

● **Automatic starting device
AS-100**



● 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.

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1 Features

Automatic starting device AS-100 for the automatic start of suction units, for example during the operation of finishers.

2 Safety guidelines

2.1 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.

2.2 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.

Disconnect the power plug before starting any maintenance work.



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

2.3 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.

3 Application

This device makes it unnecessary to switch dust extractors off and on. When the finisher or polisher motor is switched on, the attached dust extractor starts operating automatically. Thus, dust extraction is only ever on when the other equipment is operating. The set after-running time (15 sec.) means that any short work interruptions are ignored.


It also ensures that any free dust is extracted when the work finishes.

Only use the device for this type of application.

4 Before starting


4.1 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.

4.2 Installation

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

 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.

4.3 Storage

If the unit is to be stored for an extended period, protect it from moisture and dust.

5 Installation / Start-up

 Please note that the AS-100 has to be readjusted to suit each motor. (see next page: 6.2 Adjusting the potentiometer).


Factory setting:

The AS-100 is adjusted to the HSM-40/-50 units at 7000 min⁻¹.

1. Insert the power plug into the socket, making sure that the mains and the unit operate on the same voltage.
2. Insert the second connecting cable of the AS-100 with the suction unit (power supply).
3. Insert the power plug of the finisher into the socket of the automatic starting device.
4. To set the operating state, please switch on the automatic starting device (green main switch).
5. By switching on the finisher also the suction unit switches on.

6 Operation

6.1 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.

6.2 Adjusting the potentiometer

The potentiometer is adjusted through the hole at the rear:

1. Switch the motor on and off.

The suction unit switched on for a short moment.

Please wait, if the suction unit switched off after around 20 seconds..

2. If not, please react as follows:

- Turn the potentiometer anticlockwise up to the stop so the dust extractor does not switch on.
- Start the motor and turn the potentiometer slowly clockwise until the dust extractor starts (in addition please pay attention to the LED control).



Next to the adjustment hole is a red LED light for easier adjustment of the optimum switching point. Approaching the switching point, the light begins to flash slowly. It is important to turn further slowly until the optimum switching point is achieved. It is achieved when the LED blinks quickly or light permanently.



Please note that the AS-100 has to be readjusted to suit each motor.

7 Troubleshooting

Fault	Cause	Remedy
Controller does not switch on.	Potentiometer set incorrectly	Controller needs adjusting



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

8 Care and maintenance

8.1 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.

8.2 Maintenance

The unit does not require any servicing. Just make sure that the device is kept clean.

8.3 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.

8.4 Spare parts

If necessary please contact our service hotline phone:
 0049 (0)40 / 730 92 6-0

8.5 Scope of delivery / Accessories

Included parts:	Item no.
Automatic starting device AS-100	143100

8.6 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.

9 Technical data

Item no. 143100 Automatic starting device AS-100

Voltage	220-240 V / 50/60 Hz
Max. starting current, dust extractor	5 A
Max. consumption, finishing motor	10 A
Dimensions (W incl. Screws x H without cable x D incl. On/Off switch):	130 x 155 x 95 mm

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



The technical data are subject to change without prior notice.

10 EC Conformity Certificate

in accordance with 2006/95/EG (low-voltage guidelines) and 2004/108/EG (EMV guidelines) and 2006/42/EG (machinery guidelines)

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

Model: Automatic starting device AS-100 Item no. 143100

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

Hiermit wird bestätigt, dass die oben bezeichnete Maschine den genannten EG-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 EC rules. This declaration becomes invalid if the machine is modified without our approval.

Cette machine est conforme aux normes en vigueur de la Communauté Européene. 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 EC. 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, 04.12.2012

Company stamp:



Signature: _____

Wilfried Wassermann
(Managing Director)

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