

## Suction unit

### **SG-1/1**

Single Workbench Suction Unit



**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).

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## 1 Features

- Single workbench suction unit according to the low pressure principles
- Multifunctional deployment – from polishing trough to fine blasting units
- Maximum flexibility via extremely compact construction design
- Incl. plug for elaboration machines or polishing motors
- Virtually noiseless operation, no cooling down of the hands
- Suitable for continuous operation
- Low wear-and-tear and nearly maintenance-free
- Comprehensive range of special accessories available, recommended special accessories: automatic switcher AS-100 for the automatic hooking up suction units

## 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.

### 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.

## 5 Application

The SG 1/1 suction unit can be installed in various locations such as a dental-laboratory workbench or a polishing trough. Its suction action combines a maximum quantity of air and a low air speed and is dedicated to extracting suspended dust particles, which could enter the lungs. The advantages are virtually silent operation of the fan motor and an overall low noise level, thanks to the slow flow speed of the air drawn in. This slow air speed means that your hands do not get cold, even after a long time working at the suction inlet.

The SG 1/1 also features an additional socket, allowing you to connect one other device, which then starts to operate as soon as the suction is turned on.

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 Installation

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

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.

## 6.3 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.

## 7 Installation/ Start-up



**Before** starting the unit, connect up the following:

1. Take the cable from the filter under the cover.
2. Plug the unit into the mains.

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

## 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.

Use the rocker switch on the cable to switch the unit on and off.

## 9 Troubleshooting

 Contact your dental depot or our service department.

## 10 Care and Maintenance

### 10.1 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.



## **10.2 Maintenance**

### **10.2.1 Changing the Filter**

This equipment uses a one-way, micro fine filter bag, which must be replaced once it is full of dust.

To do so, open the catches right and left, remove the cover, take out the filter bag and then remove the packaging from the replacement bag. Insert the new filter and close the cover.

You will need to change the filter regularly to ensure trouble-free dust removal. It needs replacing at the latest when the suction becomes laboured or the fine dust filter changes colour.

## **10.3 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.

## **10.4 Spare Parts**

If necessary please contact our service hotline phone.

## **10.5 Service Hotline 0049 (0)40 730 926 -20/ -24**

## 10.6 Scope of Delivery/ Accessories

Included parts	Item no.
Supply line with switchable shock proof plug	140022
Micro fine dust filterbag	- - -
Accessories/Spare parts	Item no.
Spare filterbag for micro finedust (dust class M), 1 set=4 pieces	611010
Spare filterbag for plaster (class 1 / class 2), 1 set=4 pieces	611018

## 10.7 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.

## 11 Technical Data

<b>SG-1/1</b>	<b>Item no.: 140995</b>
Voltage*	220–240 V / 50/60 Hz
Power consumption	0.75 A
Plug socket power consumption max.	8 A
Output	170 W
W x H x D	260 x 400 x 330 mm
Weight	9.9 kg
Sound level	59 dB(A)
Suction capacity	500 m <sup>3</sup> /h (free-blowing)

\*Other voltages on request.

The noise level of the unit amounts to  $\leq 70$  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 authority.

**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**      Product description: Suction Unit for dental applications  
Dental-Maschinen GmbH  
Rudorffweg 15-17  
21031 Hamburg  
Germany

Model: SG 1/1 Suction Unit      140995

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, 2020-02-28

Company stamp :

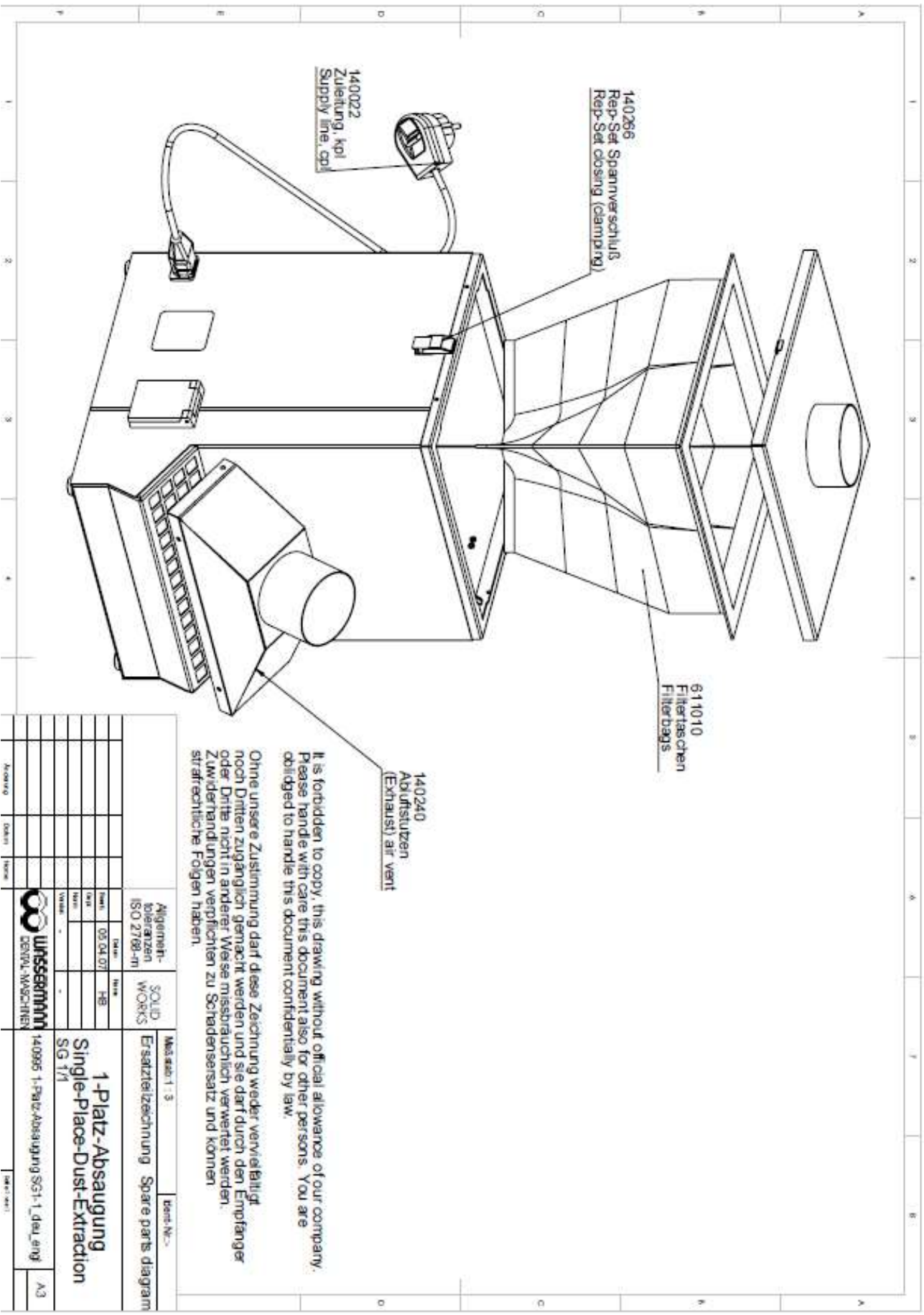


Signature: \_\_\_\_\_  
Sven Wassermann  
(Managing Director)



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

**14 Spare Part Diagram**



It is forbidden to copy, this drawing without official allowances of our company. Please handle with care this document also for other persons. You are obliged to handle this document confidentially by law.

Ohne unsere Zustimmung darf diese Zeichnung weder vervielfältigt noch Dritten zugänglich gemacht werden und sie darf durch den Empfänger oder Dritte nicht in anderer Weise missbräuchlich verwendet werden. Zuwiderhandlungen verpflichten zu Schadensersatz und können strafrechtliche Folgen haben.

Allgemein- spezifikationen ISO 2768-M		SOLID WORKS		Masstab: 1:3		Techn. Nr.:	
Bestell-Nr.	05.04.07	HB		Ersatzteilzeichnung Spare parts diagram			
 WASSERMANN CENTRAL-MASCHINEN				<b>1-Platz-Absaugung</b> Single-Place-Dust-Extraction SG 171			
140995 1-Platz-Absaugung SG1-1_dust_eng				A3			

Notes:





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