ebatec

The joy of washing bottles

eric baumgartner tecchnik - industrial rinsing

General importer for

Jemi®

Industrial washing machines

Operating Instructions
Push through bottle rinsing machine
GS 81

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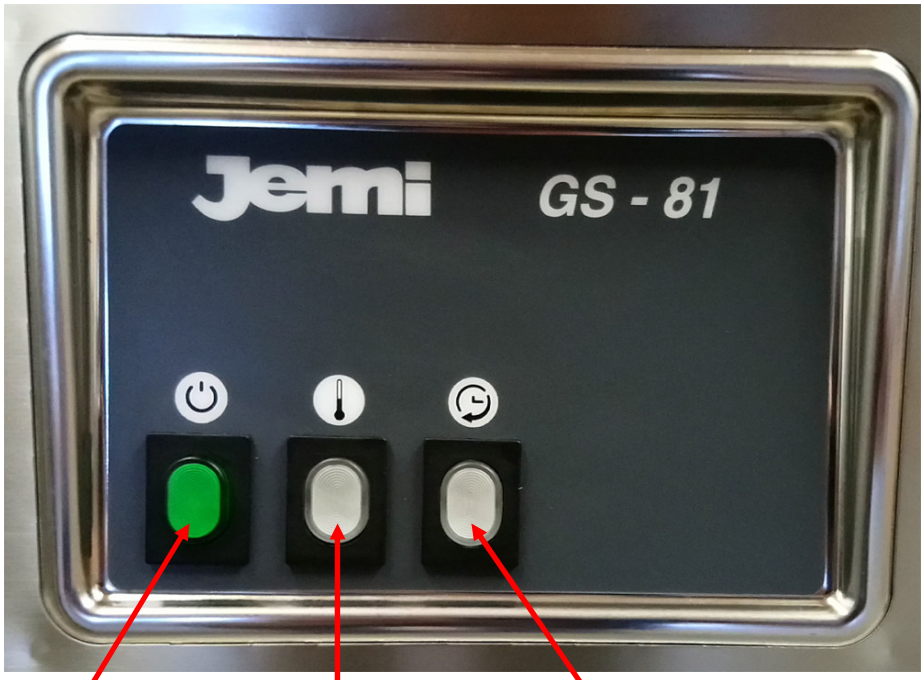
Panel



Main switch
Incl. lamp
(No. 1)

Indicator light
Temperature
(No 2)

Indicator light
Rinsing cycle
(No 3)

Instructions for the fitter / installer

The machine is equipped with the following accessories:
Power supply 5 x 4 mm² connected to the rinsing machine, supply hose with the matching connectors and joints, drain hose.
1 pc. bottle basket
1 pc net basket
1 pc cradle insert

The following components described on the installation plan would be necessary:
Water drain max. 180 mm from the bottom.
Fresh water tab of the machine to a ¾" water supply line with a permanent flow pressure at least 2,5 bars.
Three-phase power connection with components for current protection (magnetic-thermal and differential). The main switch to be installed on (omnipolar section) should have a clearance between the contacts equal or higher than 3 mm.

The machine can be levelled by means of the height-adjustable feet.

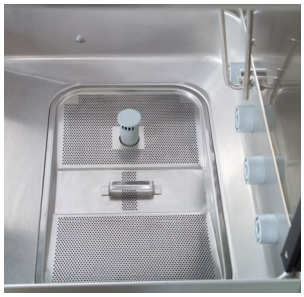
Connect the water supply hose to the external thread at the installation site.
The water supply hose is already connected to the inlet valve of the water inlet at the front of the machine.
Connect the water supply hose to the external thread at the installation site.
The drain hose is already mounted to the machine.
If necessary, cut the rest of the draining hose to its size.

The machine has to be connected on a mains voltage of 400 volts 50 Hz.
Imperatively respect the direction of rotation of the rinsing pump. Interchange the phases, if necessary.
We will be at your disposal to consult you regarding the connection to other mains voltages.
The pre-set temperature of the suds in the machine amounts to 57°C.

Commissioning.

Check if the bottom fine filter is in the required position.
Insert the overflow pipe into the opening in the surface filter.





Close the hood and press the main switch (1). The green display is illuminated.

The tank will be automatically filled by the flushing system.
As soon as the machine attained the water level, the machine will automatically close the water inlet by means of a pressure control device. The pressure control device is set serially with an electro valve which is responsible for filling the machine. At the last position, the tank is being heated up. The machine would be ready for the rinsing process as soon as the correct temperature has been attained in the tank (about 57ºC). The temperature indicator is illuminated (No. 2).
The estimated time to fill and heat the tank amounts to about 18 to 20 minutes.

The machine is equipped with a dosing pump for the liquid cleaning agent as standard. Before each filling or flushing, the pre-set quantity of liquid cleaning agent will be automatically supplied into the tank.

The manual addition of the enzyme powder is different depending on the soiling of the bottles or glasses. The first dosing after the filling process should be 1 tbsp. During the rinsing process, add 1 spoonful of powder after each 2nd or 3rd rinsing cycle.

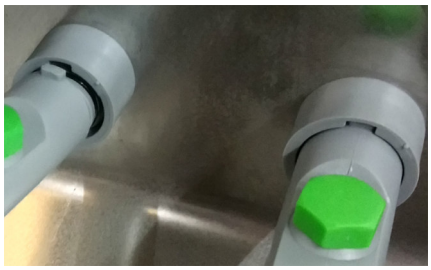
Please note, that too much enzyme powder in the suds may result in foam formation.

Preparation for rinsing

Depending on the items to be rinsed, it is necessary to insert the corresponding rinsing arms.

Rinsing arms for bottle rinsing

Rinsing arms for the rinsing of yoghurt jars, work utensils, crates or buckets, etc.



Withdraw the rinsing arm from the bracket and pull it out of the rear seating.

Insert the desired rinsing arm into the opening at the rear panel and mount it in the bracket at the front.

Fold down the flushing arm until it rests on the rinsing arm.
Insert the basket skid into the provided recess in the machine.
Attention: Do not place the basket skid with the rubber corners on the floor.
The rubber caps could get damaged.

Rinsing

Open the hood and check if the fine filter, the surface filter as well as the overflow pipe are in the correct position.
Fold down the flushing arm and insert the basket skid.

Close the hood and press the main switch (No. 1). Then, the machine starts spraying the fresh water into the interior and at the same time the liquid cleaning agent will be supplied. The suds are heated up to about 57°C.

If the indicator light (No. 2) of the temperature is illuminated, the machine is ready for the rinsing process.

Then, insert the basket into the machine.

When using the bottle basket, make sure that the basket is positioned at the centre of the basket skid.

Close the hood and the rinsing process will be started (4 min. and 50 sec.). The indicator light (No. 3) is illuminated. After having completed the rinsing process, the indicator light (No. 3) will fade out. Open the hood and withdraw the corresponding basket with the items to be rinsed.
Then, you can perform another rinsing process, make sure that the indicator lamp (No. 2) is illuminated. Remove the detached labels after each rinsing process from the strainer.

After having completed the last rinsing cycle, switch off the machine by pressing the main switch (No. 1). Open the hood and remove the rinsing basket.

Withdraw the basket skid, fold up the flushing arm and extract the overflow pipe from the machine.
The suds are running out of the tank unpressurised through the drain hose. Then it is possible to clean the machine.

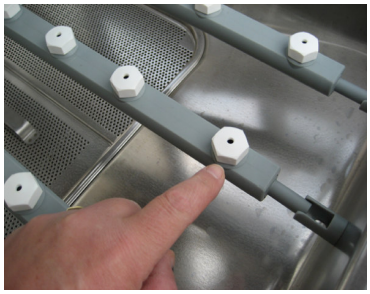
Attention:
Cleaning agents are corrosive. Therefore, always wear protective goggles and gloves when handling chemicals.

Care cleaning decalcification

In order to ensure a good maintenance of the machine, it is necessary to ensure the following:

Switch off the main switch.
Empty the machine every day, pull out the overflow pipe and clean the strainer as well as the fine sieve.

Remove rinsing arms from the guiding by slightly lifting them. For a simple check of the soiling of the rinsing nozzles, start with the corresponding nozzle on the rinsing arm, which points to the front of the machine.



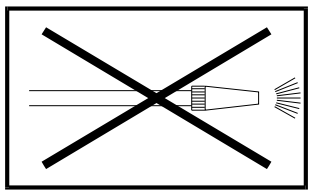
Open the screw connection of the rinsing nozzle and check if the nozzle is soiled. If this nozzle is clean, the other nozzles will probably also be clean and do not need to be cleaned.

The closed water-bearing part in the bottom part of the machine will only be supplied with cold water. Therefore, a decalcification is not being required.

Always check if the interior of the tank, in particular the heating elements, are calcified.

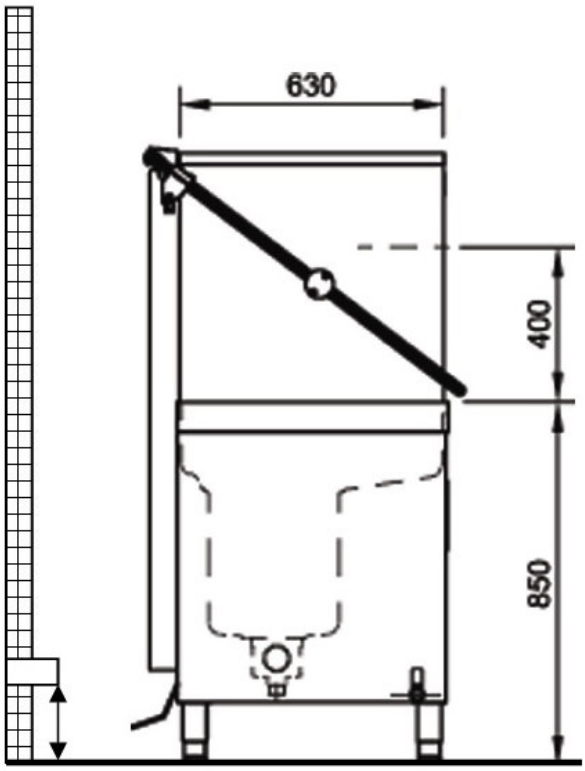
After having cleaned the machine, spray the interior of the tank with decalcifier (according to the instructions). It is also possible to spray on the strainer and the fine sieve and put them into the machine. After the application time, close the hood and press the main switch (No. 1) Switch off the machine after about 20-30 sec. by pressing the main switch (No. 1). Open the hood and reinsert the fine sieve and the strainer. Proceed as described in the chapter Rinsing in order to start the rinsing process.

Do not hose the machine with water.
Wipe the outside of the machine with a damp cloth and / or with a care spray for stainless steel.



Technical data:

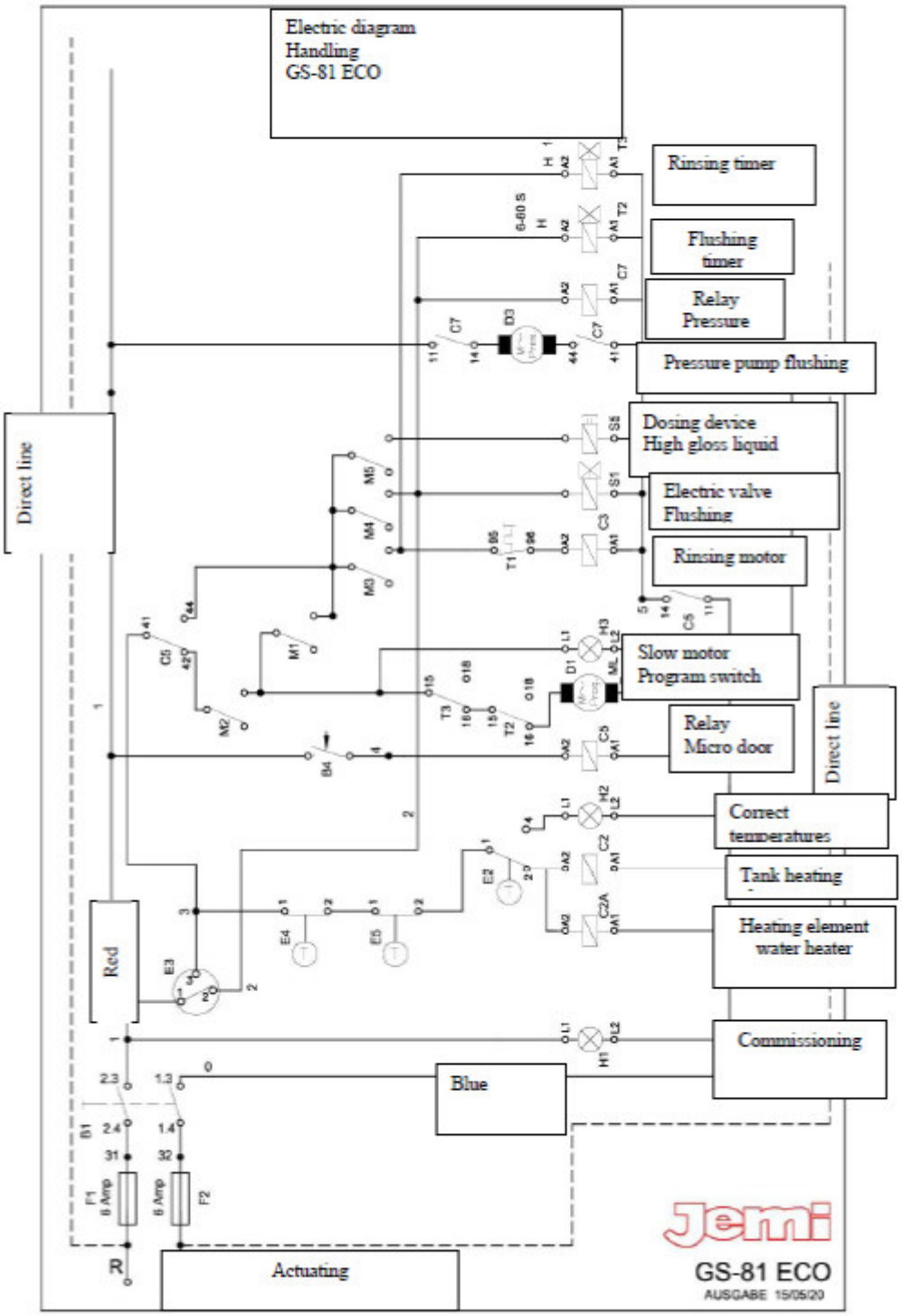
WEEE-Reg.No.:	DE 51131709
Hourly output	about 250 bottles/h
Rinsing time:	4 min 50 sec.
Bottles per rinsing process:	max. 20 pcs
Pump capacity:	1500 W
Circulation rate:	550 ltr./min.
Tank heater:	2 x 4500 W
Overall connected load:	10600 W
Voltage:	400 Volt
Tank contents:	39 ltr.
Water consumption/rinsing cycle:	about. 9 ltr.
Required permanent flow pressure:	2,5 bar
Water supply line:	¾"
Water drain max. 180 mm from the bottom	50 mm ∅
Rack height:	up to 440 mm
Basket dimensions:	500 x 500 mm
Rinseable crate size max.	580 x 600 mm
Equipment of baskets:	1 bottle basket, 1 net basket 1 crate carrier
Dimensions:	
Width:	640 mm
Depth:	750 mm
Height:	1440 mm



Type GS81:
Bottom edge drainpipe 180 mm

Possible Troubleshooting

Malfunction	Possible cause / Remedy
It is not possible to switch on the machine	The power supply to the machine is interrupted, cause within the machine., Contact the after-sales service
The machine is not being filled with water	The check valve provided by the customer is closed, the air trap is soiled – therefore, the level switch does not work, the inlet valve is soiled or defective, Contact the after-sales service
The machine fills up with water and heats up, but it is not possible to start the rinsing program	The door contact switch is not in contact/defective, the fine wire fuse, is blown Contact the after-sales service
The machine is not heated up	The machine is equipped with 2 safety thermostats They will switch off the heating system as soon as the maximum temperature is being exceeded. Contact your after-sales service.
The machine is being filled continuously with water	The overflow pipe is not inserted correctly
The items to be rinsed are not clean	The rinsing temperature is too low, is is forgotten to fill in the cleaning agent, the machine does not convey the cleaning agent, the rinsing agent container is empty, the rinsing nozzles are plugged
It is not possible to move the hood	Check if dirt has accumulated in the lateral guide rails, remove the dirt, if applicable. If there is a defect on the spring system, do not lift the hood with by force. Contact the after-sales service.


Electric diagram
Handling
GS-81 ECO
Rinsing timer
Flushing timer
Relay Pressure
Pressure pump flushing
Dosing device High gloss liquid
Electric valve Flushing
Rinsing motor
Slow motor Program switch
Relay Micro door
Correct temperatures
Tank heating
Heating element water heater
Commissioning
Direct line
Direct line
Red
Blue
Actuating
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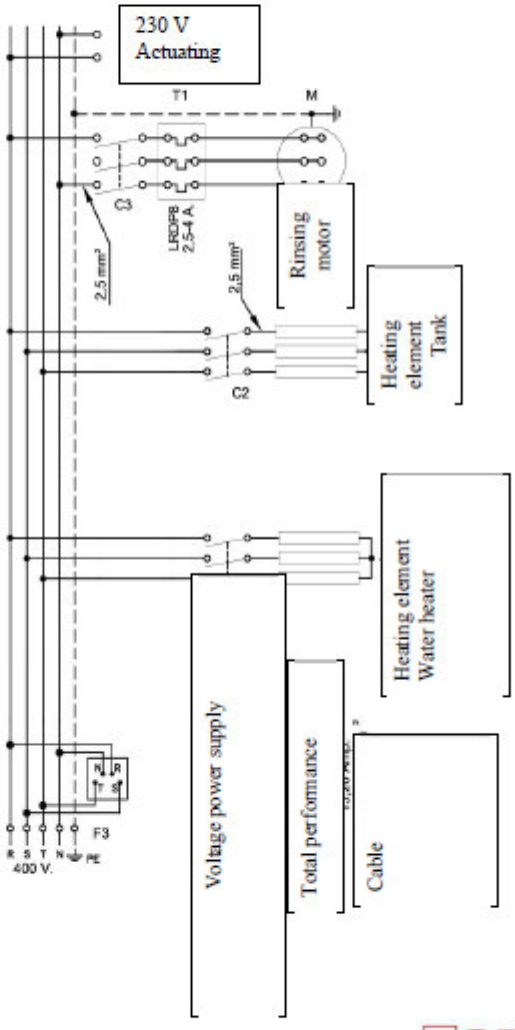
Electric diagram
Motors and heating elements
GS-81 ECO



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GS-81 ECO
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Electric diagram
Rinsing machine mod. GS-81 ECO

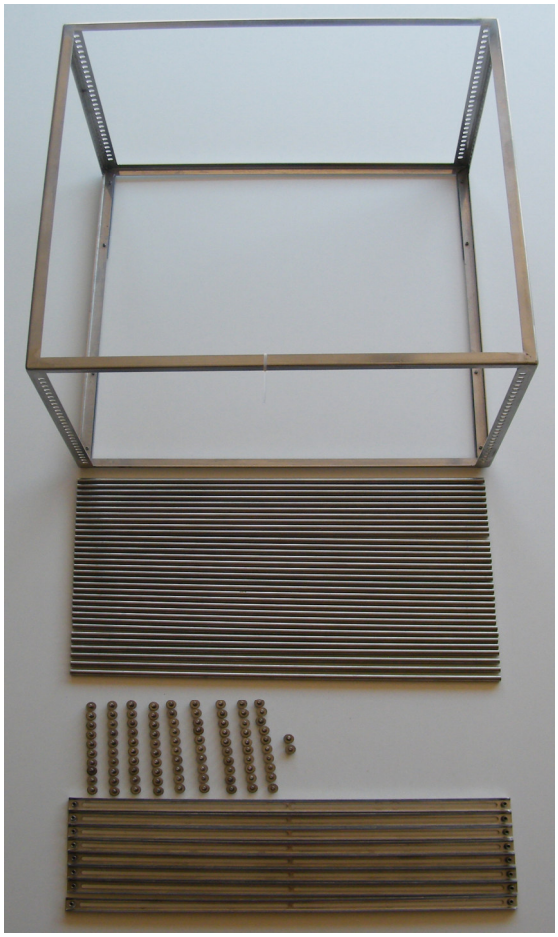
B1	Switch Commissioning
B2	Switch drain pump (optional)
B4	Micro magnet of the hood
C2A	Contact protection tank heating element (A)
C2	Contact protection tank heating element
C3	Contact protection rinsing motor
C5	Relay micro magnet hood
C7	Relay flushing pump (optional)
C8	Relay drain pump (optional)
D1	Program switch slow motor
D3	Pressure pump flushing (optional)
D4	Drain pump (optional)
E2	Thermostat tank
E3	Pressure regulator
E4	Safety thermostat water heater
E5	Safety thermostat tank
F1	Confirmation security
F2	Confirmation security
F3	Anti-parasite capacitor
H1	Indicator commissioning
H2	Indicator correct temperatures
H3	Indicator bottle rinsing machine
H5	Indicator drain pump (optional)
K1	Interior thermal protector rinsing motor
M1	Micro program switch (auto restart)
M2	Micro program switch (program preparation)
M3	Micro program switch (rinsing process)
M4	Micro program switch (flushing process)
M5	Micro program switch (dosing device for high gloss liquid)
S1	Electric valve flushing
S5	Dosing device for high gloss liquid
T1	Thermal protector relay rinsing motor
T2	Pump timer rising
T3	Rinsing timer

Bottle Basket

The system of our bottle basket of the GS 81 can be used for milk or cream bottles with an opening diameter of at least 38 mm.

Scope of delivery:

1 pcs basic basket
8 pcs support rails
36 pcs support rails
88 pcs screws + washers (+ reserve)
1 pcs Template for the basket mounting
1 pcs Screw connection for rinsing arm
1 pcs Magnet
1 pcs Cable tie per basket



Assembly of the bottle basket

Put the template on the table and put the bottle basket over the template.

Attention:

The template is marked with the word

FRONT

one position.

Also mark the basket with a cable tie or the like. The basket is square but it only has one correct front. Be aware that the skids are running from the left to the right.

Then put your bottle (in our example a 1.0 l milk bottle) on the recess of the template.

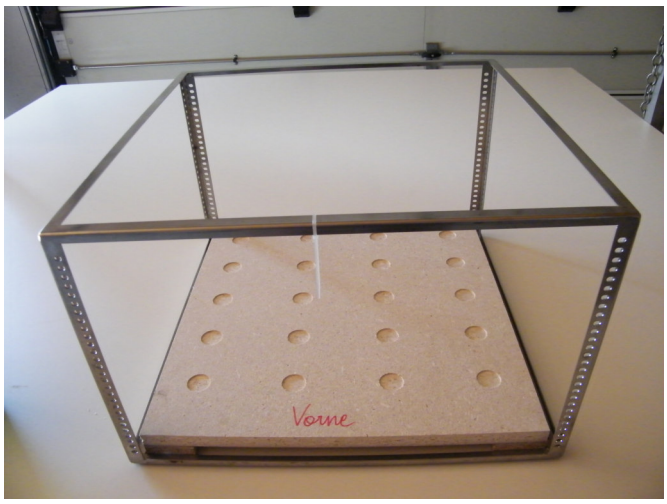
Then mount the support rail at the height which best allows to hold the bottle at the bottle neck.

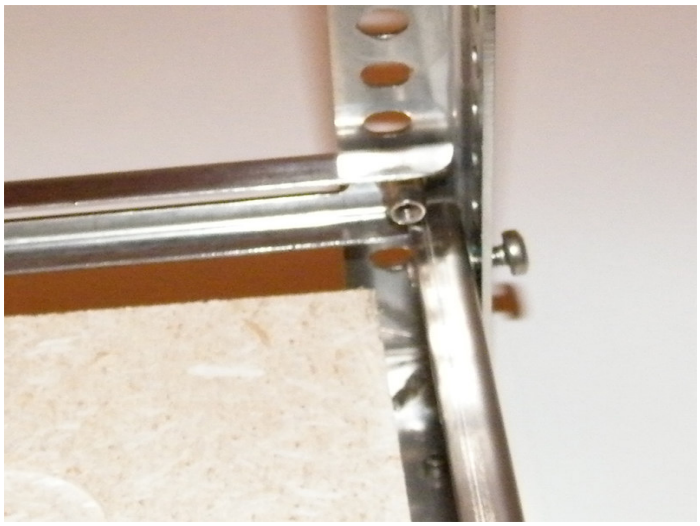
Then mount the lateral and rear support rail.

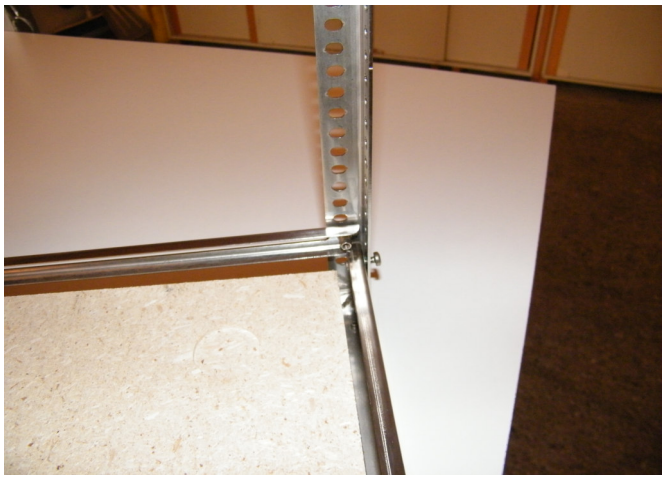
Attention:

Mount the front and rear support rails at the same height and fix them with the screws Only tighten the screws slightly. Mount the lateral support rails displaced by one hole of the frame to the bottom.

Then only slightly tighten the screws. Only tighten the screws after having completed the "level".



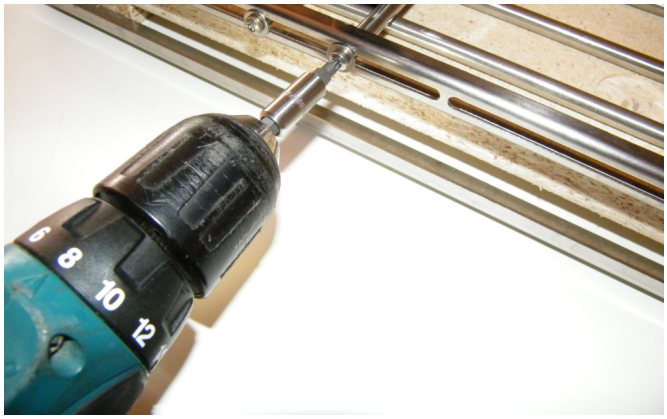




Also check how many bottles can be used in the bottle basket depending on the type or size of the bottle. Also, the number of the support bars to be mounted would change depending on the number of bottles.

Place the support bars on the bottom level of the support rails. Up to 8 pcs depending on the size of the bottle. Then position the support bars (2 pcs each) at the recesses of the template running from the front to the rear.
Take one screw with one washer each and mount the support bars. Only slightly tighten the screws, in order to be still able to shift the support bars.
Then withdraw other support bars and insert them into the upper support rail.
Max. 10 pcs and position them again on the recesses from the front to the rear
It is necessary to always make sure, that the bottle mouths always stand over the recesses of the template.
Attention: First further tighten the screws as soon as the position of the support bars exactly matches the recesses on the template and the bottle mouths.
If it matches you can tighten the screws on the support bars.

When using a cordless screwdriver, it is recommended, not to use the maximum torque output of the cordless screwdriver.



As soon as the bottom level of the bottle basket is assembled, you can assemble the upper level of the bottle basket.

First mount the support rails, as for the bottom level.
Here too, make sure that the support rails need to be mounted at the same height and the lateral support rails need to be mounted by one hole to the bottom on the basket frame.

Then place the support bars from the left to the right as well as from the front to the rear on the support rails. When inserting the bottles into the upper level, always make sure that they need to stand up straight or slightly inclined to the left in the bottle basket.

Only slightly tighten the support bars so that it is possible to exactly position the bottles.

For milk bottles of 1.0 l. you only need the support bars from the front to the rear, since the milk bottles of 1.0 l the space from the front to the rear. the space from the front to the rear.

When placing the milk bottles of 1.0 l into the machine, always first put the rear bottle into the basket. Then put the other 4 bottles in the row.