

# Hydraulic Press

## WW-33

2-4 flasks

1-3 flasks (Fig.)



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.

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## 1 Features

The **WW-33** hydraulic press, with continuous pressure up to 6 tonnes, presses caps individually and appropriately for the material used. After ending one pressing, it is immediately ready for further use as its solid plastic piston returns automatically once the valve has been opened. A quality pressure gauge which shows the pressure achieved with great accuracy, is recessed into the housing and is thus protected from dirt. The **WW-33**'s oxidation-free piston (plastic), tensile steel construction (no risk of breaking), and sturdy plastic-coated housing all contribute to the unit's long service life. As the distance between supports is 152 mm, the press is also suitable for larger caps (IVOCAP) and stirrup pieces.

### SPECIAL DESIGN:

The **WW-33** hydraulic press is also available with longer supports for 4 caps.

- Break-proof hydraulic press in drawn steel for pressing 1–3 or 2–4 flasks
- Pressure infinitely adjustable up to 6 tonnes
- Rust-proof piston made of super-strong material
- Automatic piston return after opening of valve
- Plastic powder coated housing
- Quality pressure gauge with precision display recessed in housing
- Distance of columns of 152 mm to allow use of larger flasks and flask clamps
- High stability
- Integrated oil level display

## 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.

## 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

With a continuous working pressure of up to 6 tonnes, the **WW-33** hydraulic press is used to press caps individually and in accordance with the material used.

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).



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

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

## 7 Installation/ Start-up



Please remove the safety packing as follows:

- Take the pump lever out of the union piece.
- Undo the bolt and remove the red safety packing. Insert the lever and secure it with the bolt.
- Screw the ball on the end of the lever.
  
- Centre the cap on the piston to guarantee even pressure distribution.
- Bring down the piston on the cap.




**The usual pressure is between 2.5 and 5 tonnes. This is shown in the green area on the pressure gauge. To avoid damage to the cap and the press, do not pump beyond the zone on the pressure gauge.**


## 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.

1. Prepare cap as per Point 7.
2. Turn the pressure valve (black knob on housing) to CLOSED.
3. Now increase pressure with the lever, staying within the permissible zone on the pressure gauge (green zone).
4. If necessary, increase the pressure to the maximum, always staying within the permissible zone on the pressure gauge (green zone).
5. Once the pressure remains steady, it can be released (valve opened).
6. Raise the piston and remove the cap.

 **The gauge will not be accurate while the pressure is being distributed through the plastic. *Full pressure can only be achieved by pumping on the lever several times with appropriate pauses in between. Once the cap is fully enclosed, the pressure remains steady.***

 **The return spring on the piston takes it back *automatically* to its zero position. It has a stroke of about 12 mm. As soon as it reaches this level, it is limited *automatically*. No more pressure is possible.**

 **The oil level should be monitored on the gauge when the piston is down. If necessary, add hydraulic oil. A black vent screw is provided for this purpose. To remove (oil filler nozzle). This is located behind the left-hand support at the top of the housing. No damage can result from overfilling as the surplus oil merely flows out into the nozzle.**

 **Note: Use only SHELL TELLUS 32 hydraulic oil.**



## 9 Troubleshooting

Fault	Cause	Solution
Little or no pressure builds	Oil level below minimum and air bubble has entered system during filling	Vent press as explained below Point 9.1
Pressure drops to zero despite enclosed cap or piston rises under pressure	Dirty pressure valve	Pump strongly with newly filled oil (recommended oil)

### 9.1 Guidelines for Venting:

1. Turn press on right side and pump.
2. **Nothing?** – then remove piston as described below and fill with oil up to top edge of cylinder:
  - Undo set screw in U-piece
  - Pull lever forwards
  - Pull piston up and out of cylinder
  - Fill with oil (recommended oil)
  - Re-install in reverse order, watching out for two points:
    - Do not tip the piston
    - Do not damage the square ring



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

## 10 Care and Maintenance

### 10.1 Cleaning



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.



The piston track should be cleaned daily with a clean linen cloth and then lightly lubricated with the recommended hydraulic oil.

### 10.2 Maintenance

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

### 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.
WW-33 for 2-4 flasks	126998
WW-33 for 1-3 flasks	126999

Accessories	Item no.
Universal flask	129990
Stainless steel clamp clip for 3 flasks	129992
Stainless steel clamp clip for 2 flasks	129993
Stainless steel clamp clip for 1 flask	129994
Universal flask clamp for 3 flasks	129995
Universal flask clamp for 2 flasks	129996
Universal flask clamp for 1 flask	129997
Hydraulic oil 500 ccm	629005

## 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>WW-33, 2–4 flasks</b>	<b>Item no.: 126998</b>
<b>WW-33, 1–3 flasks</b>	<b>Item no.: 126999*</b>
W x D / D with pump lever	200 x 158 / 295 mm
Height	max. 710 / min. 540 mm max. 650 / min. 480 mm*
Distance between columns	152 mm
Distance plunger plate	max. 272 / min. 102 mm max. 212 / min. 42 mm*
Weight	16,0 kg 14,7 kg*
Working pressure	up to 6 tons
Working table	Ø 95 mm



Technical changes reserved.

**12 EU Declaration of Conformity**

in accordance with 2006/42/EC (Machinery Directive)

Manufacturer:	W A S S E R M A N N Dental-Maschinen GmbH Rudorffweg 15-17 21031 Hamburg Germany	Product description:	Hydraulic Press for dental applications
Model:	WW-33 for 2-4 flasks (special design) WW-33 for 1-3 flasks	Item no.126998 Item no.126999	
Applicable standards:	DIN EN ISO 12100		

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, 2021-04-13

Company stamp :



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



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