

User Manual

Fleshing machine

Fleshing machine TW1901-P



Dear customer

Thank you for purchasing a fleshing machine TW. Skin working machines from Taxidermy-World not only offer you professional top quality and versatile technical features, but also excel through their optimal price/performance ratio. Continuous new developments and innovation guarantee state-of-the-art technology and safety. We make every effort to provide you with products that are pleasant to work with, that make your job easier and that remain efficient to use.

For your own safety and to ensure trouble-free use, please read this manual thoroughly before using the new product. Keep this manual for future reference.





About this manual

This user manual contains all the necessary instructions for the correct application and maintenance of the machine. Under these circumstances, you can have any defective parts replaced free of charge during the warranty period. Our distribution network is always there for you, not only for customer service, but also for replacement parts and wishes that you want to fulfil because they help you develop your business. Of course, your comments on improvements to this manual are a welcome contribution to further improving the quality that Taxidermy-World delivers to every customer.

The images and text in this manual may differ slightly from your machine. The reason for this is that the manufacturer may have made both external and technical changes in the context of further product improvement without prior notice. We reserve the right to make changes and errors.

This manual has been produced by the assembler of the fleshing machine and is supplied with the machine as standard. The contents are intended for the user. The manual defines the scope of application of the machine and contains all the information necessary for safe and correct use. Careful observance of the instructions in this manual guarantees the safety of the user and the machine, cost-saving work and a long life of the machine. The most important aspects are clearly described in separate chapters. The table of contents quickly shows you the way to each subject. Important information is printed in bold and is marked with the following striking symbols:

Special symbols

| | |
|---|--|
|  | Important: Indicates situations that could cause danger to persons, damage to the machine and/or in the immediate vicinity or financial losses. |
|  | Caution! Rotating parts. Risk of injury! |
|  | Caution! Wear safety goggles. Risk of injury! |
|  | Caution! Pull the power cable out of the wall socket before starting. Risk of injury! |

The term 'machine' or 'fleshing machine' replaces the usual type designation of the product purchased by you, to which this user manual belongs (see cover page).

The term 'qualified personnel' means personnel who, on the basis of experience, technical training and professional knowledge, are able to carry out the required work and who, in addition, foresee potentially dangerous situations when setting up, operating and maintaining the machine and are able to avoid them in good time.

If you have any questions, please feel free to contact Taxidermy-World.

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1. Type designation of the machine

The machine is a machine composed of several existing parts without a unique nameplate. The assembled machine is commonly referred to as 'Brush machine TW1901-P'. The manufacturer has applied a nameplate to the electric motor. This contains the type designation, the article number and the most important technical data of the motor. This plate must always be clean and legible.

2. Appropriate use

The TW fleshing machine is not a universal machine. It is only suitable for fleshing animal skins, both untreated (freshly skinned) and treated (tanning). It is forbidden to use this machine to work with food and materials that are harmful to health. The fleshing machine may only be used with rotating attachments (with rotationally symmetrical body and rotationally symmetrical cutting edges) or with attachments whose cutting edges produce a force distributed symmetrically around the rotating axis of the attachment at the time of gripping. The machine is driven by a direct transmission on the motor shaft. All machines are equipped with a high-quality coupling bushing and a protection switch on top of the machine that is easily accessible from the front in accordance with IP 54. The machines can be used specifically in the taxidermy and skin treatment sector (tanneries), in companies, workshops and at home.



Important:

The machines may only be used if they are in perfect technical order. Any malfunctions must be repaired immediately.

Modifications made to the machine by the user himself, its use for applications other than those indicated as permissible, as well as non-compliance with safety regulations or with the instructions in this manual may cause injury to persons or damage to objects. In these cases, the assembler is in no way liable for these injuries or damages and the warranty on the machine will also lapse!

3. Technical data

Fleshing machine TW

| | |
|-----------------------|-----------------------------------|
| Pin diameter brush | max. 6 mm |
| Brush diameter | 80 mm |
| Width brush | 18 mm (standard) up to max. 40 mm |
| Engine | ECHTOP engine type MY 63 2-4 |
| Brush speed | 1380 rpm |
| Engine power | 0.18 kW / 230 V |
| On/Off switch | IP45 |
| Table surface (L x W) | 73 cm x 35 cm |
| Total height | 35 cm |
| Net weight | 13 kg |

3.1 Sound pressure level

The noise production (sound pressure) of this machine is between 55 and 65 dB(A) when the machine is placed in a stable position and runs unloaded. Under load, the noise produced at the workplace can exceed 65 dB(A). If the noise level exceeds 80 dB(A), measures must be taken to protect the noise and the hearing of personnel.



Important:

It should be borne in mind that the duration of the noise exposure, the type and design of the work and other machinery in operation at the same time also have an impact on the noise exposure at the workplace.

4. Safety instructions



Important:

Carefully read the instructions for operating and maintaining the machine before switching on the machine, using it or changing parts. The machine may only be used by persons who are familiar with its operation and operation.



Watch out!

Repairs, maintenance and modifications may only be carried out by qualified personnel and only after the machine has been switched off (unplug the mains plug from the wall socket!).

- Always check the correct fastening of the rotating brush before switching on the machine!
- Always avoid direct contact between your hands and the rotating brush / parts when working with the machine!
- Always attach and use all safety devices. Never work without safety devices and make sure that they always work correctly. Check their function before carrying out any work with the fleshing machine.
- Always keep the machine and the workplace clean. Disinfect the collection cap, housing, coupling sleeve and brush with a disinfectant detergent after use.
- Provide adequate lighting.
- The set-up of the machine may not be changed and the machine may not be used for tasks other than those for which the assembler has developed it.
- Never use the machine if your concentration has been reduced by illness, overtiredness, alcohol or medication.
- After assembly or repair, do not switch on the machine until you have removed tools and other loose parts from the machine.
- Make sure that you are aware of all safety warnings and possible hazards on the machine and that these labels are always undamaged and clearly legible.
- Keep children or people who are not familiar with the machine away from the workplace and the machine.
- The machine may only be operated, adjusted and maintained by persons who are familiar with the operation and risks of the machine.
- Always switch off the machine before carrying out any maintenance or adjusting the settings of the machine! Also disconnect the mains plug from the wall socket or disconnect the machine from the mains supply!
- If you want to pull the mains cable out of the wall socket, never pull the mains cable, but always grasp the mains plug. Protect the mains cable from heat, oil and sharp edges.
- Always check that the power switch is in the "0" position (red) before connecting the mains cable to a wall socket so that the machine does not switch on unintentionally.
- Always wear close-fitting work clothes, tight-fitting gloves, safety goggles and a face shield or face shield and, if necessary, hearing protectors. Tie long hair together. Do not wear a watch, bracelets, necklaces or rings when working, as they pose a danger to rotating parts!
- Immediately rectify any faults that may impair safety.
- Never leave the machine switched on unattended and do not leave the machine until all parts have come to a complete standstill. Then disconnect the mains cable from the wall socket so that the machine cannot be switched on unintentionally.
- Protect the electric motor on the machine from moisture. (Short circuit hazard!)
- Never use electrical equipment and machines near flammable liquids and gases. (Danger of explosion!)
- Before switching on the machine, make sure that no parts are damaged. Replace any damaged parts immediately in order to avoid dangers!
- Avoid any overloading of the machine! The machine works better and safer if you comply with the specified load criteria. Always use the correct attachments! Never use damaged attachments.
- Use only original spare parts and accessories to avoid the risk of accidents.

4.1 Residual risk

Even if you observe all safety regulations and use the machine in accordance with the regulations, the following residual risks remain:

- Contact with rotating parts or accessories
- Rupture of materials
- Injury caused by flying materials or parts of the processed material
- Infection with bacteria, viruses and/or zoonoses
- Fire hazard in case of insufficient ventilation around the engine
- Contact with live parts
- Damage to your hearing during prolonged work without hearing protectors



Important:

We would like to stress that every machine poses residual risks. For each operation (no matter how simple) ensure maximum caution. Working safely is up to you!

There is an inherent risk that the skin to be brushed will be pulled into the rotating shaft, even when used correctly according to the instructions of the fleshing machine. The skin will then rotate hard and may touch you. Especially if there are still bones in the skin, it can hit hard. When the brush pulls the skin into the rotating shaft, you should immediately retract both hands, lean back and switch off the machine as soon as possible. **Never reach into the brush to save the skin!** The assembler of this fleshing machine excludes any liability in advance for damage and/or injury resulting from hides pulled into the machine.

5. Delivered parts

The machine is delivered ready assembled. Carefully remove the machine from its packaging and immediately check that all parts have been delivered in the correct number and undamaged, and that they may not have come loose or shifted as a result of transport, based on the following list:

- A metal housing (housing)
- Adjustable motor support with mounting accessories (4x for mounting on housing and 4x for mounting motor)
- Electric motor with on/off switch and mains cable
- One coupling with 2x 2 socket screws
- A transparent plexiglass splash guard (detachable / detachable part)
- One brass brush
- An Allen key
- A user manual

6. Installing the machine

The fleshing machine must be placed firmly on a stable surface so that it cannot fall over and injure anyone. In the case of a fixed installation, the base plate of the fleshing machine must be screwed or bolts bolted to the surface. If the machine has to be movable, the base plate must be fixed to the surface (table) with, for example, an adhesive pliers.

If you screw the fleshing machine onto a wooden plate or bolt, use filling rings of sufficient size so that the nuts are not pressed into the wood and the machine cannot come loose.

Make sure that the machine is set up in such a way that you can operate the machine in an ergonomically correct position. Therefore, ensure the correct working height (both when standing or sitting) and, if desired, an ergonomically correct support option for the arms / elbows.



Important

Make sure that the machine remains accessible all around for operation, adjustment and maintenance. Do not over-tighten the fastening screws as the base plate must not be deformed or tightened. This may cause hairline cracks and cracks in the metal housing.

Check that the bolts used to mount the motor support to the housing are actually tightened by tightening or retightening them with a suitable ring or spanner.

Remove the plexiglass collection cap and check that the coupling is securely attached to the motor shaft by tightening or retightening the Allen bolts.



Important:

Before checking the mounting of the motor support and/or coupling, make sure that the mains cable has been disconnected from the wall socket!

Make sure that the socket screws of the coupling are exactly screwed into the keyway (recess) of the motor shaft, only then is the coupling properly and securely mounted!

Check that the supplied brass brush is tightened in the coupling sleeve by also tightening or retightening these socket screws.



Important:

Only use brushes with a pin (shaft) that fit snugly into the coupling sleeve!

7. Connecting the power supply



Important:

Connection to the mains must only be carried out by an electrician or specially trained personnel. Check beforehand that the mains voltage has been switched off. The assembler is not liable for personal injury or damage to property resulting from non-compliance with these regulations!

Warning: Before connecting the machine to the mains voltage, make sure that the mains voltage at the selected connection point is the same as indicated on the nameplate on the motor of the fleshing machine. If the mains voltage is too high, the operator may be seriously injured and the machine may be seriously damaged. If the mains voltage is too low, the motor can be damaged.

Do not connect the supply voltage until after the machine has been set up. The connector for the supply voltage must be of the type Europlug 16A - 250V~ or similar.

The machine can withstand voltage fluctuations of up to 5% (with a machine for a nominal supply voltage of 220 V, the tolerance range is 210 V to 230 V), but the machine operates best at the specified voltage. If the mains voltage is outside the tolerance range, this must be adjusted first. Observe the direction of rotation of the motor when connecting.

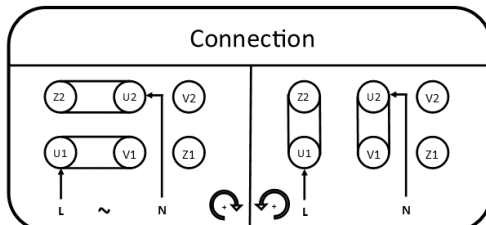
8. Settings

8.1 Adjusting the direction of rotation of the brush

The fleshing machine rotates clockwise as standard. If you want the brush to rotate counterclockwise, you have to adjust the circuit in the electric motor according to the diagram below. Always disconnect the machine from the power supply first! Only an electrician or specially trained personnel may modify the circuit.



Schakelschema:



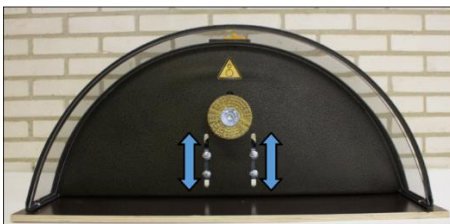
Important:

If the circuit is modified by an expert, the warranty becomes null and void!

8.2 Adjust working height

The rotating brush can be raised or lowered as required. It is important that a correct ergonomic position is taken into account.

By loosening the 4 nuts that attach the motor support to the housing, you can slide the support and the motor and brush attached to it down or up. Do not unscrew the nuts more than slightly, not remove them! Adjust the brush to the desired height and tighten each nut so that it cannot vibrate loosely.



9. Taking into use



Important:

Note rotating parts! Always keep your attention on the job.

Always wear close-fitting work clothing. CAUTION: Loose garments or your hair can be caught by rotating parts. Therefore, wear a hair net. Do not wear jewellery when working with the machine. Pay attention to flying material parts (bristles) and organic parts such as grease, meat residues, liquids, etc... Always wear safety goggles and a face shield! Protect your eyes against sharp objects and other (infectious) material residues.

9.1 Preparing the machine

Make sure that the machine is set up according to the instructions and that it is correctly connected to the mains supply. Make sure that the settings (direction of rotation and working height) are adjusted to your personal preference.



Important:

A new (brass) brush is sharp, i.e. the ends of the 'hairs' are stiff and may contain burrs. A new brush can therefore easily cut or 'grab' thin skins and pull them into the rotating shaft. When using a new brush, it is important to remove it first. This can easily be done by placing the brush in the machine, turning it on and pressing a piece of (soft) wood against the brush with light pressure. Burr will then (largely) disappear.

9.2 In the course of work

Turn on the machine by switching on the on/off switch. Let the brush run at no load.

Turn the skinned skin inside out so that the 'flesh side' is visible. Make sure that (long) bristles or feathers do not come close to the rotating brush. Hold the skin with two hands and stretch the skin over your hand(s) so that the skin lies between your hands and the rotating brush. Press the skin with the flesh side slightly against the brush and let the brush do the job. Gently move the skin along the rotating brush so that any flesh and grease residue from the skin is brushed. Please note: these residues sway sideways and upwards from the brush, making sure that the cap is correctly positioned.

Hair implants: do not brush hair follicles broken, otherwise the hairs may fall out.

Feather implant: Do not brush feather implants broken, otherwise the feathers may fall out. Keep an eye on the plant in the direction of the springboards, do not brush against the direction of the springboards to prevent tearing of the skin.

Keep the skin moving while fleshing so that you do not brush too long in one place. Friction creates heat which can affect the skin in that area (spoil). Keep the skin cool and moist for best results. If necessary, moisten the skin regularly, possibly with a soap solution to break down grease.



Important:

Ensure correct ergonomic posture when using the fleshing machine to avoid back, neck and/or shoulder problems. Do not work too long in the same position and take regular breaks.



Important:

Inherent in the use of fleshing machines is the risk that the skin to be brushed is pulled into the rotating shaft, even when used correctly according to the instructions of the fleshing machine. The skin will then rotate hard and may touch you. Especially if there are still bones in the skin, it can hit hard.

When the brush pulls the skin into the rotating shaft, you should:

- Immediately retract both hands
- lean back immediately to get out of reach of rotating parts
- switch off the machine as soon as possible
- **Never grab into the brush to save the skin!**



Important:

Always check that a brush is securely clamped. Replace worn brushes in time, always deburr new brushes first. Only use accessories and attachments that have been approved by the assembler.

10. Cleaning and maintenance

All the functions of your fleshing machine will only continue to work accurately if you handle it carefully, clean it regularly and make sure that nuts and Allen bolts are always tightened properly when using the fleshing machine. Only proper maintenance will ensure that the quality of the brushwork remains high.

10.1 Cleaning

Because you work with perishable organic animal materials, the fleshing machine may be contaminated with diseases (zoonoses) that are dangerous for humans. It is therefore very important that you thoroughly clean the machine, but also the immediate surroundings and other materials used such as sinks and disinfect them with a disinfectant after each use.

The brush can be placed in a disinfecting bath. Then mount the brush again and let it rotate for a while to swing water out of the brush.

The plexiglass collection cap is easy to remove from the housing and rinse under the tap. It can also be cleaned with disinfectant. Do not use abrasive soaps or sponges to prevent scratches.



Important:

Meat and fat residues that have received taxidermy treatment are almost always classified as high-risk material and must be disposed of properly. Please consult your local or national legislation.

10.2 Maintenance

Due to normal wear and tear, it may be necessary to repair or replace parts on the machine.

Important:

Repairs may only be carried out by qualified personnel with specialist knowledge of mechanics.

11. Warranty

We grant you a 12-month warranty on this machine in accordance with legal and national regulations.

Damage resulting from normal wear and tear, transport damage, overload or incorrect operation and handling is not covered by the warranty. Damage caused by material or manufacturing faults on the part of the manufacturer will be repaired by the assembler free of charge during the warranty period in the form of repairs or replacement parts.

You can only claim under the warranty if you assemble the machine and hand it over to the supplier together with the proof of purchase.

12. Problem solving

| Problem | Possible cause | Solution |
|------------------------------|--|--|
| Motor machine is not running | Mains cable not plugged in | Plug the power cord into an electrical outlet |
| | No mains voltage | Check the fuse in your control cabinet |
| | Mains cable defective (broken or disconnected) | Switch off the machine immediately and have it checked by a specialist |
| | Wrongly wired | Switch off the machine immediately and have it checked by a specialist |
| | | |

| | | |
|------------------------------------|--|--|
| Engine machine runs weakly | Mains voltage too low | Switch off the machine immediately and have it checked by a specialist. |
| Motor overheated | No or too little cooling | Remove objects behind the machine so that the engine is free. |
| | | Clean the engine's cooling fins with compressor air. |
| Abnormal noises during fleshing | Vibration in machine | Securing the machine to the surface |
| | | Check that all the nuts on the engine mount are tightened. |
| | Motor shaft touches housing | Install the motor holder so that the shaft is free of the housing. |
| Brush swings or does not rotate | Coupling sleeve not tightened properly | Install the coupling sleeve so that the socket screws fit into the motor shaft slot. |
| | Coupling sleeve not tightened properly | Install the coupling sleeve so that the socket screws fit into the motor shaft slot. |
| | Brush not properly fixed | Tighten the Allen bolts on the pin of the brush. |
| Brush turns in the wrong direction | Wrong brush assembled | Check that the pin of the brush has the correct diameter for the coupling sleeve. |
| | Wrongly wired | For direction of rotation, see §8.1 |

13. CE Declaration of Conformit

We hereby confirm that the design, construction and the fleshing machine marketed by us are in accordance with the applicable health and safety regulations laid down in the EC Directives. The validity of this declaration expires if a change is made to the machine that has not been approved by us.

Composition: Bos en Fauna; Koningsweg 35 - building H, 6816 TG Schaarsbergen, Netherlands

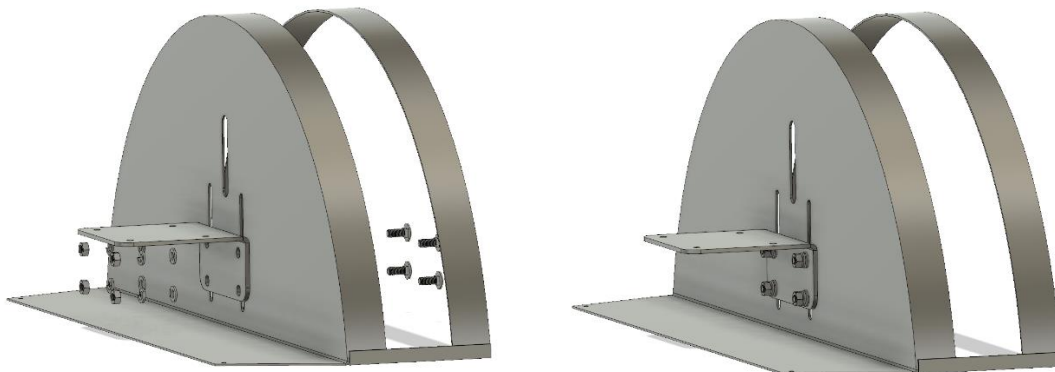
Designation of the machine: Fleshing machine TW1901-P

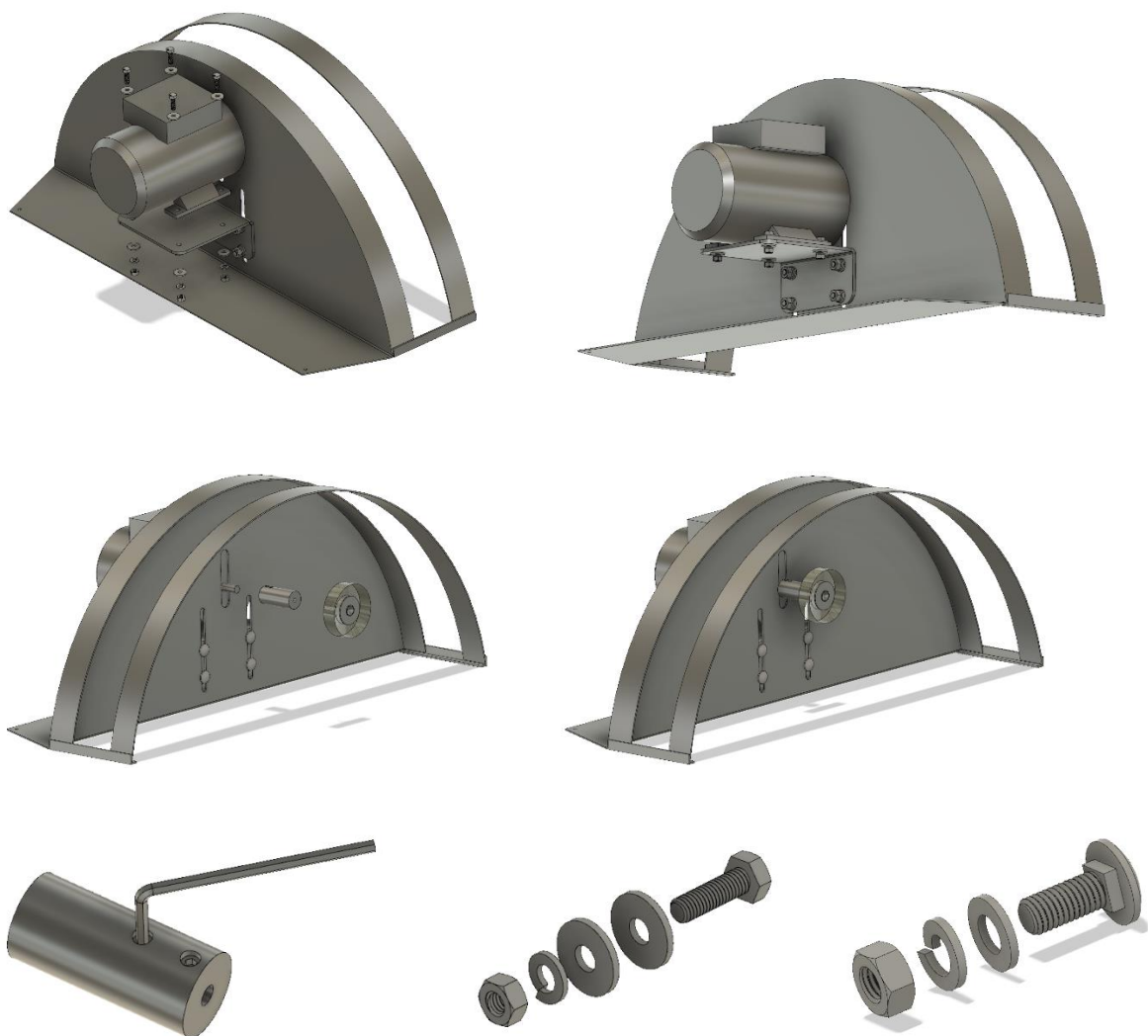
Type of machine: Brush machine tabletop model for taxidermy purposes

Applicable EU Directives: 2006/42/EC (EU Machinery Directive); 2014/30/EU (EMC Directive); 2014/35/EU (EU Low Voltage Directive)

Ing A.J.N. van Dijk - Directeur Bos en Fauna - Schaarsbergen, 1 april 2019

14. Parts drawings fleshing machine TW





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