

 **Trimmer**
HSS-TR



USER MANUAL

Dear customer,

Thank you for choosing a product from the Wassermann range. Wassermann Dental-Maschinen incorporates the highest standards of quality and the latest technology. In order to enjoy maximum performance and years of trouble-free operation, please read this user manual carefully before you connect this device and start work, and operate the device according to the recommended guidelines. The operation safety and the functionality of this device can only be guaranteed if you follow both the general safety guidelines and the applying laws to prevent accidents as well as the precautions given in this user manual. We are not liable for any damages which occur due to inappropriate usage or faulty operation of this device.



Make sure that anyone using this device has read and understood this user manual.

Keep this user manual in a safe place where it can be referred to as required at any time.



The unit complies with the relevant EU guidelines.



The unit is subject to the EU guidelines 2012/19/EU (WEEE Directive).

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1 Features

- versatile, powerful dry trimmer
- large suction connection, guarantees better suction performance
- multiple expansion options
- the grinding attachment KMS can be delivered also on swiss- and EOS-version
- high speed - 3000 min⁻¹
- very powerful, maintenance-free motor
- sturdy, oxidation-free bench
- large work section 13.5 x 10.5 cm

2 Safety Symbols used in this Manual



Warning!

This is a warning of risk situations and dangers.

Failure to observe this warning could be life-threatening. These warnings has to be observed.



Information!

This symbol draws your attention to specific features that has to be observed.

3 Safety Guidelines

Configuring and operating this equipment requires **precise knowledge** and **observance** of the instructions in this **user manual**. The equipment is designed only for its intended application.



WARNING:



- Servicing and repairs should be carried out only by authorised specialists.
- Before you carry out any cleaning or maintenance work, disconnect the power plug and prevent the motor from restarting accidentally. You should also disconnect the water line.
- Always wear protective goggles before working on the grinding disc.
- Electric motors have dangerous, high-voltage rotating parts. Incorrect usage or inadequate maintenance could endanger personnel and equipment.
- Any work on the motor should be carried out only by qualified service personnel.
- Allow the condensers time to discharge before opening the unit.
- When working on the unit, wear close-fitting clothing and roll sleeves inward only. Do not wear gloves.
- Wear a hair net (or similar) if you have long hair.
- Do not wear rings, chains, bangles or similar jewelry when working with the **HSS-TR**.



The unit needs a separate power connection for operation.

Make sure that the equipment is connected to the correct power source.

Connect the unit directly to its own wall socket.

DO NOT use any extension cable and/ or a multi-socket that is also used by other electrical appliances.

3.1 Potential Dangers



Risk of injury: The trimmer's rotating parts and the grinding disc are dangerous.

4 Responsibility for Operation or Damage

The responsibility for operating the device lies exclusively with the owner or user if said device is incorrectly serviced, maintained or altered by persons not employed by an authorised dealer or if the device is used in a manner contrary to its specified purpose. The unit has to be maintained and operated in accordance with this user manual. Wassermann Dental-Maschinen GmbH is not responsible for damage arising from the **nonobservance** of these instructions.

Warranty and responsibility provisions contained in the sales and supply conditions of Wassermann Dental-Maschinen GmbH are not extended by these instructions.



Responsibility for the product becomes void if alterations are made to it by third parties or if non-approved parts are installed. Only original WASSERMANN parts should be used. If any damage results from the installation of a non-approved disc, responsibility lies with the person installing that spare disc.

If diamond grinding discs are used, serious wear will result from grinding embedded materials and metals. We will be in no way responsible in this case.

5 Application

The **HSS-TR** plaster model trimmer is used in dental laboratories and is designed only for grinding (trimming) absolutely dry and set plaster models. Otherwise, the grinding disc may become clogged, or the suction power of the connected extraction system will decrease significantly

To prevent damage to the trimmer and/or to the grinding disc, it has to be used only with plaster. Otherwise, the grinding disc will quickly lose its sharpness and cutting speed.

Only use the device for this type of application.

6 Before Starting

6.1 Transport

Before transporting the unit, ensure that it has been unplugged from the power socket. Make sure that it is packed correctly in order to avoid accidental damage.

 Be sure to check for any transport damage when unpacking the goods. Note down any damage if found.

6.2 Storage

If the unit is to be stored, even for a short time, its location can have a significant effect on its operation. The location should be dry, well-ventilated and free of vibrations. It is important for the unit to be seated on a wooden base and to be kept at a constant temperature. The unit must not be stored or set up in the open air. If the unit is to be stored for an extended period, protect it from moisture and dust.

7 Installation/ Start-up

7.1 Installation

Open the box, remove the packing materials, and carefully lift out the device and accessories. Check the included accessories.

 Before start-up, be sure the device reaches room temperature.



The unit needs a separate power connection for operation.

Make sure that the equipment is connected to the correct power source.

Connect the unit directly to its own wall socket.

DO NOT use any extension cable and/ or a multi-socket that is also used by other electrical appliances.

7.2 Location



The device has to stand horizontally on a steady and even surface.



Do not install the unit outdoors or in places without proper ventilation.



Install the device in a place where it will not block the working area and the functionality (take the dimensions into account). When you set up the unit, make sure that the grinding disc is accessible and that the unit is close to a plaster separator.

The device should be set up on a solid and stable base if possible. Make sure that the device is secured against unintentional movement. Set up the suction in the immediate vicinity of the dry trimmer to avoid long suction paths.

7.3 Suction hose

The suction hose should always be routed so that it is as straight as possible. There should be no kinks in the hose and the path between the **HSS-TR** and the suction device (**we recommend the SG Economy, see accessories**) is as low as possible.

Finally, insert the power plug into the socket, making sure that the mains and the unit operate on the same voltage.

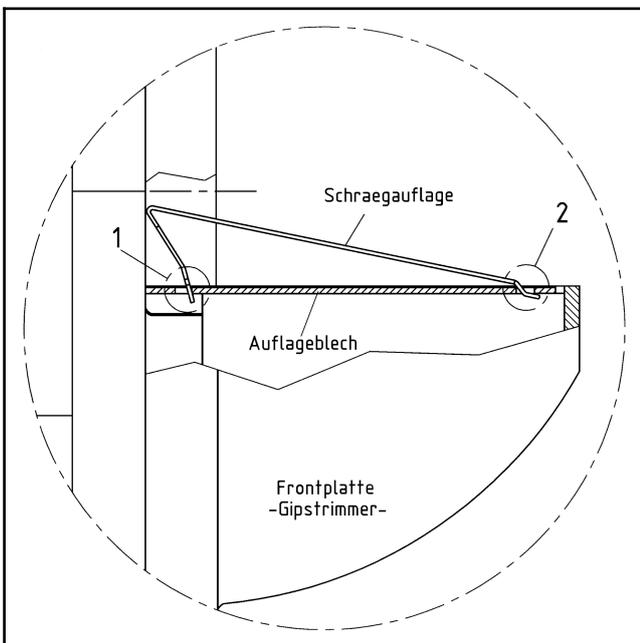
8 Mounting

8.1 Installing the Angled Mount

If required, the angled mount is just clamped in position on the **HSS-TR**. Please observe the following instructions.



Ensure that the mount is placed correctly in position. It should be installed in accordance with the following diagram.



When installing the angled mount, ensure that positions 1 and 2 are correctly located on the base.

Schraegaufgabe – angled mount

Auflageblech – base

Frontplatte – front plate

Gipstrimmer – plaster trimmer

9 Supports

Aside from the item described in “8.1 Installing the angled mount”, the **HSS-TR** plaster trimmer does not require any other support mechanisms.

10 Operation

10.1 General Operating Instructions

All instructions for using the unit, whether in verbal or written form, are based on our own experience and experimentation and can only be regarded as guidelines.

-  After switching on the unit, wait a few seconds for the motor to come up to speed. The full power of the motor can then be used. Never work the units to the point that the motor labours to keep turning. This could result in overloading and motor damage.

-  Only for units with a **bellows switch!**
Reset is effected in two steps:
Step 1: Switch rocker into OFF position.
Step 2: Reset circuit breaker. Main switch into ON position.
If the power supply is interrupted, the switch will go into centre position in order to prevent an uncontrolled operation of the motor when the power supply is restored.

-  It goes without saying that only completely set plaster casts should be ground. Soft plaster could lead to blockages, especially in the hoses.

11 Troubleshooting

Fault	Cause	Solution
Excessive development of dust in the work area	Solenoid valve defective suction hose bad misplaced / dust bag full	Check it
Motor does not run	Only for units with a bellows switch: If the power supply is interrupted, the switch will go into centre position	Reset is effected in two steps: Step 1: Switch rocker into OFF position. Step 2: Reset circuit breaker. Main switch into ON position.



If the above recommendations do not solve the problem, contact your dental depot or our service department.

12 Care and Maintenance

12.1 Cleaning



Before cleaning or servicing the unit, ensure that it is disconnected from the mains power and cannot be switched on again accidentally.

Open the unit only after the disc has come to a complete stop.

The identification plate has always to be kept in easily legible condition and has not to be removed.



Remove external dirt from time to time with a damp cloth. Use only cold cleaners to avoid damaging the paintwork or removing the lettering. The equipment should be cleaned at regular intervals to ensure trouble-free operation.

It requires only normal cleaning (sponge, damp cloth, mild detergent) and no further chemical additives.

12.2 Maintenance

The **HSS-TR** plaster-cast grinder is a low-maintenance unit. However, when opening the disc chamber for cleaning or to change the disc, be sure to clean the sealing surfaces and re-coat them with water-insoluble grease.

12.3 Repairs



Servicing or repairs to the unit has only to be carried out by qualified technicians. Only original spare parts are to be used. Responsibility for the product is voided if unauthorised persons alter it or if inappropriate components are installed.

12.4 Spare Parts

If necessary please contact our service hotline phone.

12.5 Service Hotline 0049 (0)40 730 926 -50

12.6 Spare Grinding Discs

Spare grinding discs are always supplied with a tube of grease for sealing the disc chamber - Spare diamond grinding discs are always supplied with an extractor for the old disc in addition.



Installing a spare disc on an existing disc mounted in the unit, regardless of its origin or model type, is strictly prohibited by Wassermann.



Warning!

The use of diamond grinding discs to grind embedded material and metals will result in excessive wear on the blade. We assume no responsibility if this occurs.



When using spare discs, be sure to follow the instructions supplied when changing discs.

12.7 Scope of Delivery/ Accessories

HSS-TR incl. grinding disc	Item no.:
incl. Dia-Quick grinding disc (partly diamonded)	163990

Incl. in delivery	Item no.:
Inclined support	168037

Accessories	Item no.:
Suction-unit SG Economy*	140970
Spare Dia-Quick grinding disc (partly diamonded), incl. grease	162063
Spare corundum grinding disc, incl. puller and grease	168024
Spare foil grinding disc, fine, 1Set = 4 pieces, incl. grease	162013
Spare foil grinding disc, fine, 1Set = 4 pieces, incl. grease	162023
Sealing grease for trimmer, 25 ml	629002
Puller for grinding disc change	164026
Orthodontic accessories for producing 3D orthodontic models	
Orthodontic model table KMS according to Begg	168140
Laser light guide for model table, cpl.	168120
Orthodontic template for the upper jaw (to grind the lower jaw/tuber level)	164034

The orthodontic grinding table KMS can be delivered also in Swiss and EOS version.



* SG-Economy 140970

12.8 Warranty

 The warranty period for our equipment is 12 months. If faults occur within the warranty period, contact your dental depot or get in touch directly with our service department.

Your equipment should only be operated in perfect condition. If faults occur which could harm operators or third parties, the unit should not be used until it has been fixed.

This warranty does not cover damage caused by improper use, external mechanical causes, transport damage or interference with the unit by unauthorized persons.

Warranty, excluded wear and tear parts.

13 Technical Data

HSS-TR	Item no.: 163990
Voltage	220–240 V / 50/60 Hz
Power consumption	4.6 A
Output	1000 W
W x H x D	330 x 335 x 410 mm
Weight	19.8 kg
Sound level	≤ 70 dB (A)
Speed	3000 min ⁻¹
Duty	S6 - 40 %
Table dimensions projecting	120 mm

Other voltages on request.

Noise transmission measured within a circumference of 1 metre around and 1.6 metres above the unit was 69 db (A), averaged over 50% idling, 30% mid-load and 20% full load.

This level was determined in accordance with DIN 45635 Part 1.

 Technical changes reserved.

14 Disposing of the Unit

The unit has to be disposed by an authorized recycling operation. The selected company has to be informed of all possibly health-hazardous residues in the unit.

14.1 Information on Disposal for Countries within the EU



To conserve and protect the environment, prevent environmental pollution and improve the recycling of raw materials, the European Commission adopted a directive that requires the manufacturer to accept the return of electrical and electronic units for proper disposal or recycling.

Within the European Union units with this symbol should not therefore be disposed of in unsorted domestic waste.

For more information regarding proper disposal please apply at your local authority.

15 EU Declaration of Conformity

in accordance with 2014/35/EU (Low Voltage Directive) and 2014/30/EU (Electromagnetic Compatibility Directive) and 2006/42/EC (Machinery Directive) and 2011/65/EU (RoHS Directive)

Manufacturer: **W A S S E R M A N N** Product description: Trimmer for dental applications
Dental-Maschinen GmbH
Rudorffweg 15-17
21031 Hamburg
Germany

Model: HSS-TR incl. Dia-Quick grinding disc Item no.163990

Applicable standards: DIN EN 61010-1
DIN EN 61000-6-3
DIN EN 61000-6-1
DIN 45635-1
DIN EN 60335-1

Hiermit wird bestätigt, dass die oben bezeichnete Maschine den genannten EU-Richtlinien entspricht. Diese Erklärung wird ungültig, falls die Maschine ohne unsere Zustimmung verändert wird.

This is to confirm that the above mentioned machine complies with the described EU guidelines. This declaration becomes invalid if the machine is modified without our approval.

Cette machine est conforme aux normes en vigueur d'Union européenne. Cet avis est nul et non avenant si cette machine est modifiée sans notre accord.

Esta máquina, anteriormente mencionada, cumple con los límites requeridos por el reglamento UE. Ahora bien, esta declaración quedará invalidada en caso de realizar modificaciones al aparato sin nuestra aprobación.

Hiermee wordt bevestigd dat bovengenoemde machine voldoet aan de voorgeschreven EU normen. Deze verklaring verliest geldigheid als er zonder onze uitdrukkelijke toestemming wijzigen aan de machine worden aangebracht.

Place, date: Hamburg, 2023-03-22

Company stamp :



Signature: _____
Sven Wassermann
(Managing Director)

Notes:

Notes:



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