



# *Fast & Fluid Management*

**Manual HA650**  
English

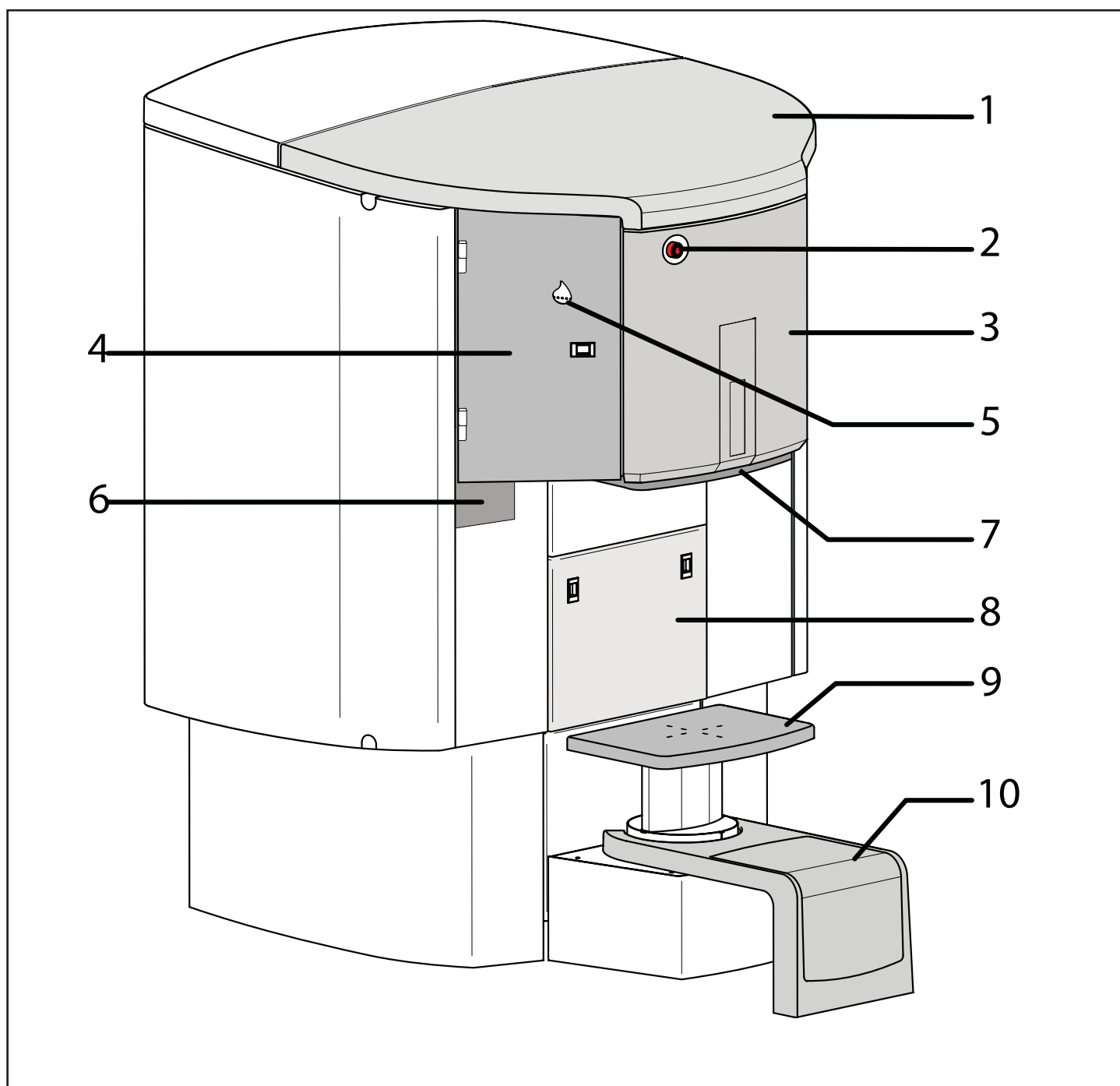
***Chapter 3:***  
***Operation***

version 01-2012

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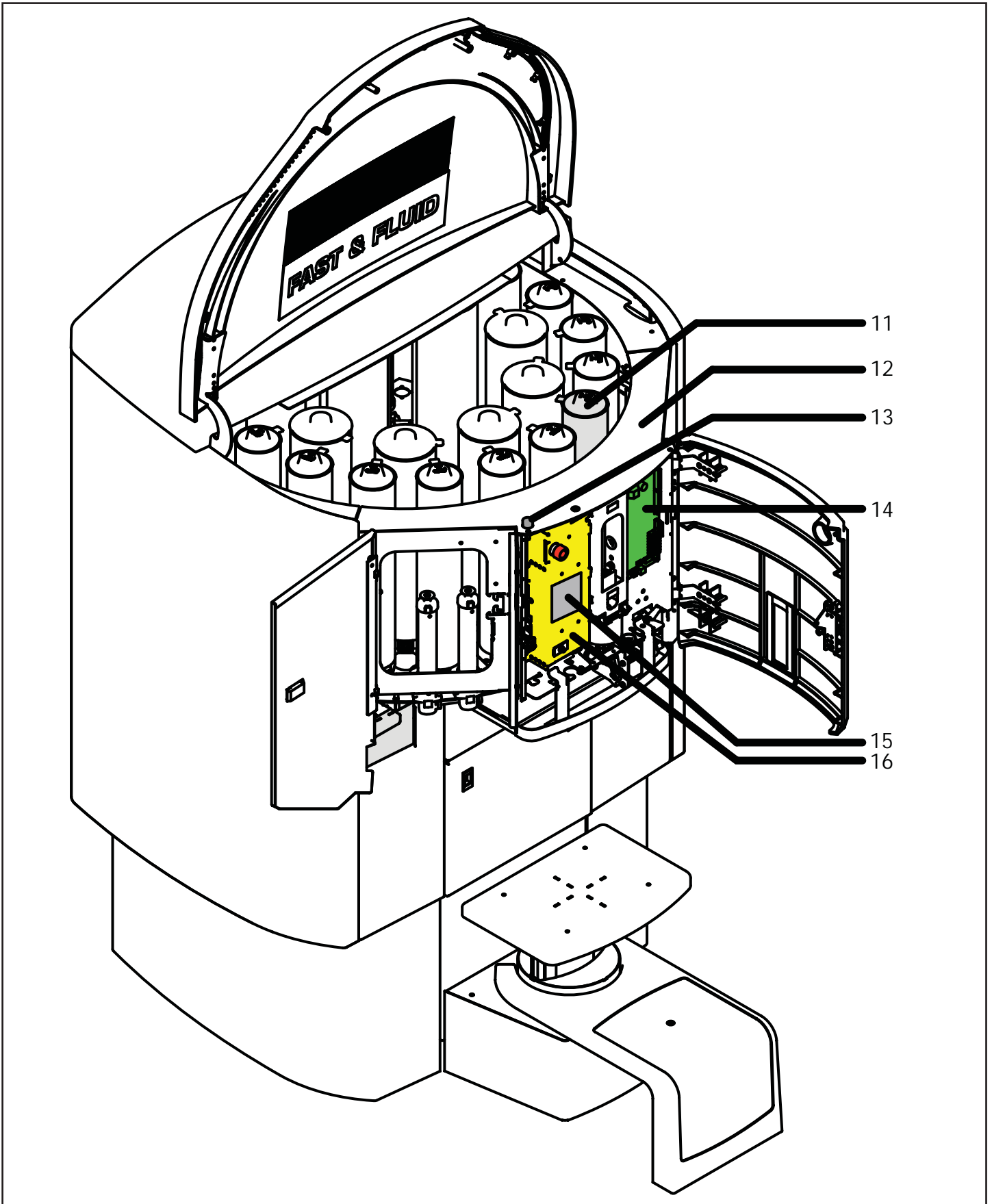
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## Dispenser summary



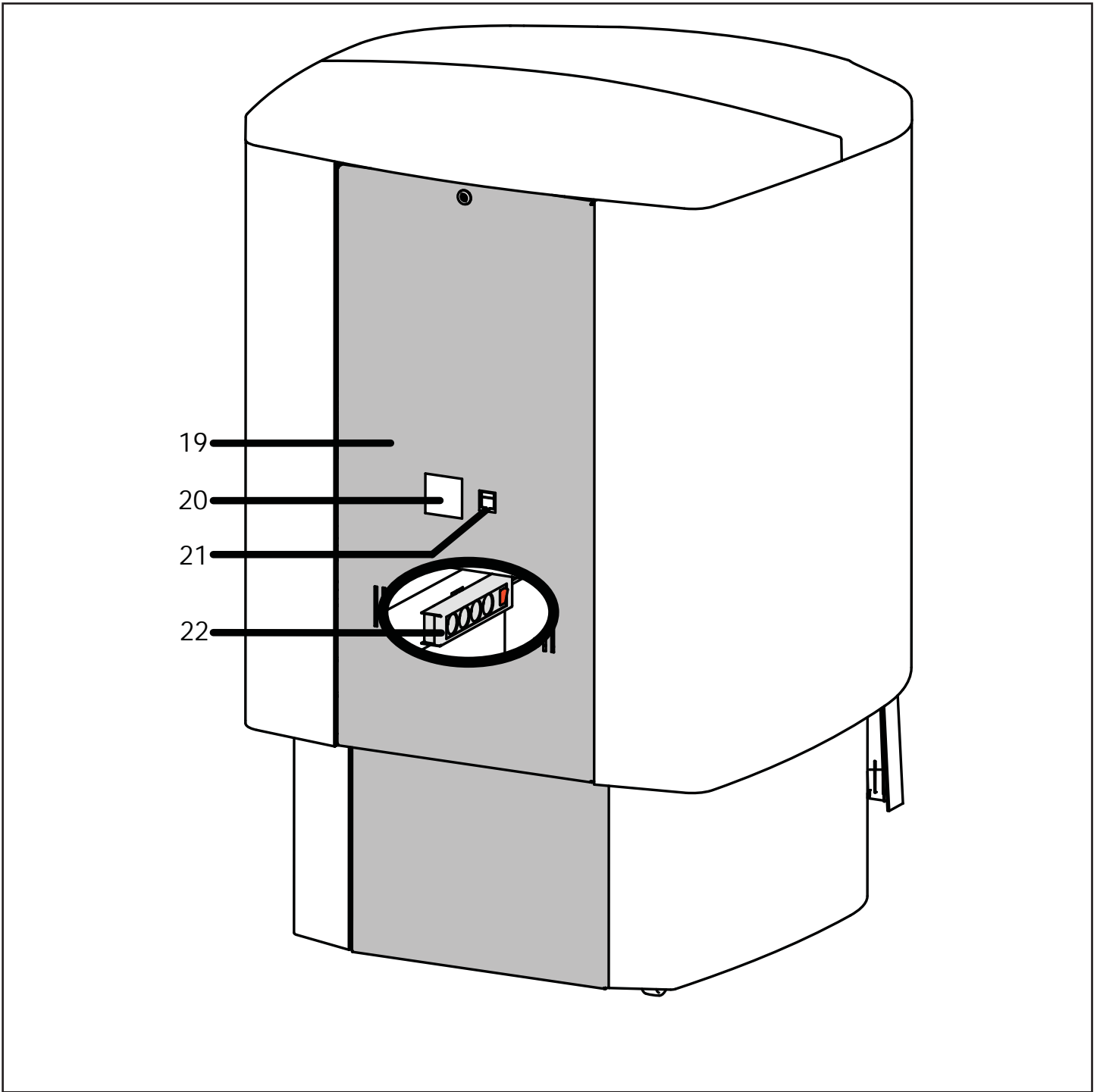
im.3-1

1. Top cover (Access to fill canisters)
2. Emergency stop switch
3. Maintenance panel: 'mechanics'
4. Maintenance panel: 'brush container'
5. Easy brush indication light
6. Brush container
7. Switchplate
8. Maintenance panel: 'Access PC'
9. Lifting platform
10. Step



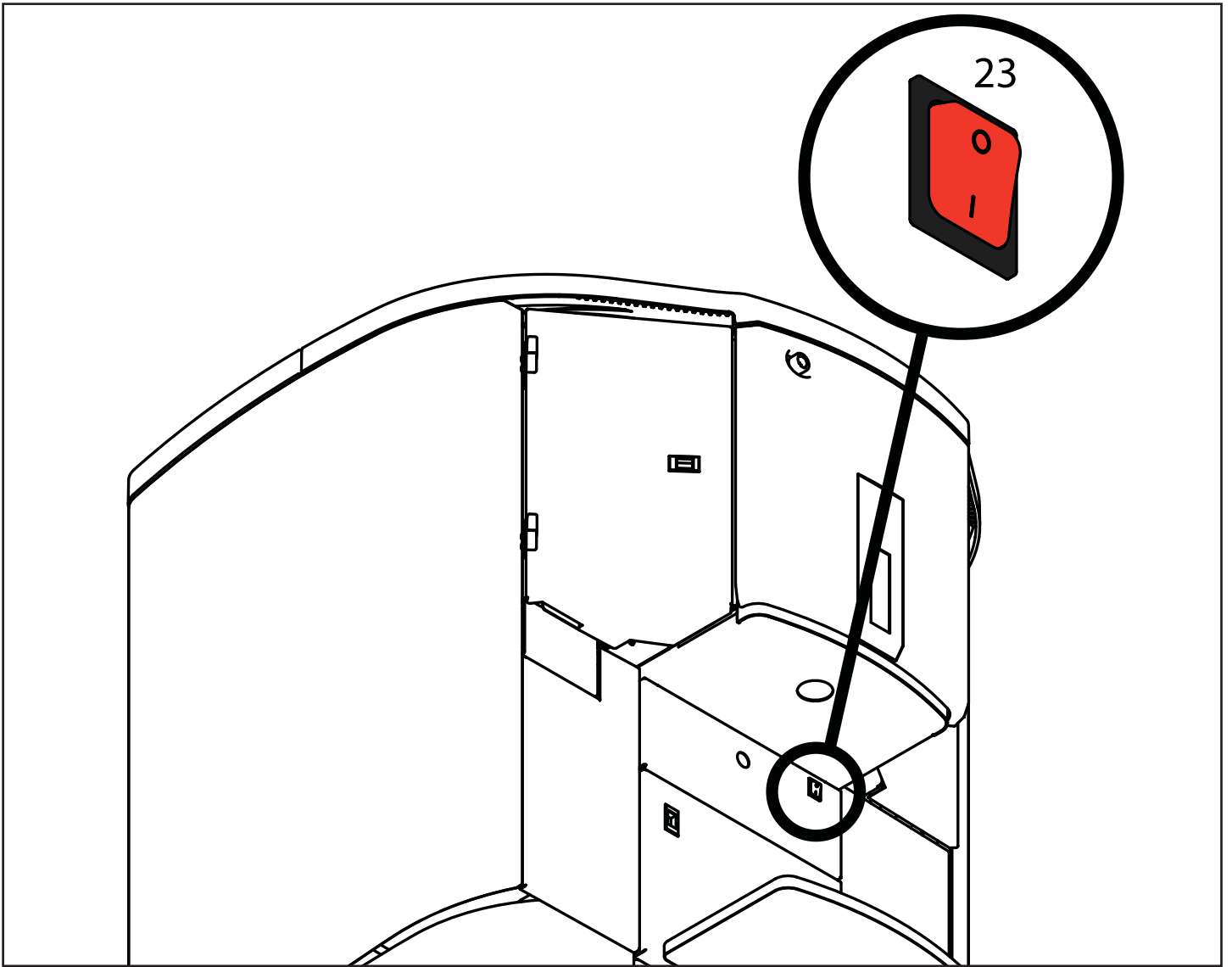
im. 3-2

- 11. Canister
- 12. Covering plate
- 13. Button to open maintenance panel 'mechanics'
- 14. 'Powerboard'
- 15. Type plate
- 16. Power supply unit



*im. 3-3*

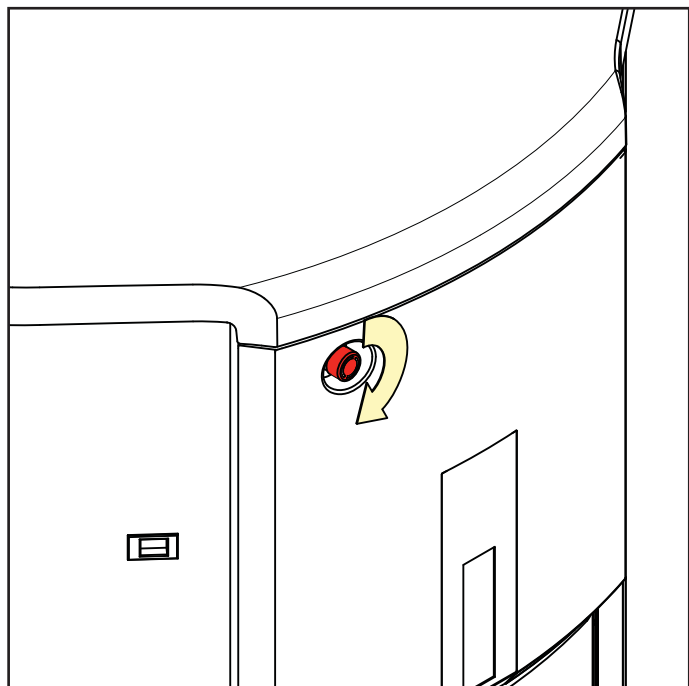
- 19. Back panel
- 20. Type plate
- 21. Netentry + fuse
- 22. Socket outlet (inside dispenser)



*im. 3-4*

23. Computer switch

## Turning the dispenser & computer ON



im. 3-5

### Turning on:

- Make sure the power cord has been correctly connected. (110/230VAC, 50/60Hz, 10Amax) see:dispenser summary #21 (im. 3-3).
- Unlock emergency stop switch see:dispenser summary #2(im. 3-1), the dispenser will automatically start up.

### Turning off:

There is no reason to turn off the dispenser; switching off the PC is enough. If for some reason it would be necessary, the dispenser can be switched off in the following ways:

- Switching off only the PC and the accessory equipment: Shut down PC and switch off the fixed socket outlet #22 If present, the computer switch can also be used for this purpose see: dispenser summary #23 (im. 3-4).
- Switching off only the dispenser: push the emergency stop switch (see:dispenser summary #2 (im. 3-1)). Do not use the emergency stop switch too often as this also causes the stirring mechanism to stop.
- Switching off entire dispenser: shut down PC and remove power cord, this also stops the stirring function.



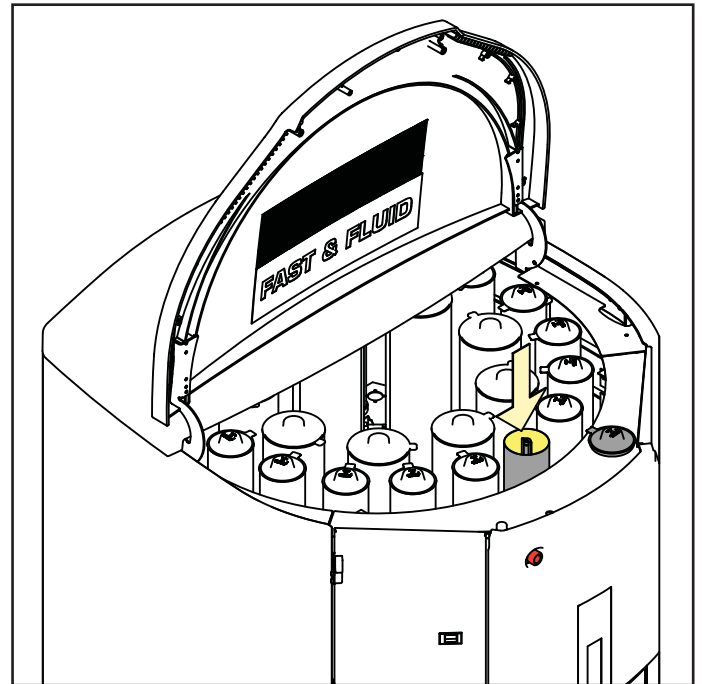
**Caution!** Switching off the dispenser with the emergency stop switch will also cause the stirring mechanism to be turned off.

## (Re)filling canisters



im. 3-6

- Follow the indications given by the software to know which colour goes in which canister.
- Turn the step #10 (*im.3-7*) to the middle position and open the top cover.



im. 3-7

- Fill the pre-selected canister.
- When you are filling the canisters for the first time, give the system the 'purge' command twice to remove all air from the system.
- Close the canisters, shut the top cover; the dispenser is now ready to be used.



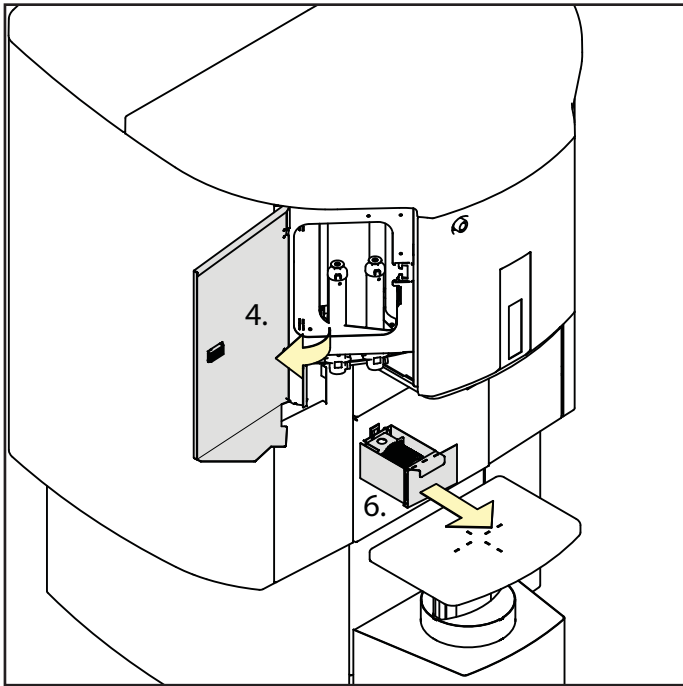
Always close the canisters in order to protect the paste from drying out.



Always shut the top cover of the dispenser, otherwise the machine will not start stirring!

## (Re)filling brush container

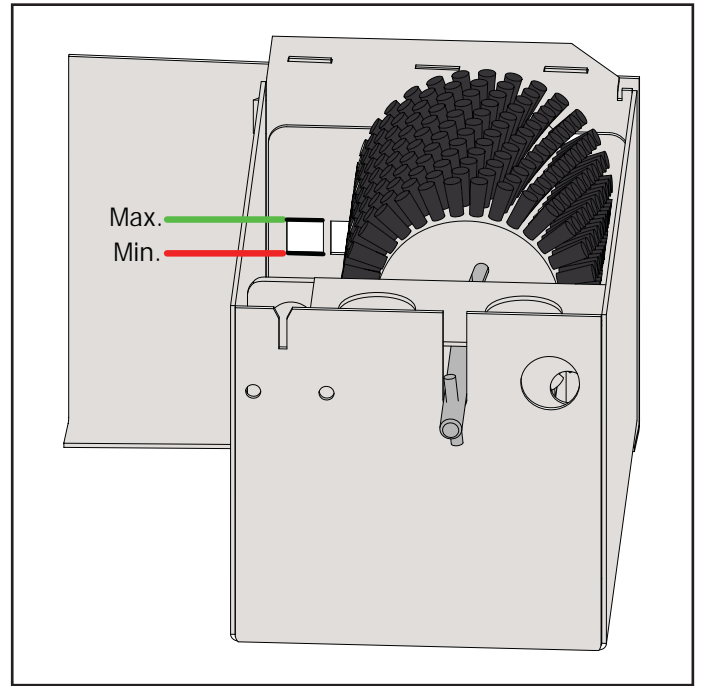
The fluid level in the brush container should be checked daily to ensure that it remains within min/max values (see diag. 3-9). Refill if necessary. The consumption depends on the frequency of usage and the type of cleaning fluid applied.



*im. 3-8*

Open left door #4 en remove brushing unit #6.

V



*im. 3-9*

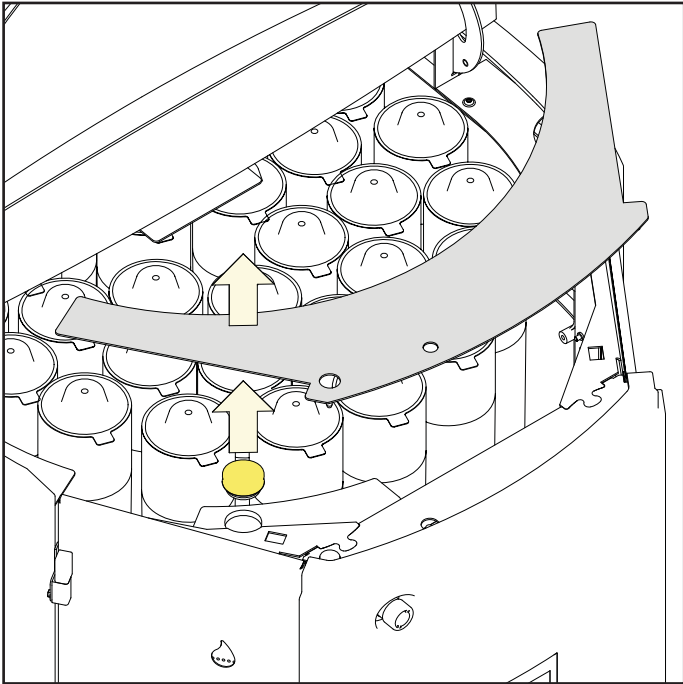
Fill the brushing container with cleaning fluid. Ensure that the fluid level is within the min/max values ( $\pm 850$ ml). Put the brush container back in the dispenser.



**Only use cleaning fluids that have been recommended by your colorant supplier. Otherwise a clogging of the system might occur.**

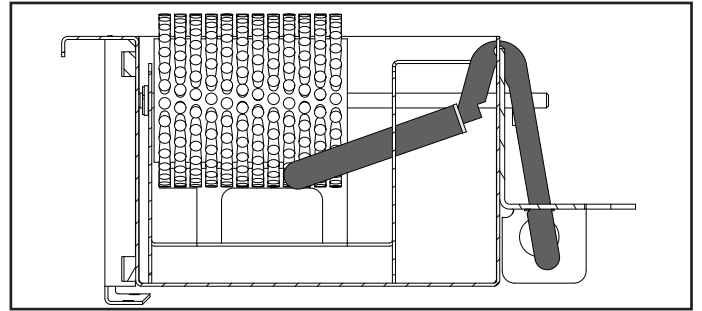
## (Re)filling the easy-brush option

The easy-brush option will automatically fill the brush container (as long as there is liquid in the container tank).

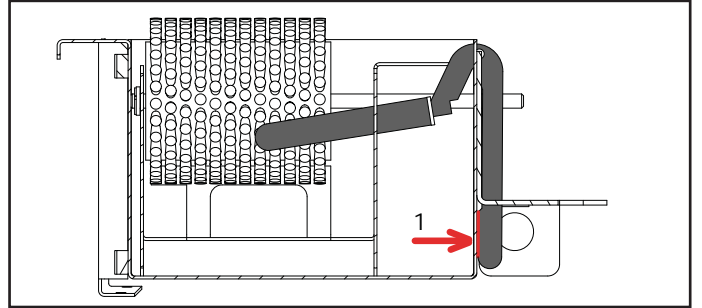


im. 3-10

The easy brush liquid container should be refilled periodically. When you see a flashing light (zie fig. 3-1 #5) this indicates that the container is almost empty. Fill the tank with max. 2 liters of cleaning fluid.



im. 3-11



im. 3-12

If you fill the brush container manually, make sure that the float is just touching the container (#1) (see im. 3-12)



No activity



Working



Container must be filled



Contact your service-department



**Caution! Dispose of the used cleaning fluid and the residue in the chemical container.**



**Only use cleaning fluids that have been recommended by your colorant supplier. Otherwise a clogging of the system might occur.**

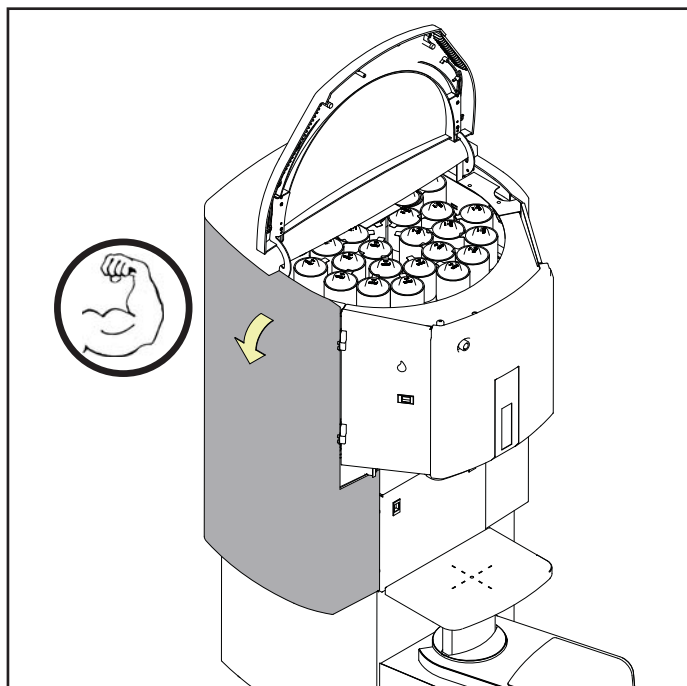


**Do not use tap water to fill the supply tank; the flora that will start growing in the tank will clog the duct system.**



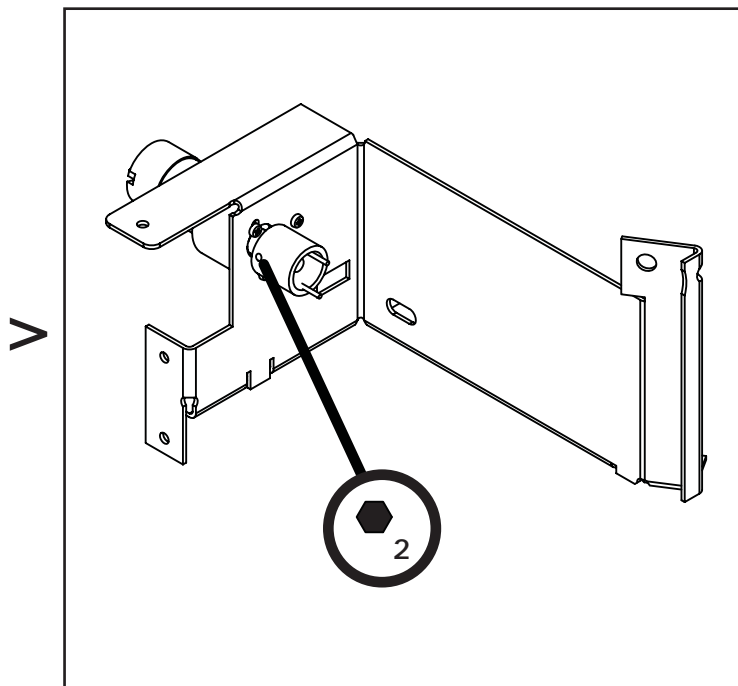
**Only use clean and fresh cleaning fluid in the 'easy-brush' liquid tank, to avoid clogging of the ducts.**

## Adjusting Brush height



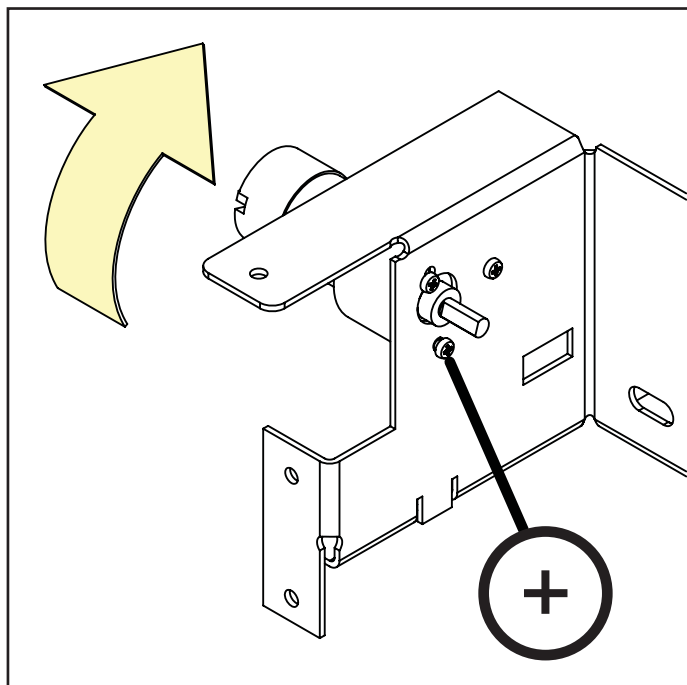
im. 3-13

Remove the backpanel and the left side panel in order to get access to the brush-unit. Remove the brush unit.



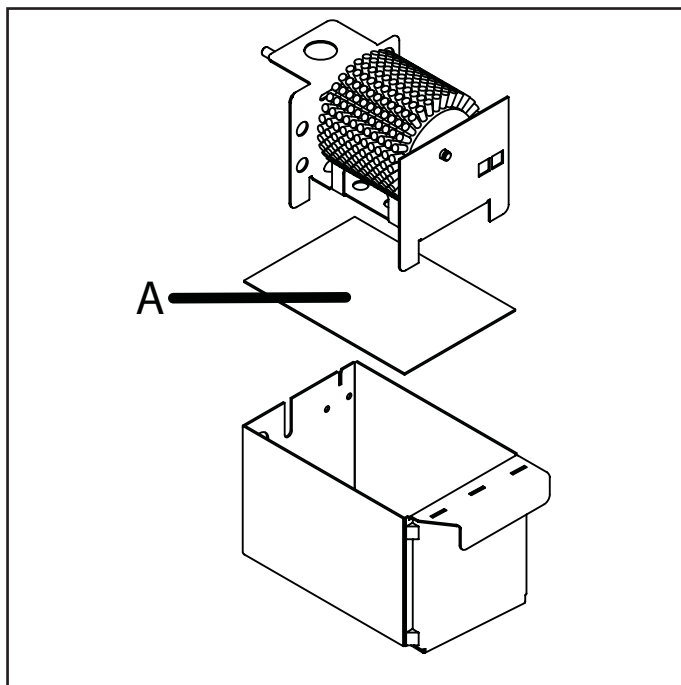
im. 3-14

Loosen the screw in the fork of the brush motor and remove the fork.



im. 3-15

Loosen the 3 screws which are holding the brush motor. Now turn the motor in the upper position. Secure the screws again.



im. 3-16

Now apply the 3 mm sheet metal plate (A) in the brush container, and assemble the brush-unit again.

## Cleaning out the brush container

After some time a layer of residue will form at the bottom of the brush container. Depending on the frequency of usage the entire brush container will have to be cleaned.

If you need a cleaning material which contains solvents or other materials that could react with the materials of which the refill container and its components are made off\* please make sure to check the resistance first.

\* Refill container & hose - PE (Polyethéen)

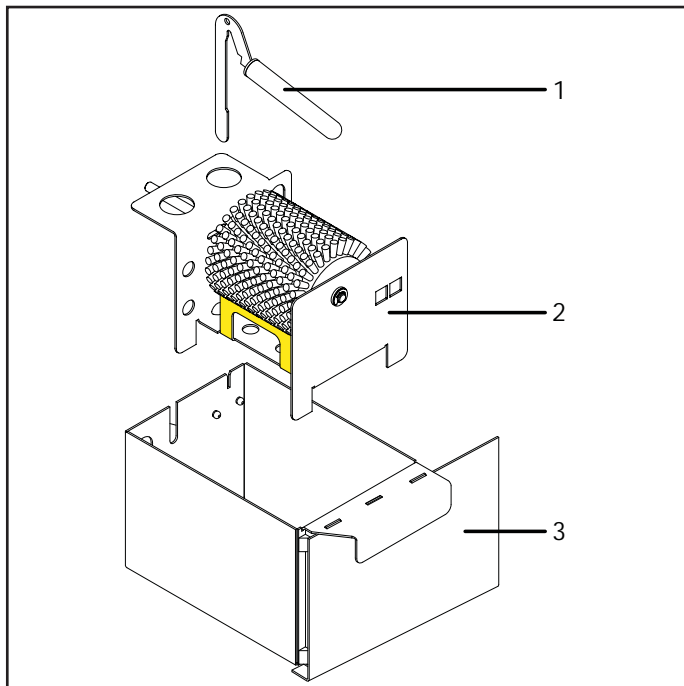
Electrical valve - messing(Brass) with Viton seal. (Teflon as from mid 2011)

Spout on valve - stainless steel

Brush container and bracket - stainless steel

Brush - PP (polypropeen) heart, with horse hair

Floater - POM (polyoxymethyleen)



im. 3-17

Remove the 'brush-frame' (#2) and the 'float' (#1) from the fluid container (#3) (see im. 3-13). Dispose of the residue, and clean the parts. Check if the brush scraper (yellow see im. 3-13) makes contact with the brush over its entire length.

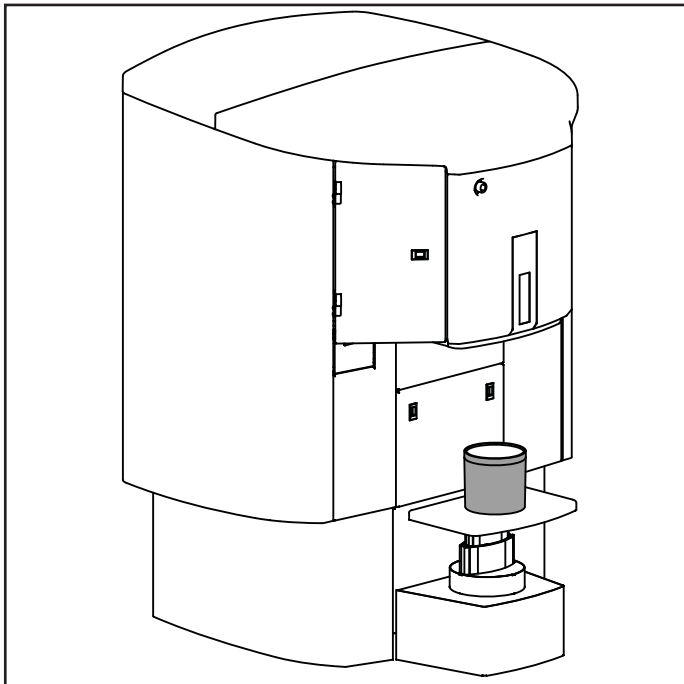
Fill the brush container with cleaning liquid (see im. 3-9) and place the brush container back in the machine.



**Caution! Dispose of the used cleaning fluid and the residue in the chemical container.**

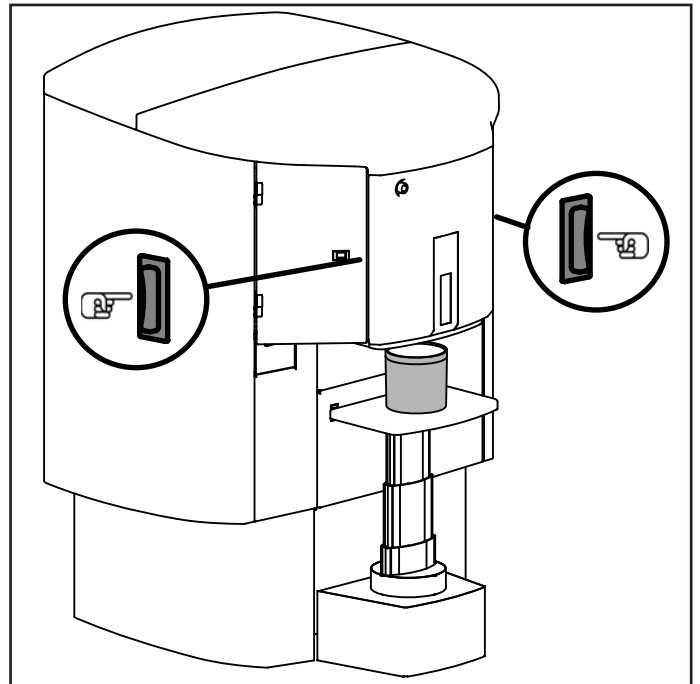
# Dispensing

Step 1 – Place the can in the correct position



im. 3-18

Place the can with the base paint on the cantable / cross.

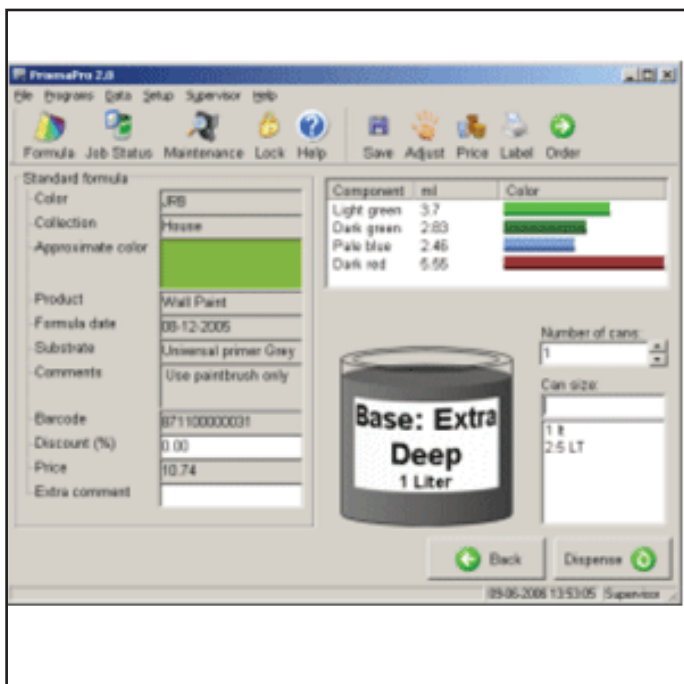


im. 3-19

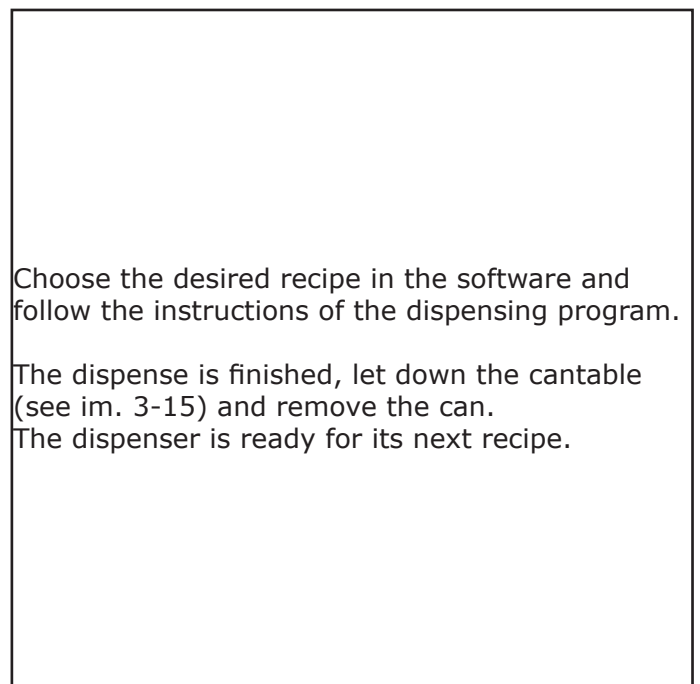
Raise cantable.

- Button left or right; the cantable will stop as soon as the can is detected by the can-sensor. If 2 switches are used at the same time, the cantable will only stop when the can hits the switchplate.
- If the punch option is used: press both cantable buttons to punch a hole in the lid.

Step 2 – Dispense of colorant in base material



im. 3-20

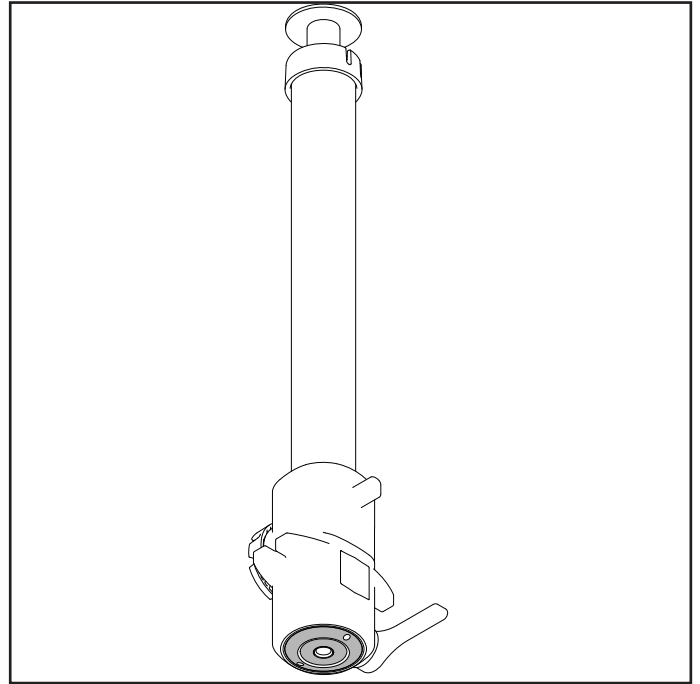


**Dispensing is mainly done by software. Consequently, please read the software manual thoroughly to get to know all the possibilities.**

## Cleaning dispenser

Clean the metal parts of the dispenser using a diluted cleaning product.

The plastic panels can be cleaned with most (diluted) cleaning products. If you are not entirely sure if the product you are planning to use is appropriate, test it first on an inconspicuous spot on the panel.



*im. 3-21*

The pumps are automatically cleaned by the brush container. However, when the pumps get clogged this can be done manually. Never use hard or sharp objects to clean out the outlet nozzle, this might damage the pump.



**Caution! MOVING PARTS CAN CAUSE INJURY.** Always switch off the power (e.g. with the emergency stop) before approaching moving parts.

## Troubleshooting

Before calling your supplier or the service department, please check if you can solve the problem yourself. If that does not work, you can call the service department for advice. Have the serial number and dispenser type ready (you can find the serial number on the frame, on the front of the dispenser (see im. 3-2 #15) or next the net entry on the back side of the dispenser (see im. 3-3 #20). Use the table below to determine whether you can solve a problem yourself or if you need to call the service department. You should never remove side panels from the dispenser, only certified personnel are allowed to do this. This table does not contain any error codes from the dispense software; please consult the software manual for these.



**Caution! MOVING PARTS CAN CAUSE INJURY. Always switch off the power (e.g. with the emergency stop) before approaching moving parts.**

<b><i>Problem/ Symptom</i></b>	<b><i>Possible cause</i></b>	<b><i>Action</i></b>
Dispense software not working	Program was started incorrectly	Restart computer & software
	Software incorrectly installed	Reinstall software
No machine activity	Incorrect connection to power net	Check wiring
	Broken fuse	Remove power supply and change fuse
	The emergency stop is activated	Turn the emergency stop switch (clockwise)
Colours are incorrectly reproduced	Turning table in wrong position	Reset (using emergency switch)
	Quality colorant instable	Contact your colorant supplier
	Condensed colorant	Replace colorant causing problem
	System has been soiled	Clean basic components (brush container and pumps)
Strange noises come from dispenser		Call your service help desk

## Sound signals

#	<i>Signal</i>	<i>Possible reason</i>
1	●●● - - - ●●●	S-O-S signal during stirring. The agitation motor is malfunctioning
2	●●● - - - ●●●	S-O-S signal during rotation turning table. The brush motor is malfunctioning
3	- - - - >	1 sec. on, 1 sec off... etc.... Stirring function cannot start because the top cover (#1) or the mechanical panel (#3) is open
4	● ● ● >	0.1-1sec. on (during an hour), 5 sec. off ... etc... filled brush container 5 x but no indication that it has been filled (only easy brush option)
5	●●●●●	5x short ' Valve timeout '
6	●●	2x short beeper test when starting up / initializing
7	----- >	long uninterrupted beep panel open during dispense
8	----- >	long, uninterrupted beep switchplate activated during dosage
9	●	1x short Start dispense (or turn table) when top cover is open and software is configured to disallow this. (Parameter TAOD=0)