BATTERY OPERATEDDERMATOME
(Wheel Lever)

DERMATOME M10-101

USER MANUAL
AYGUN DERMATOME M10-101

**LEGEND**

1. Dermatome
2. Sliding surfaces
3. Blade cover
4. Blade cover release button
5. Clamping lever
6. Blade guide pegs
7. Pusher dog
8. Flaps
9. Surface
10. Lever setting wheel
11. Dial wheel
12. Trigger (for controlling oscillation frequency)
13. Trigger safety lock
14. Dermatome blade
15. Sterile funnel (Battery loading cover)
16. Cover
17. Cover release button
18. Battery
19. Battery guide (for proper insertion of the battery to the dermatome)
## Symbols on Dermatome Product

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>⚠️</td>
<td>Caution, general warning symbol</td>
</tr>
<tr>
<td>⚠️</td>
<td>Classification type BF</td>
</tr>
<tr>
<td>⚠️</td>
<td>Do not immerse this product into water</td>
</tr>
<tr>
<td>⚠️</td>
<td>Oscillation frequency adjustment</td>
</tr>
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INTENDED USE

Dermatome is used for the purpose of flaying the zones in the skin containing lesions at the dermatological operations, obtaining skin grafts. For this purpose, the physician is able to adjust the thickness of the zone to be removed, that is to say the penetration depth and cutting width of the dermatome.

FUNCTIONS

The mechanical system of the dermatome conveys the rotation movement from the battery powered electric motor to oscillation movement for the blade. The oscillation frequency is adjusted by pushing and releasing the trigger. Removable special batteries make steam sterilization possible. Blade change mechanism designed to insert the blade only one side thus incorrect blade insertion is avoided.

Cutting thickness can be adjusted from 0.17 mm to 1.19 mm in 7 steps by one finger. 8 flaps give the ability to adjust cutting width from 9.75mm to 78mm. The trigger has a safe lock mechanism that prevents from unwanted operation of the motor.

PREPARATION PRIOR TO USAGE

Adequate and diligent assembly of the system is necessary in terms of patient and operator health and avoids any malfunctions to exclude the product out of the warranty scope.

The dermatome can only be used together with the M10–103 Charger unit, M10-102 Rechargeable battery, M10-104 Battery loading cover, M7-105 Dermatome Blades.

Such functional use of dermatome is optional for the physicians. Regardless of whatever surgical motor system is preferred, the following stages shall be valid for the assembly of the system.

Make sure that the motor is not operational during the assembly and disassembly of the system.
Inserting the Dermatome Blade

⚠️ Make sure that the trigger safe lock is closed to avoid unwanted motor operation. This may cause serious injury by oscillating the blade. If the operator is not sure about the safe lock mechanism, batteries must be removed to avoid motor operation.

⚠️ Dermatome blades are sharp materials. Handle the blades carefully. Do not hold the blades from sharp edges.

After ensuring safety conditions. Blades can be changed easily.

First push the blade cover release buttons [4] as seen in the figure above.

Then open the blade cover [3] and insert the blade [14]. Note that the blade can be inserted only one side. If not correctly inserted, blade guide pegs [6] will not pass through the holes of the blade.

Finally close the blade cover by pushing the buttons.

⚠️ To ensure the blade is inserted correctly try to operate the Dermatome in a free position not on a patient.

Inserting the Battery

⚠️ Dermatome batteries [18] are not sterilizable. Any attempt to sterilize or inappropriate use the batteries will damage them. To accomplish the sterilization of the dermatome, a special apparatus called sterile funnel (battery loading cover) is used.
Hold the dermatome vertically as the battery side get upwards.

Insert the sterile funnel [15] to outside of the hole.

Insert the battery [18] downside to the hole. Note that the guide on the battery must meet the guide inside the dermatome.

Finally remove the sterile funnel and close the battery side of the dermatome with the cover [16].

**Removing the Battery**

Similarly as inserting the battery but in reverse order the battery can be removed.

First open the cover and hold the dermatome vertically as the battery side get downwards.

Using your hand slowly get the battery outside by using gravitational force.

If needed slightly shake to remove the battery.

**Cutting thickness and width adjustment**

Cutting thickness can be adjusted by using the lever setting wheel [10] and can be observed from dial wheel [11]. The lever setting wheel has a self-lock mechanism to avoid from unwanted changes in the thickness. To unlock and adjust; push the wheel to the right by using your thumb or other hand and slide it upwards or downwards until it gets to the desired thickness.
Cutting width can be adjusted by using the flaps [8] on the front side of the dermatome.

Flaps are opened or closed by hand according to the desired cutting width. Simply rotate the flaps to open or close.

Adjusting the operating speed and using safe lock mechanism

The dermatome’s blades oscillating frequency is adjusted by pushing and releasing the trigger [12].

Safe lock mechanism [13] prevents from unwanted operating of the dermatome. It locks the trigger.

To lock; slide the mechanism towards “ON” article until the “OFF” article appears. Hereafter the trigger will not operate the motor.

To unlock; pull the trigger and slide the mechanism towards “OFF” article until the “ON” article appears.
Cleaning – Disinfection – Sterilization

It is important to have all apparatus of the system to be cleaned after each use.

It is recommended to use clothing or soft plastic end brush for manual cleaning. The organic materials accumulated at the tools must be thoroughly cleaned after the operation. The main frame of the dermatome must not be submerged into the liquid during cleaning. In this sense, the dermatome must not be cleaned by ultrasonic cleaning machine.

Dermatome must not be cleaned with corrosive active substances such as Sodium hypochlorite (NaOCl), Sodium hydroxide (NaOH), Formic Acid (HCOOH) or Caustic Soda. Moreover, acidic solutions must not be used as disinfectant.

20 min. at 121°C or 5 min. at 137°C conditions are adequate for sterilization.

The active gears within the dermatome must also be lubricated once per two years, depending on the frequency of usage of the product. (This process should be done by technical service personnel)

The active parts must freely move as a result of lubrication.

Servicing and Contact Information

AYGÜN shall only be responsible from the reliability and efficiency of the products only if the spare parts provided by AYGÜN are used for repair purposes and only if assembly, expansion, recalibration, maintenance or modifications are performed by individuals authorized by AYGÜN. The servicing addresses are as follows:

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Fax:    + 90 362 266 98 44
aygun@aygun.com http://www.aygun.com
Dermatome Attachments and Accessories Control Before Usage

AYGUN Dermatome surgical motor systems should be controlled and inspected by responsible personnel for complete set with suitable attachments. Table below shows accessories and attachments for battery operated dermatome complete set.

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Description</th>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>M10-100</td>
<td>Dermatome Handpiece</td>
<td>Required (Battery and Electrical Usage)</td>
</tr>
<tr>
<td>M10-102</td>
<td>Rechargeable Battery</td>
<td>Required (Battery Operated Usage)</td>
</tr>
<tr>
<td>M10-103</td>
<td>Charger Unit For Two Batteries</td>
<td>Optional (Battery Operated Usage)</td>
</tr>
<tr>
<td>M10-104</td>
<td>Battery Loading Funnel</td>
<td>Required (Battery and Electrical Usage)</td>
</tr>
<tr>
<td>M10-130</td>
<td>Basket with Stand</td>
<td>Optional (Battery and Electrical Usage)</td>
</tr>
<tr>
<td>M7-105</td>
<td>Dermatome Blade x 10 pieces</td>
<td>Required (Battery and Electrical Usage)</td>
</tr>
<tr>
<td>M10-112</td>
<td>Power Supply for Direct Corded Use</td>
<td>Optional (Electrical Usage)</td>
</tr>
<tr>
<td>M10-113</td>
<td>Power Cord for Direct Corded Use</td>
<td>Required (Electrical Usage)</td>
</tr>
<tr>
<td>M10-105</td>
<td>Power Supply and Charger Unit for Two Batteries</td>
<td>Optional (Battery and Electrical Usage)</td>
</tr>
</tbody>
</table>
### Troubleshooting:

<table>
<thead>
<tr>
<th>Malfunction</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dermatome cannot be assembled</td>
<td>The apparatus are not placed correctly</td>
<td>Read the instruction for use manual thoroughly and perform the assembly correctly</td>
</tr>
<tr>
<td></td>
<td>The apparatus are incompatible</td>
<td>Refer to the relevant product catalogue and review the system requirements</td>
</tr>
<tr>
<td></td>
<td>There is corrosion at the tools due to wrong sterilization or disinfection application</td>
<td>Please contact with Aygün representative</td>
</tr>
<tr>
<td>While in operation, the dermatome generates excessive noise and vibration</td>
<td>There is corrosion at the tools due to wrong sterilization or disinfection application</td>
<td>Please contact with Aygün representative</td>
</tr>
<tr>
<td>Motor works but the blade does not cut</td>
<td>The blade is not placed properly</td>
<td>Check the assembly stages from the instructions for use manual and review the system</td>
</tr>
<tr>
<td></td>
<td>The blade is dull or becomes corroded after wrong sterilization process</td>
<td>Replace the blade or contact with Aygün representative</td>
</tr>
</tbody>
</table>