

**HORSE DENTAL**  
EQUIPMENT

# HYDRO JET II

INSTRUCTIONS FOR USE





## CHAPTER 1: SAFETY INSTRUCTIONS



**WARNING.** Read safety warnings and instructions.

Failure to follow safety warnings and instructions of use may result in electric shock, fire, and/or serious injury for the user.

HDE company declines all responsibility in the event of damage resulting from improper use or non-compliance with these safety instructions.

## CHAPTER 2: TECHNICAL FEATURES

<b>General features</b>		
	Overall Dimensions	10.2 x 3.5 x 23.6 in / 260 x 90 x 600 mm
	Weight	9.5 lb / 4,3 kg
<b>Pump</b>		
	Type	Diaphragm pump
	Flow Rate	adjustable from 0.22 to 0.45 gal US/min - 0,85 to 1,70 liter/min (without nozzle)
	Pressure	7 bars
<b>Battery and Charger</b>		
	Battery	Lithium Ion 14,4 Volts 2,2 Ah
	Battery Protection	No overdischarged protection
	Charger In	90-230 V AC 50/60 Hz
	Charger Out	16,8 V DC 1,3 A
	Time required to charge the battery	2 hours
<b>Autonomy</b>		2 hours with full battery charge

Those characteristics are given for information purposes only.

They are in no way contractual and may be modified for improvement purpose without prior notice.

## Product description

- |                           |                              |   |
|---------------------------|------------------------------|---|
| 1- Hydro Jet II equipment | 5- Diastema nozzle           | 8- Water tube with load                             |
| 2- Battery                | 6- Rinsing nozzle            | 9- Water Filter                                     |
| 3- Charger                | 7- Incisor nozzle (optional) | 10- Plastic water bottle (0.26 gal<br>US / 1 liter) |
| 4- Storage bag            |                              |   |



## CHAPTER 3 : DELIVERY – FIRST USE



It is essential to read these instructions carefully before using the device.

### 3.1 Battery

The battery is delivered with almost 30% of charge. Fully charge the battery before first use. Insert the battery at its intended location, on top of the equipment.

### 3.2 Tube connection

When used with a water bucket:

Equipment is delivered with a 29.5 feet / 9-meter long water tube (7).

If necessary, cut the tube to the length adapted to your use, and keep the rest of the tube as spare part.

Keep the weight (8) at the end of the pipe, and immerse it into the water bucket.

Connect the other extremity of the tube to the water filter (10).

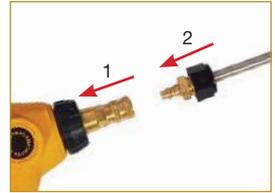
When used with the water bottle:

Fill the bottle with clean clear water.

Insert the tube (7) with the filter (10) into the bottle, and screw the black connector to the bottle.

### 3.3 Nozzle connection

To connect a nozzle at the extremity of equipment, pull on the quick coupling system (1), and insert the brass extremity of nozzle (2).



### 3.4 Ready to use

Press the trigger button to prime the pump. Release the trigger when water comes out from the nozzle. The equipment is ready to use.

## CHAPTER 4 : STANDARD USE



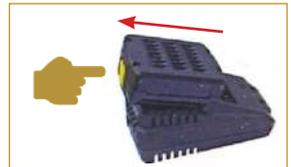
**Never operate without water, otherwise there is a risk of damaging the pump.**

### 4.1 Battery

To charge the battery :

- Insert the battery into the charger,
- Plug the charger into an electrical socket,
- LED is flashing green,
- LED lights up continuously green when battery is charged,
- Unplug the charger from electrical socket.

- To remove the battery : press the yellow button, pull and slide battery to remove it from the charger.



Only charge the battery with the original charger delivered with the equipment. Do not substitute with another charger from another brand or equipment.

To check the battery charge : push on the “On” red button on the back of the battery, and see level on the diagram :

- 3 LED lit : charge > 66%
- 2 LED lit : 33 < charge < 66%
- 1 LED lit : 11% < charge < 33%

Stop using the battery, and recharge it.



**There is no battery undercharged protection. At the end of each working day remove the battery from the Hydrojet II's socket. Failing to do this, the battery will continue to discharge, even without pressing the equipment's trigger. When the charge level drops below 33% (only 1 remaining LED lit on the battery), remove the battery and charge it.**

## 4.2 Battery charger

The charger is equipped with a protection against short-circuit, that automatically stops charging.

Red LED lights on: battery temperature is too high = unplug charger from the electrical socket, and let the battery cool down, before trying to charge it again.

Red LED flashing: charger or battery out of order = contact your Local HDE Technical Center.

## 4.3 Flow rate adjustment

To adjust the flow rate, turn the dedicated button :

- To the left to decrease flow rate,
- To the right to increase flow rate.



## 4.4 Changing nozzle

To remove the nozzle already inserted, pull on the quick brass coupling system, and at the same time pull the nozzle in the opposite direction.

To insert a new nozzle, pull on the quick brass coupling system, and insert the new nozzle (see §3.3).

# CHAPTER 5: MAINTENANCE, CLEANING & STORAGE

## 5.1 Regular maintenance

At the end of the working day, remove the tube from the bucket / bottle, pull the trigger until there is no more water coming out of the equipment. In such a way, there is no more water inside the pump, you protect the pump against frost, and avoid water leaks inside your equipment.

Once a week, unscrew the filter and clear it with clean water. Do not use any tools to brush the strainers, it is not necessary.

Thoroughly dry the different elements with a clean cloth and store them in the dedicated storage bag.



## 5.2 Battery and charger

If red and green light of the charger flashes simultaneously, it means the battery is over-discharged.

There is no chance to charge it again.

The battery needs to be exchanged for a new one.



## 5.3 Cleaning

Do not use thinner, solvent, acetone, concentrated acid or alkali, to clean the pump. Only a diluted chloride solution at 20% can be used to clear the pump.

## 5.4 Problems and maintenance

No priming or low water flow :

- Check the battery charge,
- Check both filter and strainer,
- Check that the nozzle is not blocked.

Leakage at the base of the nozzle : make sure that the brass nut is tight enough on the nozzle.

**FOR ANY PROBLEM, CONTACT YOUR LOCAL HDE TECHNICAL CENTER**

## CHAPTER 6: WARRANTY

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Please refer to general HDE Sales Terms.

This warranty corresponds to normal use of the equipment and does not cover:

- Damage due to normal wear,
- Damage due to incorrect use,
- Damage due to lack of maintenance,
- Devices that have been dismantled by unauthorized repair agents.
- External factors.
- Battery with overdischarged will not be taken under warranty.



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