

USER AND MAINTENANCE MANUAL FOR POWER-BRUSH WAND



NS400BRUSH

**READ CAREFULLY BEFORE USING THE
MACHINE**

Generalities

The rotating brush wand NS400BRUSH is an accessory to be used with an injection-extraction machine, allowing to get a better result in carpet cleaning. In fact, the mechanical brushing action of the rotating brush allows to remove the dirt up to the base of carpet fibres. The best results are obtained using NS400BRUSH in combination with a high-performance Santoemma machine.

Normally, a single pass is enough to leave a stripe of carpet completely clean.



Safety instructions (read carefully)

Every electrical device must be used for its particular function only, respecting the manufacturer's instructions. Failure to adhere to the instructions could result in serious person injury, electric shock, fire or explosion.

The nowadays machines are normally produced according to the accident prevention regulations and are often homologated by qualified institutes for the safety, but nobody and nothing can save irresponsible users from danger.

Please, read carefully the following points and be sure to understand everything before using the machines. The following information signals potentially dangerous conditions to the operator or equipment.



WARNING: Fire or Explosion Hazard.

- Do not spray water near electrical outlets.
- Do not use the machine to spray or to suck dust, corrosive liquids (acids or bases) and explosive or inflammable liquids.
- Do not use the machine in an explosive atmosphere. This machine is not equipped with an explosion proof motor. The electric motor will spark when powered on which could cause a flash fire or explosion if machine is used in an area where flammable vapors/liquids or combustible dusts are present.
- Never use flammable liquids or operate machine in or near flammable liquids, vapors or combustible dusts.



WARNING: Electrical Hazard.

- Before putting the machine's plug in the current socket, check that the voltage available is the same indicated on the label of the machines.
- Be sure that the electrical system is well earthed and that it has a safety differential switch.
- Verify that the cable plug is complying with the outlet.
- Do not modify plug.
- Do not use adapters or multiple sockets, without knowing the electrical input of each user.
- If any electrical extension is used, check that it corresponds to the absorbed power of the machine and that the connection of the plug with the socket is complying and sealed.

- Take care of the electrical cable. It must be integral and protected from water, tears and chemical agents. Do not repair the cable in case of tears, but replace it with a new one. The cable must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.
- Do not pull the cable to drag the machine or to pull the plug out.
- Pull the plug out only when the machine is switched off.
- Do not handle the plug with wet hands.
- Unplug cable before servicing machine.



FOR SAFETY:

- Do not let the machine being used by children and people unable to understand the danger connected with the use of electrical power.
- Do not bring the end of the suction hose or one of the accessories near your face or others', particularly near ears and eyes: the sucked air could seriously damage them.
- Do not put hands or other parts of the body near the rotating brush while the tool is connected to an electrical socket. While the tool is plugged to an electrical socket, the brush must be in touch with the floor.
- Immediately switch off the motor, acting on its switch, if the brush rotation is prevented, for example by wires looped around the brush.
- If the machine is used as a wet vacuum cleaner, you must check the level of water in the recovery tank, in order to prevent water from being sucked by the vacuum motor.
- If the chemical you are using produces foam, or if you are cleaning carpet previously treated with shampoo, you must put some antifoaming liquid into the recovery tank. In the long run, the foam sucked by the motor can damage it.
- In case of abnormal working (very noisy motor, not running pump, extreme temperature rise, or other suspicious signals) switch off the machine and pull the plug out.
- If foam or liquid escapes from the machine, switch machine off immediately.
- After using, store the machine, well cleaned, in a cool and dry place.

The manufacturer cannot be held responsible for any damage/injury caused to persons or property, because of the incorrect use of the machine due to procedures being used which are not specified in this instruction manual.

Attention: all the electrical repairs must be performed by qualified personal only!

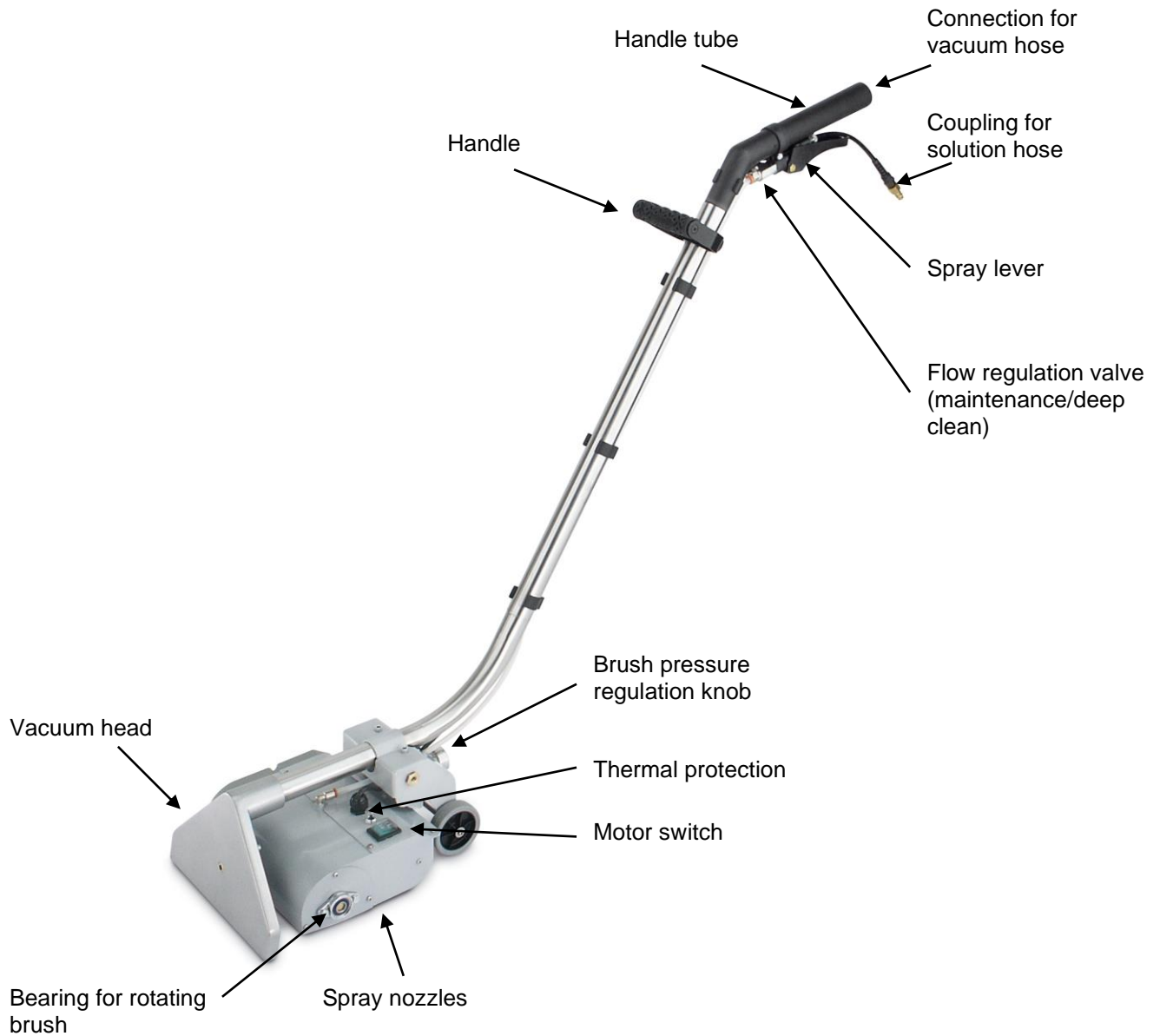


PROTECT THE ENVIRONMENT

Please dispose of packaging materials and old machine components in a safe environmentally way according to your local waster disposal regulations.



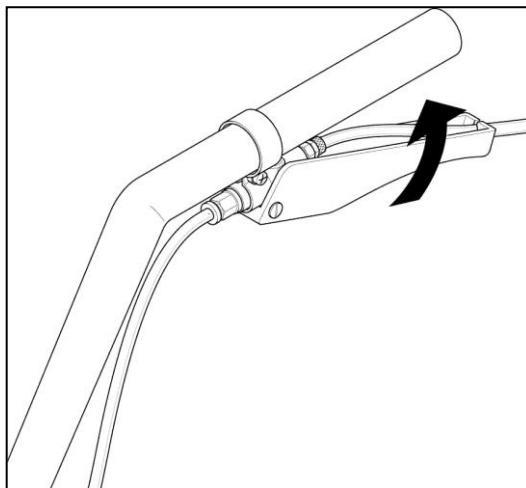
Always remember to recycle.



Preparation for Work

1. After preparing the injection-extraction machine, connect the accessory to the machine, using the machine's vacuum and solution hose
2. Insert the plug of the cable into a wall socket (see [Safety Regulations](#)).
3. Put the motor switch in position "I"
4. Act on the flow regulation valve, located on the handle tube of the accessory, in order to set the flow to spray on carpet. The lever parallel to the handle tube corresponds to the maximum flow, for a deep cleaning of carpet. The lever perpendicular to the handle tube corresponds to a minimal flow, useful for a maintenance cleaning and a consequently shorter drying time.

5. To spray water you need to press the lever situated on the handle of the accessory.



Attention: The brush motor is protected from overload, by a protection located on the control panel. If this protection intervenes, it is necessary to reduce the pressure of the brush, to avoid the overload of the motor. In order to reduce brush pressure, it is necessary to screw the brush regulation knob, located on the lower-rear part of the accessory.

If this is not enough to avoid that the protection repeatedly intervenes, you should contact the technical assistance. The repeated intervening of the protection might result in faults which cannot be covered by warranty.

Attention: Keep an adequate safety distance from other people, who could be run over by the machine. Pay attention to any object that could be hit by the machine. Never leave the machine unguarded.

Working Method

As regards the use as a self-contained machine, considering a rectangular surface, we suggest you to proceed in parallel stripes, spraying and sucking the solution at the same time. Proceed at a speed suitable to the dirt of the carpet. Act on the regulation valve to set the proper quantity of water to be sprayed on the carpet.

To improve the cleaning result, before injection-extraction cleaning it is recommended to pre-spray carpet, with a concentrated chemical solution.

In case of persistent spots, you can locally apply a pure detergent. On the market there are also spray bottles with detergents which are specific for a particular kind of spot. Choose high-quality detergents only in order to avoid any damage to the surface. Always make a test in an area where an eventual damage is less visible.

Cleaning with Foam extraction system

NS400BRUSH can be connected to a foam extraction machine (Sabrina Foam, HOT Sabrina Foam), to clean carpet with foam extraction system.

With this system, it is possible to spray on carpet a special dense foam, which is brushed afterwards, incorporating the dirt. After some seconds the foam is vacuumed from carpet, using the same accessory. Carpet will be dry in a particularly short time.

NS400BRUSH can be used both with injection-extraction system or with foam extraction system, according to the machine to which it is connected, the area to be cleaned and the operator's preferences.

To work with foam extraction system, proceed as follows:

1. replace the 4 spraying nozzles and use the special nozzles (with a larger hole), which are supplied with NS400BRUSH.
2. put the solution regulation valve in horizontal position (maximum flow).

Maintenance

NS400BRUSH is a device designed for professional use. The warranty on these machine is of 1 year and regards the faults due to manufacturing defects. The faults due to improper use are not covered by warranty. For further details regarding warranty, contact the distributor supplying the machine.

For a good preservation and a long duration of the machine, observe the following advice:

1. Periodically check that the brush can rotate without problems and eliminate any cause that avoid its free rotation. In case of problems, contact an after sales centre.
2. If the brush is worn out, it is possible to replace it with a new one.
3. Periodically check that the spray nozzles are clean, so that the solution is sprayed uniformly on carpet. In case of dirty nozzles, it is enough to remove them and clean them under water, using a little brush.

Milano, 01/02/2010

DECLARATION OF CONFORMITY

We:

**SANTOEMMA srl
Via Piave 22/C
20016 PERO (Milano)**

Declare under our responsibility that the product:

Powerbrush NS400BRUSH

To which this documentation relates is in conformity with the following European Directives and their modifications:
EC 2006/42; 2006/95; 2004/108. The European regulations in force are:: EN60335-1:2008; EN60335-2-69:2009;
EN 60704-3; EN55014-1:2008 + EN55014-2:1998 + A1:2008 + EN61000-3-2:2006 + EN61000-3-3:1995 +
A1:2001 + A1:2005 + EN50366 + EN30366/A1.

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