pre-hone the joints in two places beforehand.

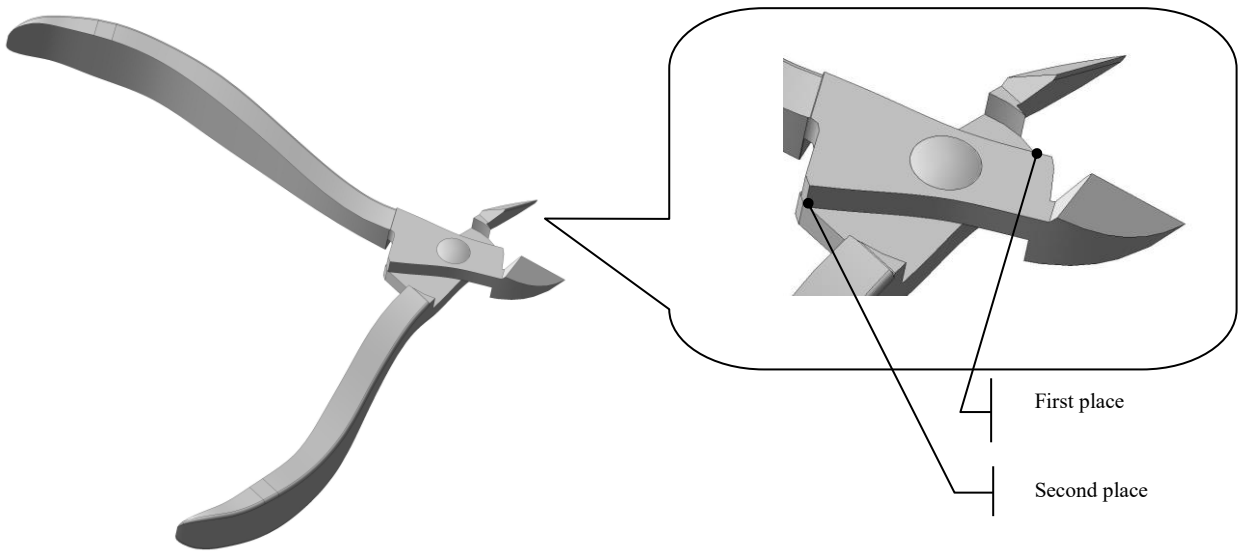


Fig.6 Honing the joints of nail nippers

ATTENTION

Honing the joints is performed on both new nippers and nippers requiring re-sharpening.

STEP 4. INSTALLING THE NIPPERS IN THE CLAMP.
When installing the nippers, the clamp can be removed from the manipulator. By rotating the nipper locking handle counterclockwise, increase the opening of the holder. Insert the opened nippers into the created opening, positioning the nipper handles on the support pins of the base plate. By rotating the nipper locking handle clockwise, lock the nippers with enough force to secure them during sharpening. Insert the clamp into the manipulator, as shown in Fig. 3c.
STEP 5. FORMING THE FRONT SURFACE OF THE NIPPERS.
Loosen, but do not unscrew, the rotation axis locking handles. The nippers now have the ability to rotate about the horizontal and vertical axes of rotation.
Loosen, but do not unscrew, the knurled bolts for locking the upper and lower carriages.
With a smooth motion, bring the holder with the installed nippers towards the metal disc with the abrasive material. Align the cutting edge of one of the nipper blades with the abrasive surface of the disc. Lock the position of the nippers by tightening all handles used in the adjustments, except for the knurled bolt that locks the lower carriage.
Start the machine by turning the "On/Off" switch to the far right position.

ATTENTION

Start the machine at maximum speed and then adjust to the desired value (only for the ADEMS GMT II model with a frequency converter).

With a smooth motion, bring the nippers in the clamp towards the abrasive disc. Contact the disc by gently pressing the cutting edge, thereby removing a minimal amount of metal.

ATTENTION

The applied pressure should be controlled to prevent overheating.
Move the manipulator to a safe distance (at least 150 mm from the disc). Remove the holder from the manipulator and ensure the chosen angle is correct (fig. 7). The quality of the tool's cutting edge sharpening is determined visually by the operator.
Repeat all steps for sharpening the right blade of the nippers.
Correct sharpening is determined by the full-length alignment of the cutting edges when the nippers are closed.

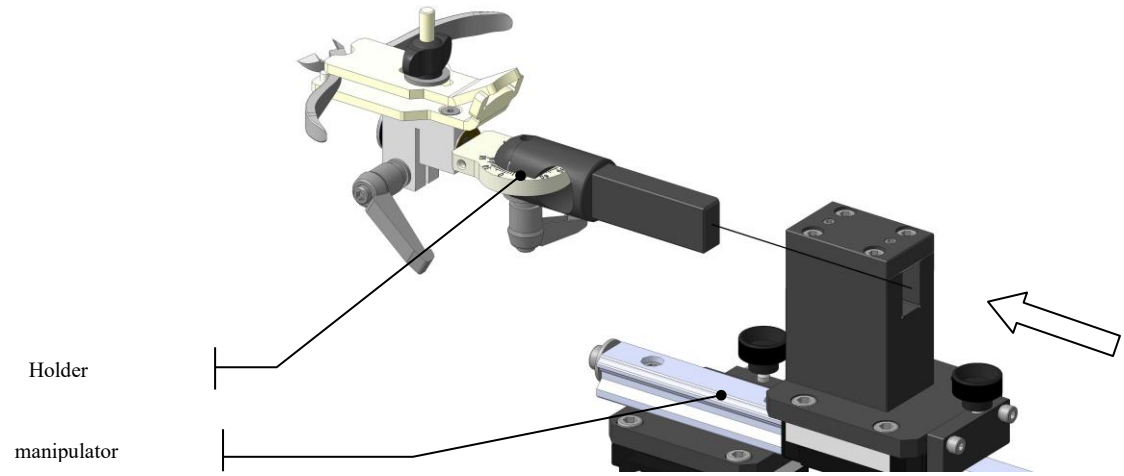


Fig.7 Intermediate Sharpening Check

ATTENTION

All hand movements should be smooth. Strong, abrupt pressing of the tool being sharpened against the disc is not permitted.

STEP 6. FORMING THE CLOSING BEVELS.

Removing the bevel is done similarly to sharpening the blade, with the only difference being that the nippers are installed in the clamp cradle while closed (fig. 3d). Then, all steps are repeated as in Step 5.

ATTENTION

The pressure applied when removing the bevel should be very slight.

The quality of the tool's cutting edge sharpening is determined visually by the sharpener.

STEP 7. FORMING THE BEVEL WIDTH.

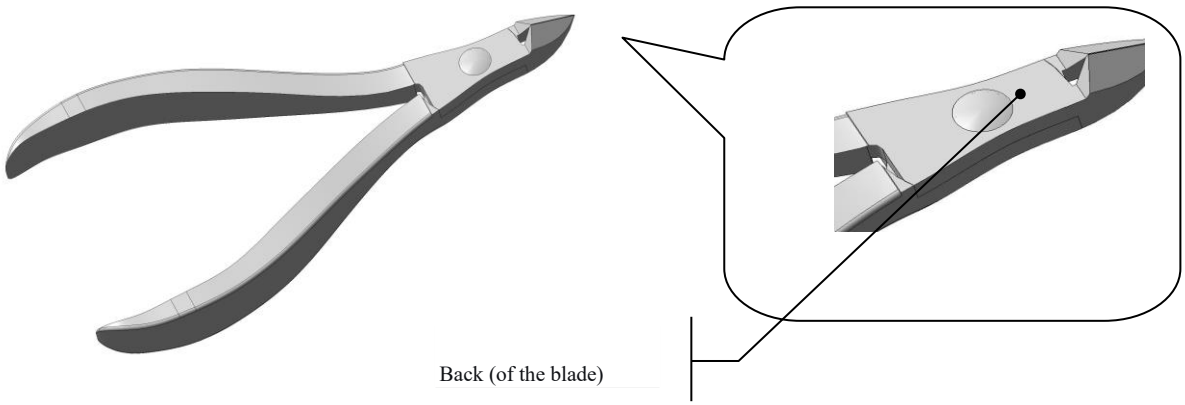


Fig.8 Nail nippers

The bevel width is formed by sharpening the back surfaces of the blades (cheeks). Excessively wide bevels are not allowed (each bevel should not exceed 0.5 – 1 mm). Bevels help quickly establish the primary clearance gap between the cutting edges, increasing their rigidity and strength.

STEP 8. CUTTING TEST.

To test the sharpening of the nail nippers, take a piece of thin polyethylene and try to cut it. This should be done without force, softly and smoothly, as when working with cuticles. The result should be a clean, sharp cut without jagged edges.

STEP 9. CHECKING TIP CLOSURE.

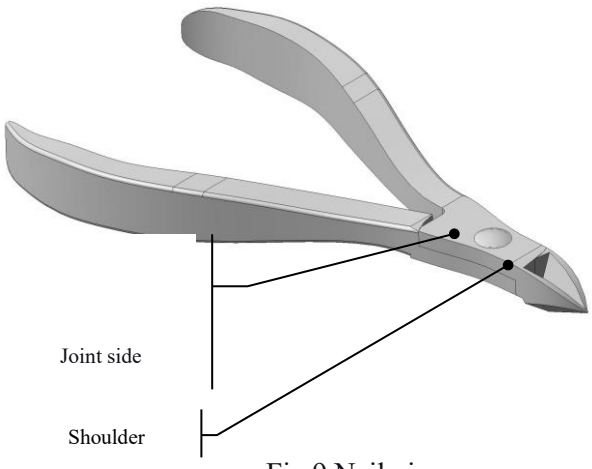


Fig.9 Nail nippers

When the nippers are closed, it may happen that the cutting edges have different lengths. To correct this defect, it is sufficient to remove metal from the shoulder of one of the joints until the cutting edge lengths are even.

STEP 10. REMOVING PROTRUDING PARTS.

When the nippers are closed, the side surface of one joint may protrude relative to the surface of the other joint. This spoils the appearance of the nippers. To avoid this, grind down the protruding part flush with the main metal.

STEP 11. POLISHING.

To remove sharpening marks and add a shine to the appearance, it is recommended to polish all surfaces.

ATTENTION

Do not polish the front surface, even if it shows signs of discoloration from overheating (burn marks).

8. ADJUSTMENT, SETUP, LUBRICATION

To adjust the extreme positions of the upper carriage, the transverse movement rails can be moved one step (60 mm) closer to the disc.

Lubrication of moving and locking elements – once a week.
Disassembly, cleaning, and lubrication of moving elements – once a month.
Recommended lubricants: **TSIATIM-201 GOST 6267-74** or **Litol-24 GOST 21150-87**.
Wipe off any excess lubricant thoroughly with a cloth to prevent abrasive dust from adhering.

ATTENTION

During cleaning and blowing out of the carriages, it is necessary to remove the balls located under the knurled bolts that lock the upper and lower carriages, and return them to their place afterward.

ATTENTION

To extend the machine's service life, after each use, thoroughly wipe down the machine, especially the rails, with a cloth to remove abrasive dust, preventing it from entering the rubbing elements. This will prevent premature play from developing.

Our company is continuously working to improve the machine, so there may be minor design changes not reflected in this manual.

ATTENTION

You can learn the fundamentals of sharpening hairdressing and manicure tools on our company's equipment at our training centers by contacting us

9. OPTIONS

9.1. Frequency Converter for the ADEMS GMT II Machine

This kit is designed for changing the rotation speed of diamond wheels, abrasive wheels, and wheels with abrasive paper when sharpening manicure, pedicure, and medical tools.

ATTENTION

All buttons and the rheostat knob on the frequency converter control panel are disabled to prevent accidental resetting of settings. Speed adjustment on the machine is controlled using the knob installed on the grinder itself. After connecting the frequency converter to the grinder, the rotation speed adjustment knob is automatically activated (it was inactive before).

STEP 1. INSTALLING AND CONNECTING THE FREQUENCY CONVERTER.

Attach the bracket to the frequency converter housing. Mount the assembled frequency converter with bracket onto the sharpening machine's housing using the screws from the delivery set, as shown in Fig. 1b.
Carefully pull out the jumper cord from the socket on the rear side of the grinder.
Connect the wire coming from the frequency converter housing to the now-free socket.

ATTENTION
The hex key No.5, included in the machine's delivery set, is suitable for installing the frequency converter.

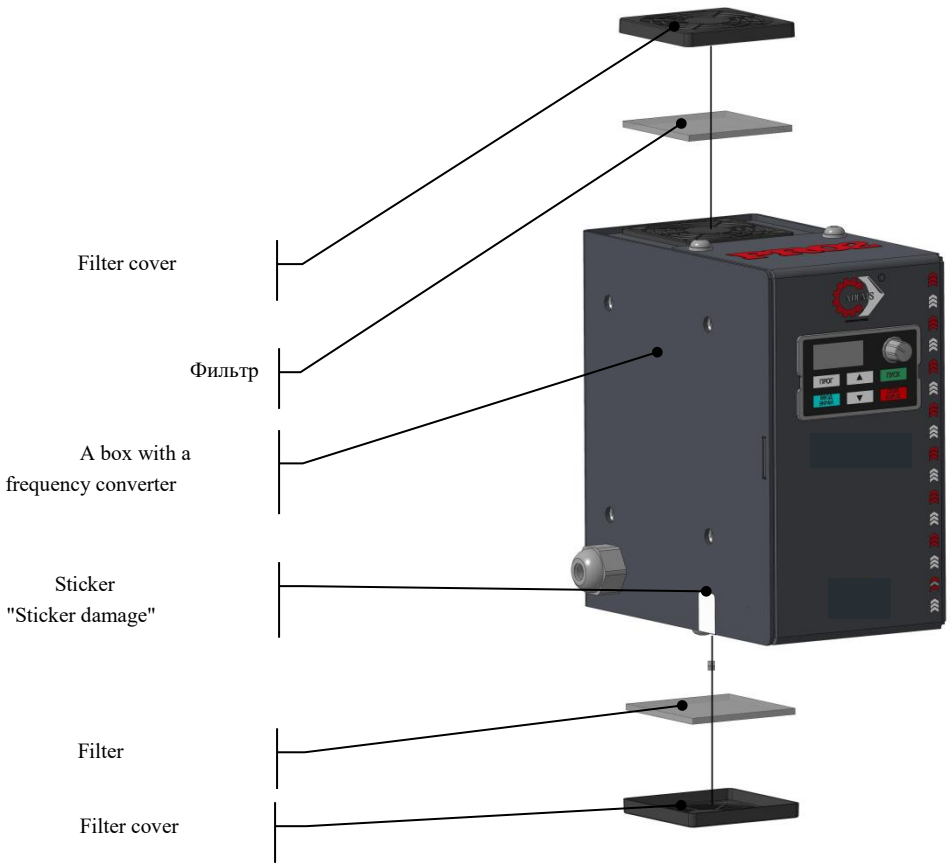


Fig. 10. Disassembly and Cleaning of Filters

Periodically, once or twice a month depending on the intensity of machine use, it is necessary to clean the filters of accumulated dust and dirt for the normal operation of the frequency converter. To do this, remove the filter covers as shown in Fig. 16, take out the filters, and blow out or wash the filters to remove dust and dirt. When washing the filter, you can add a little detergent to the water, after which the filter must be thoroughly rinsed in water and air-dried at room temperature. After drying, reassemble the filter in the reverse order, and you can proceed to work on the machine.

ATTENTION

It is prohibited to install a damp, undried filter into the filter housing on the frequency converter, as this may lead to a short circuit and failure of the frequency converter, which automatically voids the machine's warranty. Disassembly of the frequency converter is prohibited; damage to the warranty sticker also voids the machine's warranty.

ATTENTION

When turning on the machine, the speed controller should be set to the maximum rotation speed.

The rotation speed (RPM) of the abrasive wheels is displayed on the indicator.
The adjustable speed range is from 996 to 3000 RPM.

RELATED PRODUCTS

Consumables Kit for Sharpening Manicure Tools for ADEMS GMT-II Machines.

This kit, developed by our company's specialists, is for sharpening and polishing hairdressing scissors, animal grooming scissors, surgical, and dental instruments on the ADEMS Full Drive machine.
The delivery set includes:

- Set of self-adhesive abrasive discs 125 mm (240, 600 Grit) - 10 pcs. of each type;
- Self-adhesive abrasive disc 125 mm (320 Grit) - 20 pcs.;
- Waterproof sandpaper (2500 Grit) - 1 pc.;
- Polishing vulcanite wheel 150x16x32 C 80 MF R 25 m/s - 1 pc.

ADEMS PROfix – Abrasive Wheel Mounting Kit.

This kit is for mounting an abrasive wheel for subsequent dressing. When removing and reinstalling a wheel mounted this way on the GMT II machine, the need for re-dressing to eliminate runout is eliminated.

Micro-feed for the ADEMS GMT II Machine.

This kit is for more precise movement of the manipulator with the clamped tool into the processing zone.

Peening and Repair Tool for Manicure Nippers.

Designed to eliminate play in the pivot joint of manicure nippers by peening the rivet. Also used for driving out the rivet from the joint during nipper repair.

Sharpening Kit for Knives and Scissors for the ADEMS GMT II Machine.

Intended for sharpening scissors (household, office, tailor's, etc.) and knives on the ADEMS GMT II machine.

Aluminum Disc with Magnet for the ADEMS GMT II Machine.

Designed for securing quick-change metal discs with abrasive paper or leather polishing wheels.

Metal Disc Ø 125 mm for the ADEMS GMT II Machine.

Designed for applying abrasive sanding paper. Thanks to the unique ADEMS ASAB quick-change and fixation system, changing metal discs takes just seconds.

Leather Wheel for Burr Removal and Polishing Ø 125 mm.

Used for burr removal, finishing, polishing, and tool dressing.

Vulcanite Polishing Wheel 150x16x32 C 80 MF R 25.

Used for grinding and polishing surfaces of hairdressing, manicure, medical, and other tools made of hard, stainless steels, heat-resistant nickel-based alloys, and titanium alloys.

Abrasive Grinding Wheel 150x13x32 mm 25A F180 K 6 V.

Designed for professional sharpening of office, household, tailor's, garden scissors, as well as kitchen, table, butcher, and carving knives on ADEMS machines.

10. WARRANTY SERVICE CONDITIONS

10.1. The warranty period is one year from the date of sale.

10.2. Warranty, as well as post-warranty repairs, are performed only by specialists of the "ADEMS" company.

10.3. The warranty covers only manufacturing defects identified during the operation of the equipment within the warranty period.

10.4. Equipment is accepted for warranty repair only if the following correctly completed documents are provided: a free-form application addressed to the General Director with the following fields filled in:

- Equipment name;
- Date of purchase;
- Cost of equipment;
- Reason for warranty claim;
- Whether it was used or not;
- Buyer's signature;
- Equipment serial number, copied from this equipment's passport.

10.5. The warranty does not cover:

- Consumables (accessories and supplies), e.g., discs, abrasive belts, abrasive paper, oils, filters, etc.;
- Power cords; in case of insulation damage, they must be replaced without the owner's consent.

10.6. Warranty repair is not performed in the following cases:

- Absence, damage, or alteration of the serial number on the equipment or in its passport, as well as their mismatch;
- Use of the equipment for purposes other than those specified in the operating instructions.
- Failure due to overload;
- Mechanical damage to the equipment;
- Defects arising from the actions of third parties, force majeure, natural disasters, adverse atmospheric effects and/or external influences of aggressive environments and high temperatures;
- Natural wear and tear of the equipment (complete or partial resource depletion, severe internal or external contamination, rust);
- Damage due to non-compliance with the prescribed operating instructions;
- Equipment damage due to power grid voltage spikes;
- Entry of foreign objects into the equipment that are not waste products of normal use;
- Equipment damage due to non-compliance with storage and transportation rules.
- After attempts of self-opening, repair, structural modifications, or lubrication of the equipment during the warranty period, as evidenced by damaged stickers/seals;
- Breakdowns related to lack of equipment maintenance;
- Partially or fully disassembled equipment;

10.7. Preventive maintenance of the equipment (cleaning, flushing, and lubricant replacement) during the warranty period is a paid service.

10.8. The equipment service life is 3 years from the date of manufacture.

10.9. The owner will be informed of any possible violations of the above warranty conditions after the equipment is diagnosed by specialists of the "ADEMS" company.

10.10. The owner authorizes the diagnostics of the equipment by specialists of the "ADEMS" company in their absence.

10.11. Under no circumstances shall the "ADEMS" company be liable for:

- Losses or damages that, at the time of equipment purchase, cannot be attributed to the consequences of "ADEMS" violating the terms of this warranty;
- Losses incurred due to the fault of the owner, loss of commercial appearance, lost profits, or lost benefits. 10.12. Available service options, spare parts, and response times may vary by country. If service is required in a country where "ADEMS" does not have an Authorized Supplier, the number of service options may be limited. If international service is available, "ADEMS" may repair or replace the equipment and parts with comparable equipment or parts that meet local standards.

ATTENTION

Design or appearance changes that are not reflected in this manual are possible.