

Suction Unit

Timobil

Mobil Suction Table with Motor Handpiece



SERVICE 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 service 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 service 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 service manual.

Keep this service 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).

Company address:

Wassermann Dental-Maschinen GmbH

Rudorffweg 15-17

21031 Hamburg, Germany

Phone : +49 (0)40 730 926 -20/ -24 Fax.: +49 (0)40 730 37 24

export@wassermann-dental.com

www.wassermann.hamburg

www.facebook.com/WassermannDentalmaschinen

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1 Features

- Mobile suction unit for the dentist's office and the dental laboratory
- Maintenance-free and almost free from wear
- Long durability because of the brushless motor
- Its four rollers mean it is easily moved
- The electrical cable rolls up automatically into the unit
- The Timobil also has a sturdy handpiece motor: The speed range is between 1,000 – 40,000 rpm and is infinitely adjustable using a foot pedal
- Turning the casing up to the stop opens and closes the chuck
- The unit has overload protection
- Works with the low-pressure principle: No heat education, no cooling of hands, high suction volume, virtually noiseless operation, runs quietly, suitable for continuous operation
- With robust and ergonomic equipment engine: Strong torque, high rotation accuracy and brushless motor
- Suction unit can be started automatically by the motor handpiece
- High protection because of run-on device of suction unit
- High quality filterbag, easily to be changed
- Detachable safety screen in front of the work area, acrylic glass
- The extractor hood with or without illumination (available as accessories) can be retrofitted

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 ***service manual***. The equipment is designed only for its intended application.



WARNING:

Servicing and repairs should be carried out only by authorised specialists.

Disconnect the power plug before starting any maintenance work.



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



WARNING: Risk of injury!

You should change the tool or the chuck only after the motorised

handpiece has come to a complete stop. Do not touch the rotating tool.

3.1 Duty S6 (4 min / 10 min)


The duty of **S6 (4 min / 10 min)** recommends a loading period of 4 minutes and a pause of 6 minutes in order to prevent an overheating of the motor handpiece.

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 service 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.

4.1 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.

5 Application

The **Timobil** is a stand-alone dust extractor with an integrated handpiece for use in the laboratory and in the field. It is especially useful for cutting and trimming dental appliances while sitting on a bench stool.

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

The unit location is very important when it comes to workplace safety, even if it is only to be set up there for a short period. The room should be dry, well ventilated and vibration-free. An even temperature and wooden supports also help. The unit should not be stored or set up outdoors. If the unit is to be stored for an extended period, protect it from moisture and dust.

6.3 Installation

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

The accessories are located in the unit, under the filter.

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



Install the device in a place where it will not block the working area and the functionality (take the dimensions into account). Make sure that there are about 10 cm of free space on each side to guarantee air circulation (heat dissipation).



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

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

7 Installation/ Start-up

1. Pull the cable out slowly – it will stop at the desired length.
2. Pull the cable out quickly – it will roll back fully onto the drum.
3. **Finally**, insert the power plug into the socket, making sure that the mains and the unit operate on the same voltage.
4. Turn on the green rocker switch.

The unit has an automatic start, that is, the foot control turns the extractor on automatically. The extractor continues running for about 15 seconds after you have finished working.

The toggle switch at the front is used to set **Continuous** operation.

8 Operation

8.1 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.

9 Troubleshooting

Fault	Cause	Solution
Little or no extraction	Filter bag full	Change filter bag
No power	Microswitch wrongly adjusted	Reset microswitch. Contact our Service Department,
Motor switches off	Overload protection	Allow unit to cool
Motor does not run	Chuck mechanism open	Close chuck mechanism
Little or no extraction	Filter bag full	Change filter bag



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

10 Care and Maintenance

10.1 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.

10.2 Changing the Filter

The unit has a one-way filter bag, which is easy to change when it is full. Undo the locks on the right and left and remove the cover. You can now replace the full bag with a new one.

Change the filter regularly to guarantee trouble-free dust extraction. It is time to change the bag if the extraction power becomes noticeably weaker and/or if dust collects in the extractor area.

10.3 Spare Parts

If necessary please contact our service hotline phone.

10.4 Service Hotline 0049 (0)40 730 926 -20/ -24

10.5 Scope of Delivery/ Accessories

Included in delivery:

- Motor handpiece
- Rest for handpiece
- Safety screen, acrylic glass
- Micro fine dust filterbag (yellow), dust class M

Accessories	Item no.
Extractor hood	149130
Extractor hood with illumination	149140
Spare filterbag for micro fine dust (dust class M), 1 set = 4 pieces	611010
Spare filterbag for plaster (class 1 / class 2), 1 set = 4 pieces	611018
Storage tray	149010

10.6 Cleaning



Disconnect the power plug before starting any maintenance work.

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 some form of cold cleaner.

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.

10.7 Cleaning and/or Servicing the Chuck



WARNING: Risk of injury!

You should change the tool or the chuck only after the motorised handpiece has come to a complete stop. Do not touch the rotating tool.

1. Open the chuck.
2. Unscrew the plastic tip by turning it manually to the left.
3. Insert the chuck key fully into the chuck.
4. Hold the shaft firmly with an adjustable wrench.
5. Undo the chuck by turning the chuck key to the left.
6. Use the brush to clean the handpiece shaft inside and out. Lubricate the shaft bore outside the chuck with a couple of drops of oil.
7. Insert the chuck by hand.
- 8. Make sure the chuck mechanism is open.**
9. Hold the shaft with the adjustable wrench and use the chuck key to screw the chuck in fully.

11 Technical Data

Timobil	Artikel Nr.: 149999
Voltage	220–240 V / 50/60 Hz
Power consumption	1.5 A
Plug socket power consumption max	8 A
Output	350 W
W x H x D	530 x 900 x 480 mm
Weight	28.1 kg
Suction capacity	500 m ³ / h (free-blowing)
Control unit output	160 W
Handpiece motor output	95 W
Handpiece motor speed	1000 – 40 000 min ⁻¹
Duty	S6 (4 min. / 10 min.)

Other voltages on request.

The noise level of the unit amounts to ≤ 70 dB (A).



Technical changes reserved.

12 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.

12.1 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 authorities.

13 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 Dental-Maschinen GmbH Rudorffweg 15-17 21031 Hamburg Germany	Product description:	Suction Unit for dental applications
Model:	Timobil Timobil short version	Item no.:	149999 149996
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 wijzigingen aan de machine worden aangebracht.

Place, date: Hamburg, 2020-02-28

Company stamp :

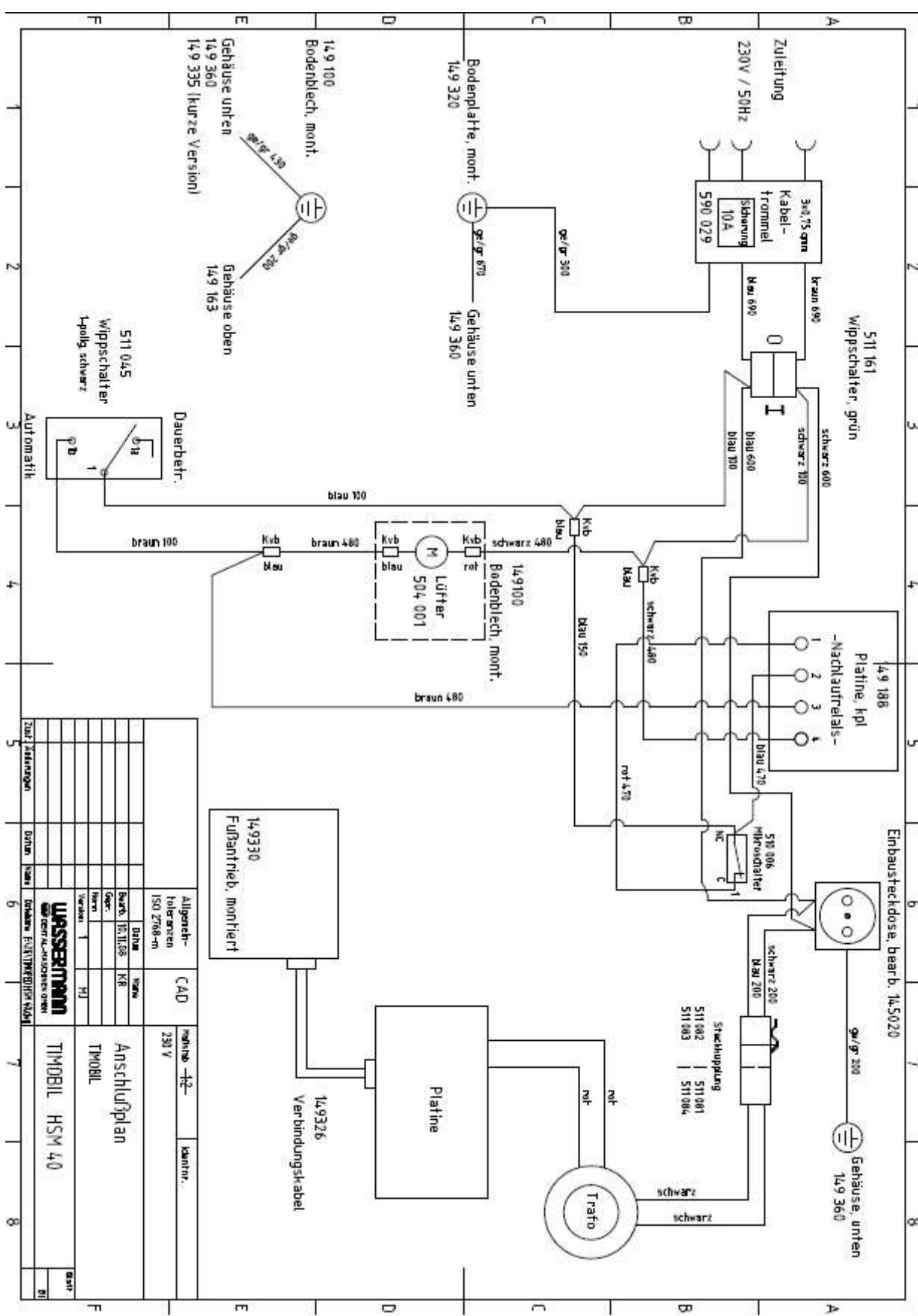


Signature: _____
Sven Wassermann
(Managing Director)



WASSERMANN
DENTAL-MASCHINEN GMBH
Rudorffweg 15-17 · 21031 Hamburg

14 Wiring Diagram





Wassermann Dental-Maschinen GmbH
Rudorffweg 15–17 · 21031 Hamburg · Germany
Phone: +49 (0)40 730 926-20/ -24 · Fax: +49 (0)40 730 37 24
export@wassermann-dental.com · www.wassermann.hamburg



/WassermannDentalmaschinen