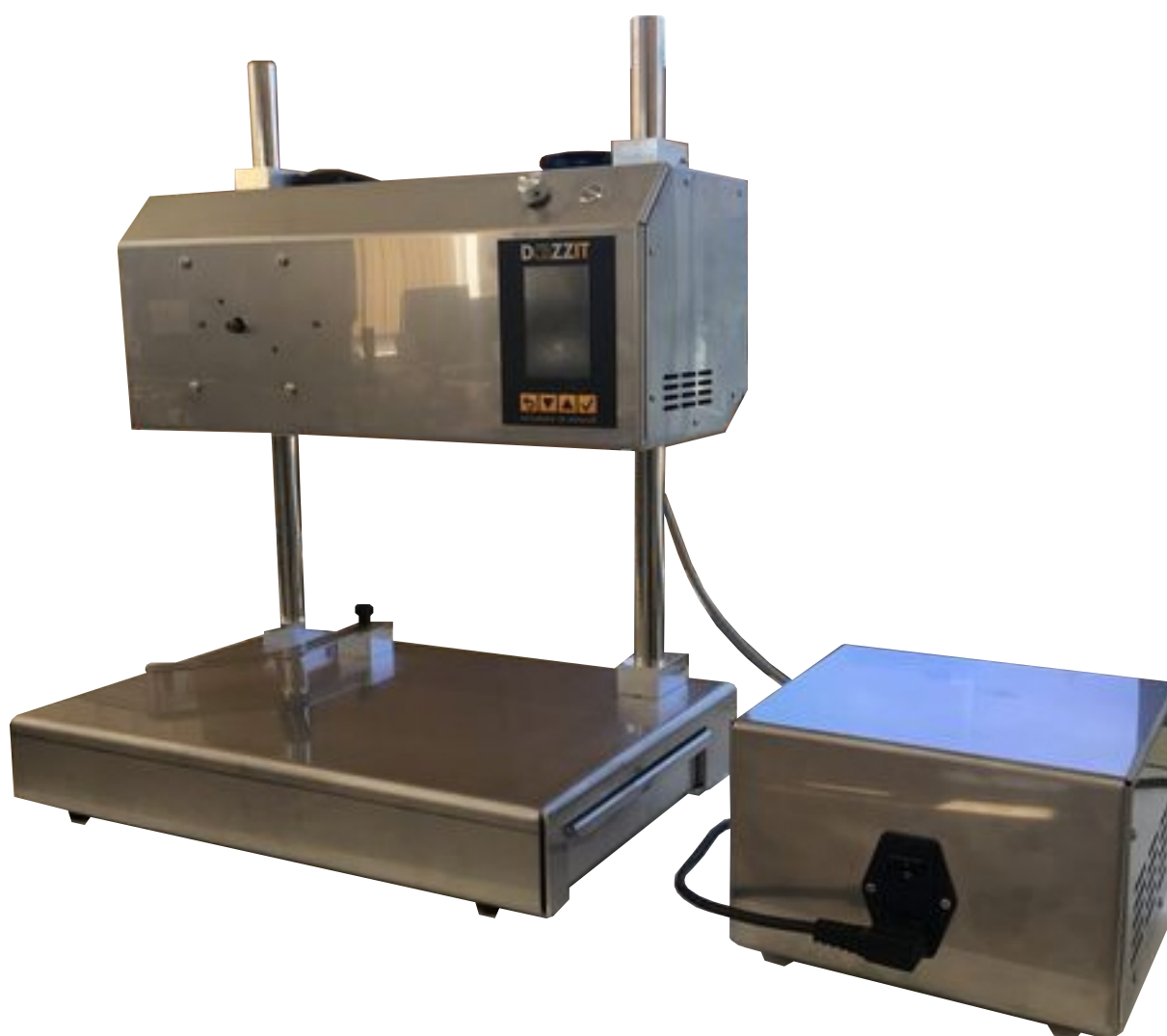


Dosing machine **DOZZIT**

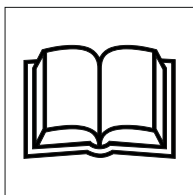


User manual

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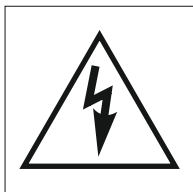
In the present Operation Manual have been used the following pictograms.



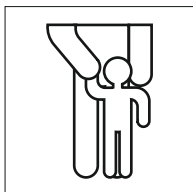
Read the Operation Manual!



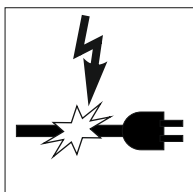
Follow safety warnings and instructions!



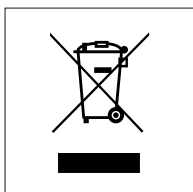
Protect yourself from electric shock. Danger to life!



Keep the children away from the machine!

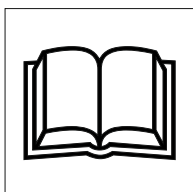


Risk of life from electric shock when a power cord or plug is damaged!



Dispose the packaging and the appliance in accordance with environmental regulations!

Introduction



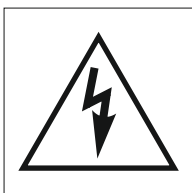
Before starting the machine for the first time, get acquainted with the functions of the machine and be informed about the correct operation with electrical appliances. In this connection, read the following operating instructions. Follow the instructions in the manual. When handing over the machine to third parties, hand over and all the documentation.

General safety instructions for handling electrical appliances.



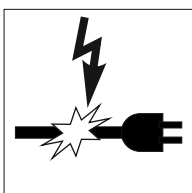
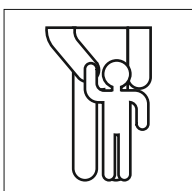
Attention!

The following safety precautions must be observed when using electrical appliances to protect against electric shock, risk of injury and fire. Read all of these instructions before using the machine and store them carefully.



Safe work.

- Keep your workplace in order. Clutter in the work area can lead to accidents.
 - Ensure good lighting in the workplace.
 - Do not use the appliance in humid conditions.
 - Do not use the appliance in places where there is a risk of fire or explosion.
 - Keep bystanders, especially children, away from the appliance when operating the appliance.
 - Do not use the appliance for purposes other than those intended.
 - Do not use the cord to pull the plug from the wall socket. Protect the cable from oil heat and sharp edges.
 - Avoid unnatural postures of the body. Take care of a secure posture, keep balance in every way.
 - Carefully maintain your appliances.
 - If you do not use the appliance, remove the plug from the socket.
 - Do not use the appliance with a damaged power switch.
- An electrical appliance that cannot be switched on and ?Carefully maintain your appliances.
- If you do not use the appliance, remove the plug from the socket.
 - Do not use the appliance with a damaged power switch.
- An electrical appliance that cannot be switched on and switched off is dangerous and needs to be repaired



- Be careful. Treat your work with caution. Do not use the appliance if you are not concentrated enough.

- Check the appliance for eventual damages. Check that the moving parts function flawlessly and are not tightened and that there are no damaged parts. All parts must be installed flawlessly and meet all conditions to ensure a faultless working condition of the appliance. Damaged safety components and parts must be repaired reliably by a certified electrician or replaced, unless otherwise stated in the instructions of the operation manual. Damaged circuit breakers must be replaced by a workshop.

Specific safety instructions.

- Do not remove the container during a filling cycle.
- Do not start the machine with the container incorrectly positioned.
- Do not block the dosing nozzle during operation.
- Protect the hoses from crushing and injury.

Failure to keep the above instructions may result in injuries or damages.

TECHNICAL DATA.

Power supply unit:

Supply voltage:	230V AC, 50/60Hz.
Consumption:	< 330VA.
Electrical connection:	cable with plug type 'SHUKO'.
Output:	cable 3x1,5mm ² / 2m. with connector WEIPU SF1210/S3.
Output voltage:	24V DC.
Output current:	12A.
Габаритни размери:	220mmW, 150mmH, 250mmD.
Тегло на захранващия блок:	8,5kg.

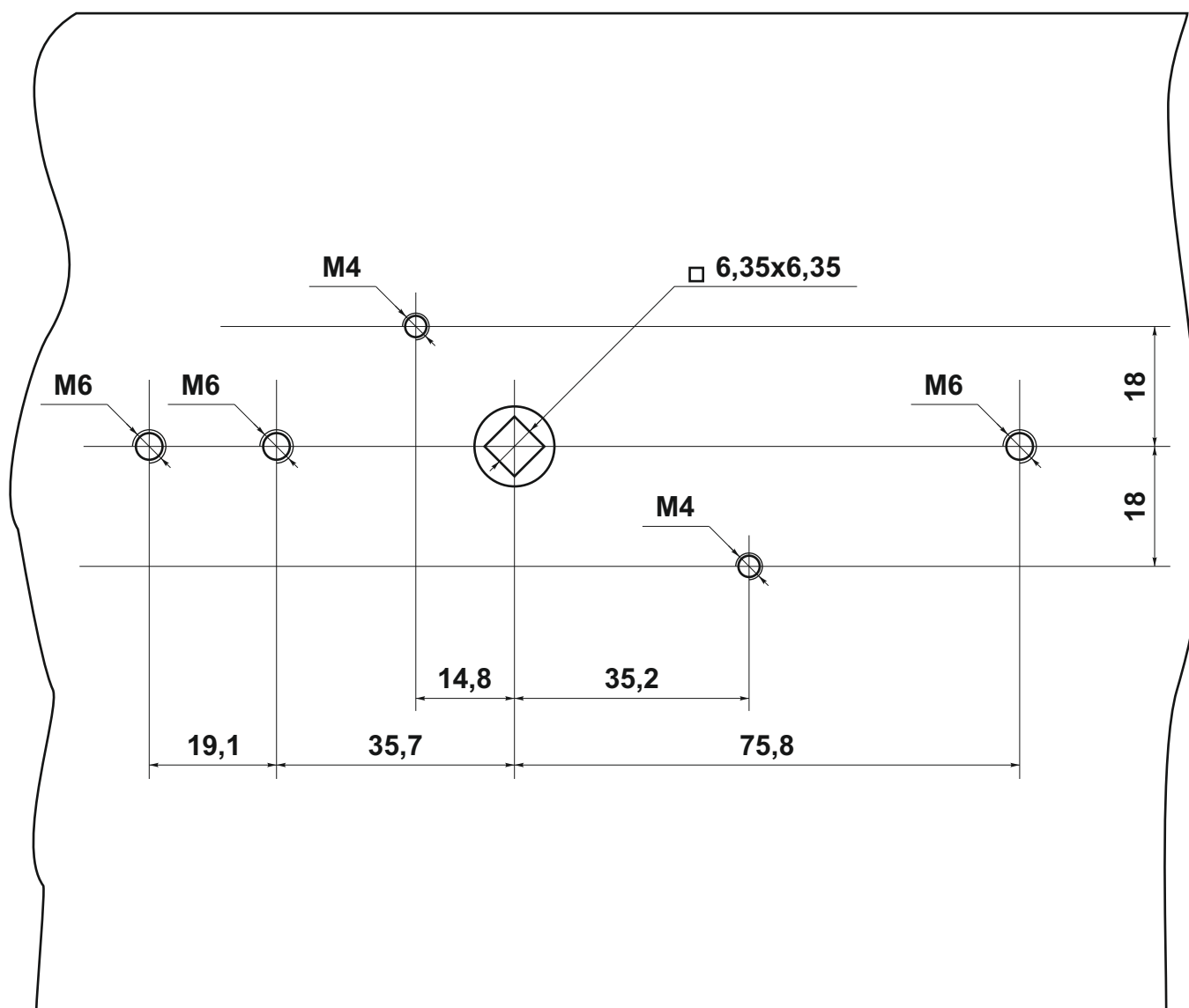
Dosing machine:

Supply voltage:	24V DC.
Consumption:	< 260W.
Electrical connection:	connector WEIPU SF1213/P3.
Electrical connection peripherals I:	connector WEIPU SF1210/P5.
Electrical connection peripherals II:	connector WEIPU SF1210/P4.
Electrical connection for turntable:	connector WEIPU SF1210/P3.
Output shaft:	square 6,35x6,35mm, L11mm.
Output shaft speed /adjustable/:	
- DOZZIT 3000:	800 .. 3000 rpm.
- DOZZIT 250:	70 .. 250 rpm.
- DOZZIT 140:	40 .. 140 rpm.
Output shaft speed ramp:	30% .. 70 % from the set one.
Starting ramp:	0% .. 30% from dose.
End ramp:	70% .. 100% from dose.
Output shaft torque /at max RPM/:	
- DOZZIT 3000:	max 0,5 Nm.
- DOZZIT 250:	max 4,5 Nm.
- DOZZIT 140:	max 8 Nm.
Mechanical connection of pump:	
- option 1	2xM4 /according to the attached drawing/.
- option 2	3xM6 /according to the attached drawing/.
Height adjustment stroke:	240mm.
Dimensions:	480mmW, 600mmH, 350mmD.
Machine weight:	21kg.

General:

Working temperature:	+5 .. +45°C.
Degree of protection:	IP20.
Storage conditions:	
- temperature:	-10 .. +70°C.
- humidity:	0 .. 85% RH.

Mechanical connection of pumps



Noise information.

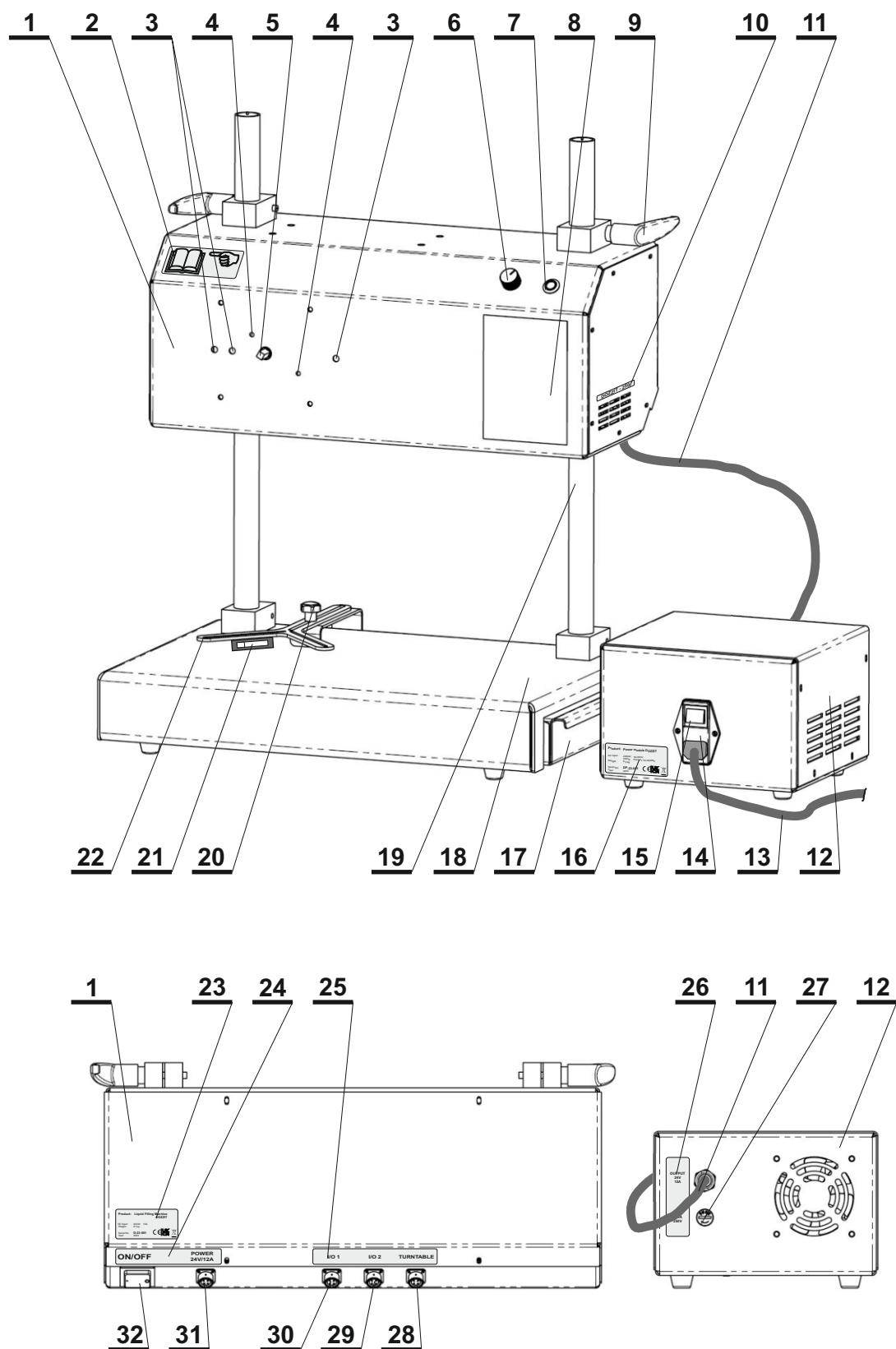
Noise level determined by analysis A.

Acoustic pressure level < 70dB (A).

Noise level < 70dB.

Equipment.

1. Main module - dosing machine.
2. Information label.
3. Mounting pump 1 - M6 /impeller, peristaltic, gear L/.
4. Mounting pump 2 - M4 /gear S/
5. Drive motor shaft.
6. Potentiometer-encoder manual motor speed adjustment.
7. 'START' button.
8. Display with setting buttons.
9. Adjustable screw-handle - fixing the main module.
10. Label of the model - motor RPM.
11. Power supply cable for the main module.
12. Power supply unit.
13. Power cable for the power supply unit.
14. Fuses for power supply unit /2x6,3A/250V/.
15. ON/OFF switch power supply unit.
16. Label - serial number power supply unit.
17. Accessory drawers.
18. Base.
19. Guide pipes.
20. Screw handle for micro switch.
21. Micro switch
22. Micro switch arm.
23. Label - serial number main module.
24. Label - connectors: power switch, power connector.
25. Label - connectors: I/O connectors, turntable.
26. Label - output power supply unit.
27. Output fuse supply unit /16A/250V/.
28. Connector turntable /3P - motor table/.
29. Connector I/O 2 /4P - control Homogenizer DOZZIT/.
30. Connector I/O 1 /5P - interlock 'START', sensor 'START', sensor for turntable, control by Scale DOZZIT/.
31. Connector power supply main module /3P/.
32. ON/OFF switch main module.



Proper use.

The machine is designed for filling and dosing liquids as well as creamy and gel-like products.

The control is via a microcontroller which allows for smooth and accurate dosing of the liquid by controlling the pump by time and speed. The number of doses is visualized on the display and can be reset manually. There are two dosing modes: manual and automatic.

In automatic mode, the machine performs a preset dose, and in manual mode it can be used as a filling pump at the discretion of the operator. The stored doses should be calibrated initially according to the viscosity of the dosed product.

A 'ramp' function is integrated to reduce the pump speed at the beginning and the end of the dose. This allows the start of the filling to be smooth with a lighter stream and at the end the delay allows the foam to subside. The ramp also favors the filling of containers with narrower shapes at the top.

The machine can be started by the 'START' button on the housing, a foot switch or another sensor connected to the I/O1 connector.

On the rear panel of the machine there are connectors for accessories and additional automation: direct control of the turntable /TURNTABLE, I/O1/, control of the homogenizer for mixing the fluid //O2/, control of the dose by weight from an external scale //O1/.

DozzIt 140 operates with a 140 rpm motor. Suitable for equipping with a peristaltic, impeller or small gear pump. Low speeds allow filling micro doses and dosing thick products.

DozzIt 250 operates with a 250 rpm motor. Suitable for equipping with a peristaltic, impeller or small gear pump. Higher speeds allow faster filling of both micro doses and creamy products.

DozzIt 3000 operates with a 3000 rpm motor. This base can only work with a small gear pump for filling liquid and cream products.

Any other use is considered improper and creates significant risks of accidents. The manufacturer assumes no liability for malfunctions and damage caused by use contrary to that described above.

The electrical protection of the machine is achieved by a protective cover for the current-carrying parts and the grounding of the metal housing. This requires the use of a correct electrical outlet. Overcurrent protection is achieved by fuses built into the machine. Their replacement must be carried out by qualified personnel



Attention!

Do not start the pumps without fluid!
There is a risk of damage!



Attention !

Do not dose fluids with a temperature below or above that defined in the technical data!

Do not dose fluids with solid particles and high viscosity!

Do not start the machine without a container placed under the dosing nozzle!

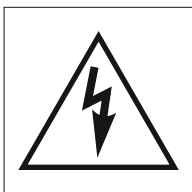
Do not place containers with an opening smaller than the dosing nozzle on the machine!

Do not use damaged containers. There is a risk of spillage and electric shock! Manual filling with fluid, maintenance and cleaning of the machine must only be carried out when the power is switched off!

Do not cover the ventilation openings of the machine! Be careful not to spill liquid on the machine!

Do not insert objects into the openings of the machine! There is a risk of electric shock!

Do not place your hand or fingers on the dosing nozzle! There is a risk of injury!



Attention !

In case of electric shock! Injury immediately disconnect the electrical supply through pulling the plug out of the socket!

Get medical attention immediately



Configured machines

DOZZIT Grain

Intended use.

The **DOZZIT Ggain** filling machine is designed for filling creamy and pasty products with hard or soft particles. Thanks to its Impeller pump, the machine can dose products with particles up to 8mm. Driven by a 250 rpm motor /option - 140 rpm/ the machine can perform both small and large doses depending on the consistency of the product. The impeller wheel scoops up more product between its blades which allows fast filling even at low speeds. It is available with two types of impeller wheels suitable for food industry and chemical products.

The standard equipment is a hose for supplying the pump /option - chrome-nickel funnel 3, 5, 12 or 30 liters/.

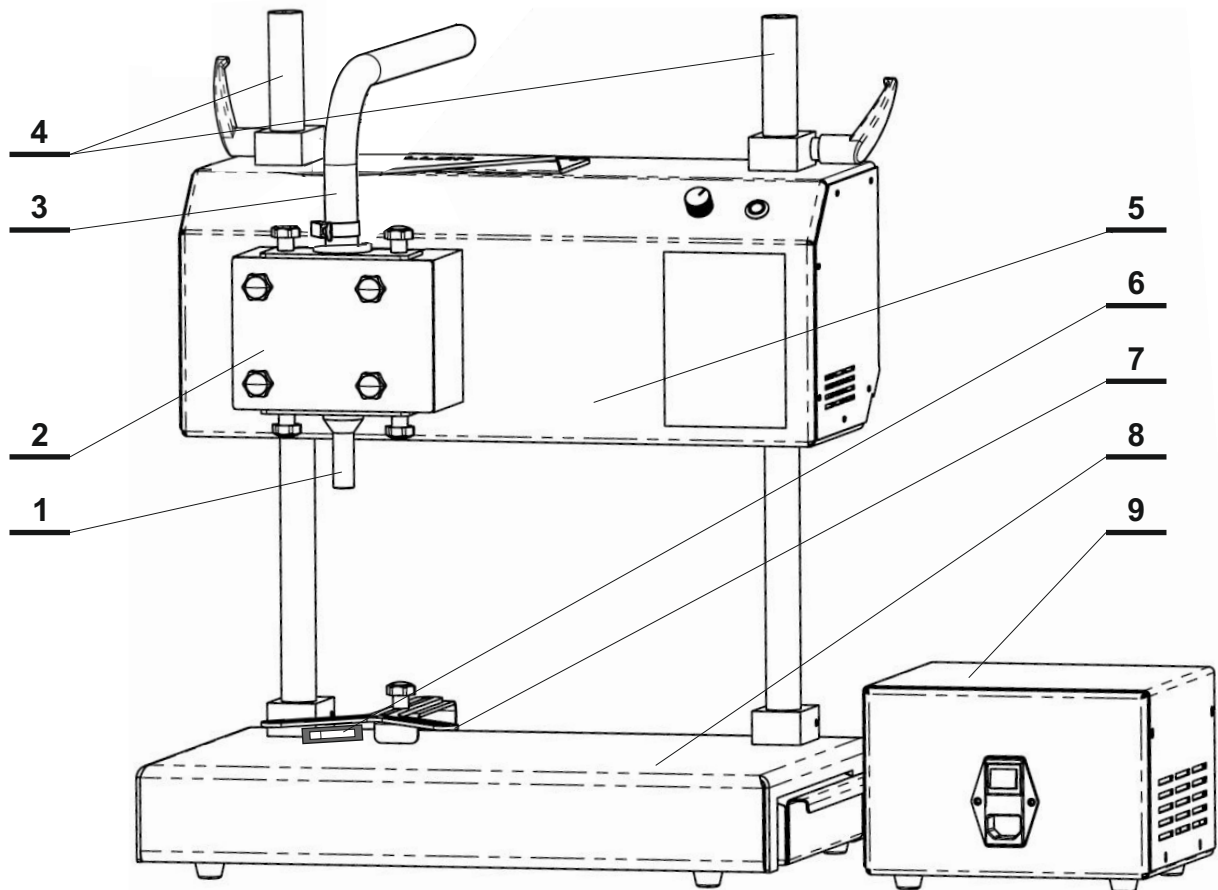
Before work, the pump must be bled.

Suitable for: tahini, pesto, ajvar, chutney, sauces, muesli, granulated cream products, etc.

Technical data.

Power supply unit:	230Vac, 50/60Hz.
Consumption supply unit:	< 330VA.
Output supply unit:	24Vdc, 12A.
Dimensions supply unit:	220mmW, 150mmH, 250mmD.
Weight supply unit:	8,5kg.
Supply voltage of the main module:	24Vdc.
Consumption main module:	< 260W.
Output shaft speed /adjustable/:	70 .. 250RPM /option 40 .. 140RPM/.
Output shaft torque:	max 4,5 Nm /at max. RPM/
Height adjustment stroke:	240mm.
Dimensions main module:	480mmW, 600mmH, 350mmD.
Weight of the main module /equipped/:	26kg.
Nominal load of the machine:	8 hours/day, 5 days/week.
Dose:	3 .. 4000 grams/milliliters.
Dose correction step:	
- up to 100 grams/milliliter:	0,5 grams/milliliters;
- over 100 grams/milliliter:	1 grams/milliliters.
Dosing accuracy:	+/- 2%.
Supply hose:	Ø19x4 food industry / 2meters
Pump type:	impeller.
Maximum pump capacity:	
Fluid temperature:	+2 .. +90°C.
Operating ambient temperature:	+5 .. +45°C.
Degree of protection:	IP20.
Storage conditions:	
- temperature:	-10 .. +70°C.
- humidity:	0 .. 85% RH.

Equipment.

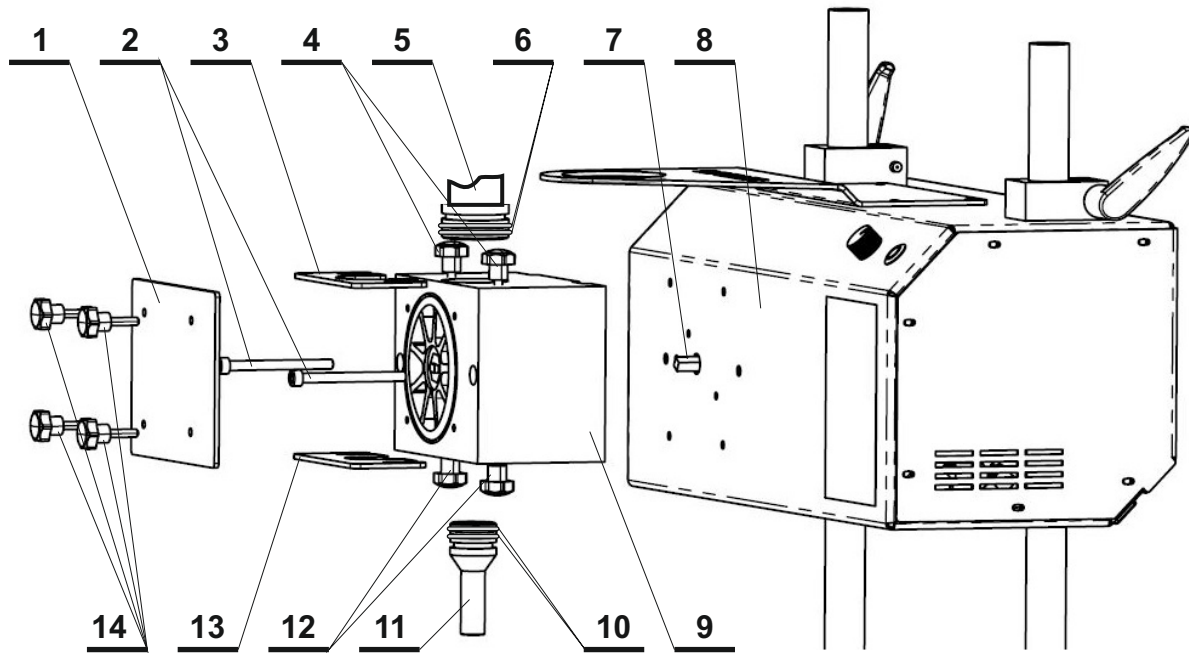


1. Outlet nozzle
 - outlet nozzle impeller Ø25/Ø20;
 - outlet nozzle impeller Ø15/Ø10.
2. Impeller pump.
3. Supply hose - included.
4. Guide pipes.
5. Main module DOZZIT 250 /DOZZIT 140 - option/.
6. Micro switch for starting.
7. Micro switch arm.
8. Base.
9. Power supply unit with power cable.

The equipment also includes::

- Foot switch;
- Pump bleeding kit.

Assembly / disassembly of impeller pump, nozzle, fluid supply



1. Impeller pump cover.
2. Pump mounting screw - 2pcs. M6x70 DIN912 A2.
3. Upper bracket for attaching the pump supply nozzle.
4. Upper bracket handle nut /supply nozzle/ - 2pcs. M5, Ø22.
5. Nozzle / hose / funnel / for supplying the pump.
6. Sealing 'O' ring for supply nozzle - 2pcs. 30x1.5 VMQ70.
7. Drive shaft of the dosing machine.
8. Main module DOZZIT 250 /DOZZIT 140 - option/.
9. Impeller pump body.
10. Sealing 'O' ring for dosing nozzle - 2pcs. 20x1.5 VMQ70.
11. Outlet nozzle.
12. Nut handle lower bracket /outlet nozzle/ - 2pcs. M5, Ø22.
13. Lower bracket for attaching outlet nozzle.
14. Screw-handle for mounting pump cover - 4pcs M5x16, Ø22.

Assembly / disassembly of the pump

On the front side of the pump unscrew the handles /pos.14/ and remove the cover /pos.1/.

The pump body /pos.9/ is placed on the shaft of the main module /pos.7/ - the square of the shaft should fall correctly into the intended seat in the pump. Orient it until the mounting holes match. Mount it to the main module of the dosing machine /pos.8/ using 2 screws /pos.2/. Tighten the screws.

Mount the pump cover /pos.1/ and tighten it with the screw-handles /pos.14/, having previously checked the seal of the cover and the installation of the impeller wheel for proper operation.

Disassembly of the pump is carried out in the reverse order.



Attention!

Before installing the pump the square of the output shaft of the main module and its bed at the rear of the pump are coated with lubricant - white grease for the food industry.

Disassembly / assembly of the supply nozzle.

On the upper part of the pump, loosen the nut-handles /pos.4/. The upper bracket /pos.3/ for securing the supply nozzle is pulled forward. The supply nozzle /pos.5/ is pulled up.

The assembly of the supply nozzle on the pump is carried out in the reverse order.



Attention!

When assembly the pump supply fitting be careful not to damage the sealing 'O' rings /pos.6/.

Disassembly / assembly of the outlet nozzle.

On the lower part of the pump, loosen the nut handles /pos.12/. The lower bracket /pos.13/ for securing the outlet nozzle is pulled forward. The outlet nozzle /pos.11/ is pulled down.

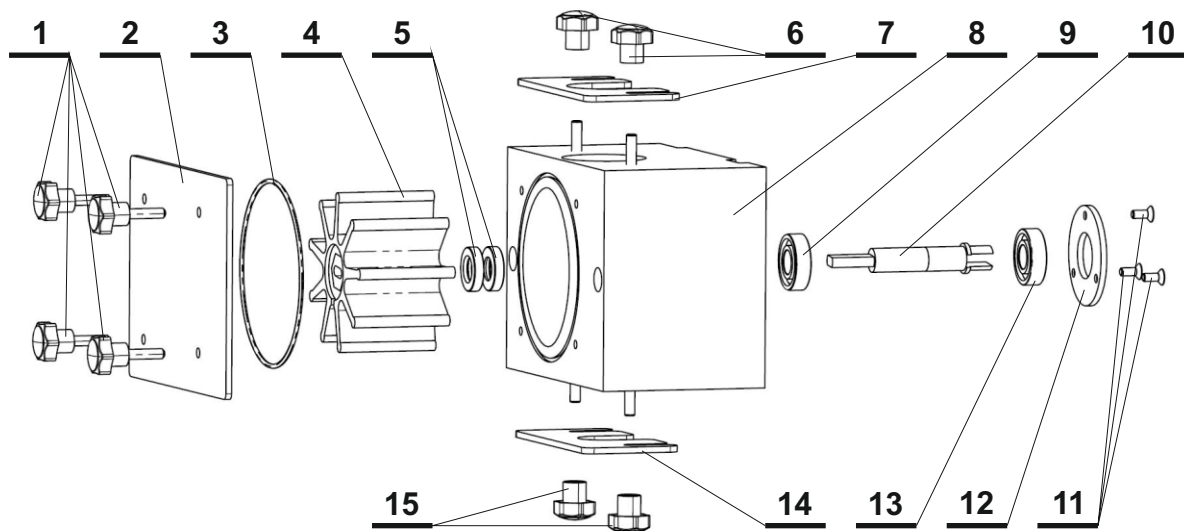
The assembly of the outlet nozzle of the pump is carried out in the reverse order.



Attention!

When assembly the pump outlet nozzle, be careful not to damage the sealing 'O' rings /pos.10/.

Impeller pump - disassembly / assembly, cleaning.



1. Screw-handle for mounting the pump cover - 4 pcs. M5x16, Ø22.
2. Impeller pump cover.
3. Cover seal - 1 pc. 'O' ring 90x2 VMQ70.
4. Impeller wheel.
5. Seal - 2 pcs. 12x22x5 NBR70
6. Nut handle upper bracket /supply nozzle/ - 2 pcs. M5, Ø22..
7. Upper bracket for attaching the supply nozzle.
8. Impeller pump body.
9. Front bearing - SS-6001RS (stainless).
10. Pump drive shaft.
11. Rear bearing cover screws - 3 pcs. M4x12 DIN965 A2.
12. Rear bearing cover.
13. Rear bearing - SS-6001RS (stainless).
14. Lower bracket for attaching the outlet nozzle.
15. Nut for the lower bracket handle /outlet nozzle/ - 2 pcs. M5.

Disassembly / assembly of the pump.

1. Remove the screw-handles /pos.1/.
2. Remove the impeller pump cover /pos.2/.
3. Carefully remove the cover seal - 'O' ring /pos.3/.
4. Remove the nut handles of the upper bracket for positioning the supply nozzle /pos.6/.
5. Remove the bracket for fastening the supply nozzle /pos.7/.
6. Remove the nut handles of the lower bracket for positioning the dosing nozzle /pos.15/.
7. Remove the bracket for positioning the supply nozzle /pos.14/.
8. Remove the impeller wheel /pos.4/ - pull it forward.
9. Remove the screws for securing the rear bearing cover /pos.11/.
10. Remove the rear bearing cover /pos.12/.
11. Remove the drive shaft /pos.10/ together with the rear bearing /pos.13 - knock them out backwards.
12. Remove the front bearing /pos.9/ - knock them out backwards.
13. Remove the oil seals /pos.5/ - knock them out forwards.

The pump is assembled in the reverse order. All components are installed until they stop.

New oil seals are installed - they are driven in opposite directions, with the flat sides outwards, sunk 0.1mm - 0.2mm below the level of the impeller wheel bed.

The impeller wheel is driven into the housing, with the blades in the narrowed area being bent in the direction of pump rotation /counterclockwise/. The double wall of the shaft must fall into the intended hole of the wheel.



Attention!

When installing the drive shaft in the oil seals protect their sealing edges from damage! The impeller wheel must not protrude above the pump body!

Cleaning the pump.

For basic cleaning of the pump perform the disassembly procedure up to point 8. Then clean it and reassemble in reverse order.

Configured machines

DOZZIT Flowing

Intended use.

The **DOZZIT Flowing** filling machine is designed for filling thin creams and gel-like products. The machine can dose 20 milliliters when the minimum dose depending on the viscosity of the product. Filling is done by a gear pump /S/ made of TECAPET driven by a 250 rpm motor.

The standard equipment is a 12 liter chrome-nickel funnel for feeding the pump /option - 3,5 or 30 liter chrome-nickel funnel/.

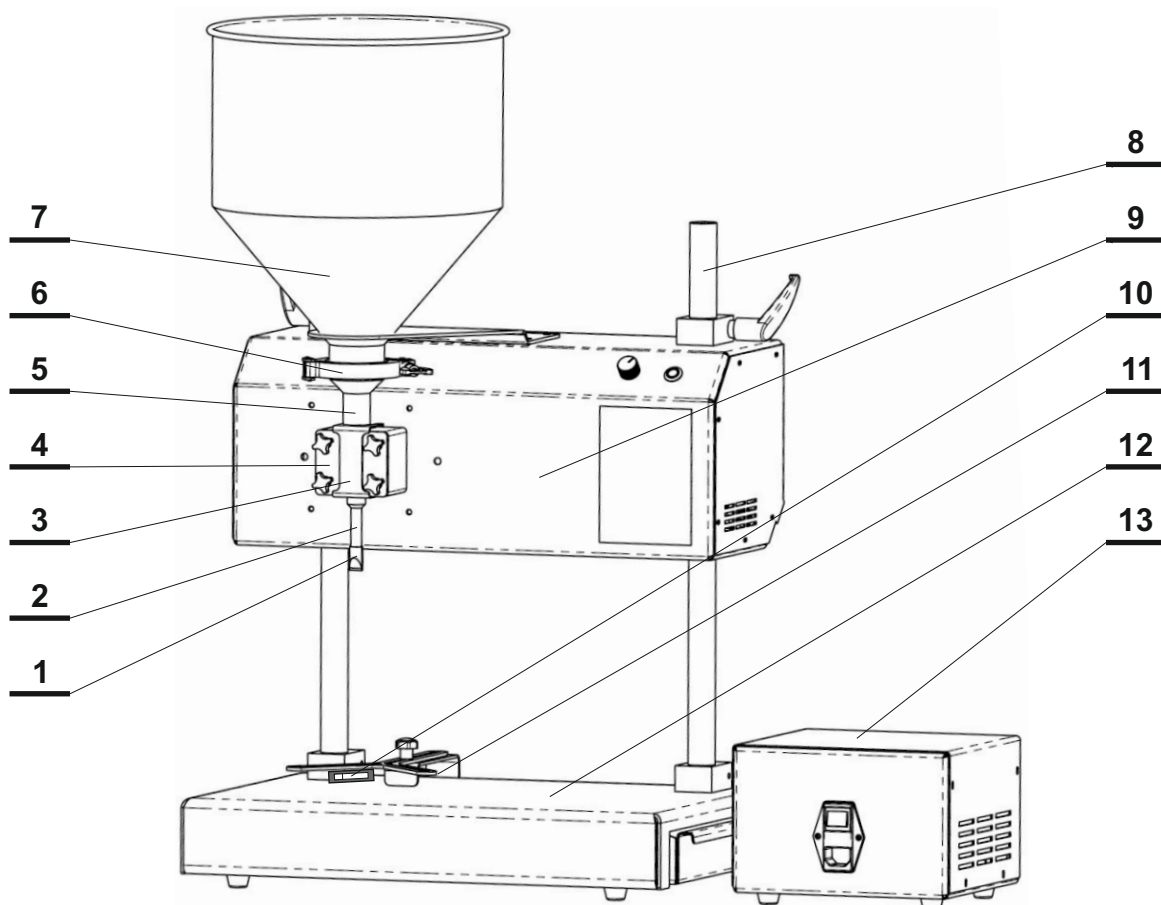
Before work, it is not necessary to bleed the pump.

Suitable for: cosmetic creams, pharmaceutical creams, etc.

Technical data.

Power supply unit:	230Vac, 50/60Hz.
Consumption supply unit:	< 330VA.
Output supply unit:	24Vdc, 12A.
Dimensions supply unit:	220mmW, 150mmH, 250mmD.
Weight supply unit:	8,5kg.
Supply voltage of the main module:	24Vdc.
Consumption main module:	< 260W.
Output shaft speed /adjustable/:	70 .. 250 rpm.
Output shaft torque:	max 4,5 Nm /at max RPM/.
Height adjustment stroke:	240mm.
Dimensions main module:	480mmW, 600mmH, 350mmD. /900mmH with funnel/
Weight of the main module /equipped/:	24kg.
Nominal load of the machine:	8 hours/day, 5 days/week.
Dose:	3 .. 4000 grams/milliliters;
Dose correction step:	
- up to 100 grams/milliliter:	0,5 grams/milliliters;
- over 100 grams/milliliter:	1 grams/milliliters;
Dosing accuracy:	+/- 2%.
Supply funnel:	12 liters.
Pump type:	gear pump - S.
Maximum pump capacity:	
Fluid temperature:	+2 .. +90°C.
Operating ambient temperature:	+5 .. +45°C.
Degree of protection:	IP20.
Storage conditions:	
- temperature:	-10 .. +70°C.
- humidity:	0 .. 85% RH.

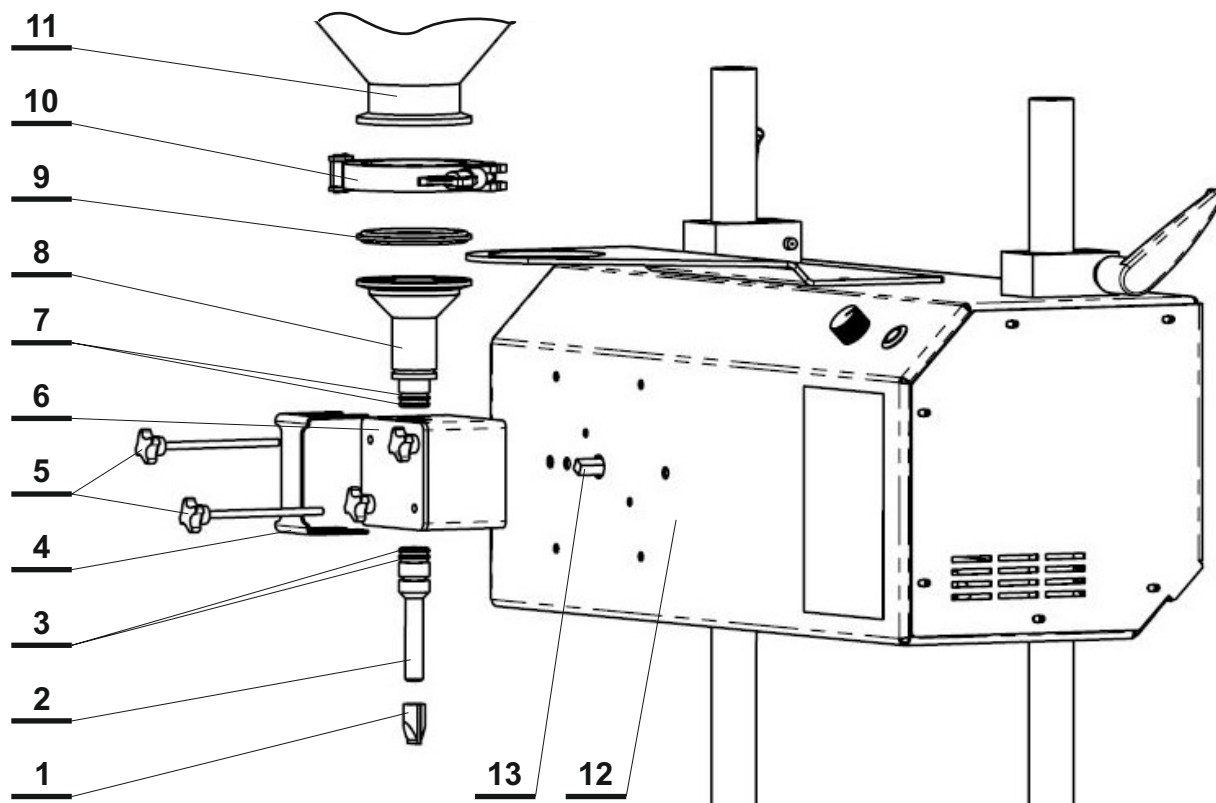
Equipment.



1. Wedge nozzle soft /Ø10, Ø15/.
2. Outlet nozzle
 - outlet nozzle - gear pump 'S' Ø5/Ø3;
 - outlet nozzle - gear pump 'S' Ø10/Ø7;
 - outlet nozzle - gear pump 'S' Ø15/Ø10.
3. Locking bracket.
4. Gear pump S.
5. Pump nozzle
 - funnel /for clamp joint/.
6. Clamp joint 2".
7. Funnel.
8. Guide pipes.
9. Main module DOZZIT 250.
10. Micro switch for starting.
11. Micro switch arm.
12. Base.
13. Power supply unit with power cable.

The equipment also includes:
- Start foot switch.

Assembly / disassembly gear pump /S/, nozzle, fluid supply



1. Wedge nozzle soft
2. Outlet nozzle
3. Sealing 'O' ring for outlet nozzle - 2pcs. 12x1.5 OR VMQ70.
4. Locking bracket.
5. Screw-handle for pump installation - 2pcs. M4x70 Ø19.
6. Gear pump S.
7. Sealing 'O' ring for feed nozzle - 2pcs. 12x1.5 OR VMQ70.
8. Nozzle / funnel-pump / for feeding the pump.
9. Clamp joint gasket.
10. Clamp joint 2".
11. Feed funnel /12 liters/.
12. Main module DOZZIT 250.
13. Drive shaft of the dosing machine.

Disassembly / assembly of the pump.

The screw-handles /pos.5/ for mounting the pump and the locking bracket /pos.4/ are removed from the pump.

The pump body /pos.6/ is placed on the shaft of the main module /pos.13/ - the square of the shaft should fall correctly into the intended bed in the pump. It is oriented until the mounting holes match. It is mounted to the main module of the dosing machine /pos.12/ by means of 2 screw-handles /pos.5/. The screw-handles are tightened.

The locking bracket is mounted after the installation of the outlet nozzle and the pump supply nozzle.

The disassembly of the pump is carried out in the reverse sequence.



Attention!

Before installing the pump the square of the output shaft of the main module and its bed at the rear of the pump are coated with lubricant - white grease for the food industry.

Disassembly / assembly of the supply nozzle.

The feed funnel is removed from the machine - the clamp joint /pos.10/ is detached and the funnel /pos.11/ is lifted up. The gasket for the clamp joint /pos.9/ is also removed.

The locking bracket /pos.4/ is removed from the pump. The feed nozzle /pos.8/ is pulled up.

The installation of the pump feed nozzle is carried out in the reverse order.

The locking bracket is installed after the installation of the outlet nozzle and the pump feed nozzle.



Attention!

When installing the pump supply end, be careful not to damage the sealing 'O' rings /pos.7/.

The clamp joint must be well centered.

Disassembly / assembly of the outlet nozzle.

Remove the locking bracket /pos.4/ from the pump. Pull the outlet nozzle /pos.2/ down.

The outlet nozzle is installed in the reverse order.

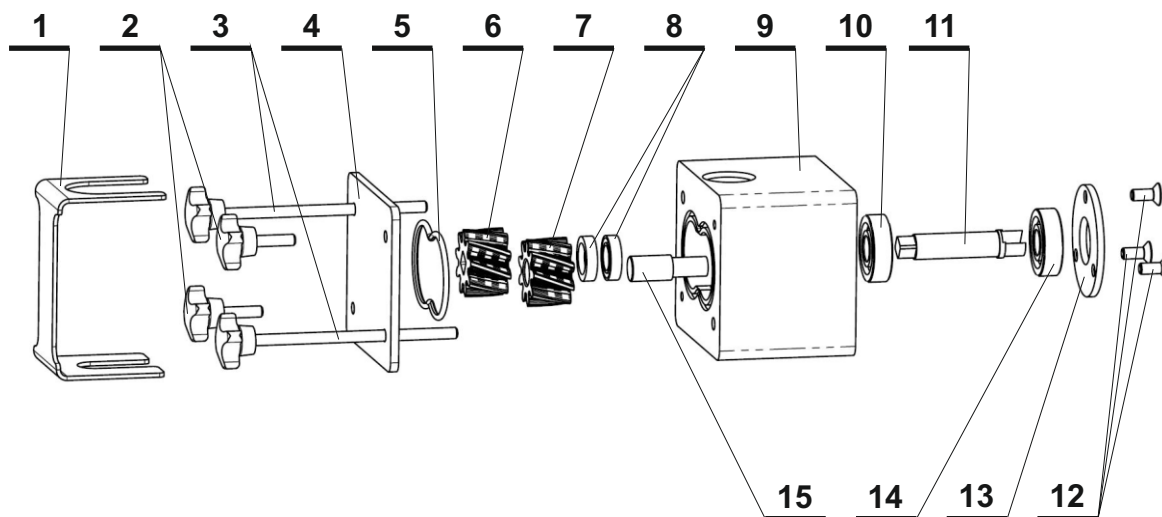
The locking clip is installed after the outlet nozzle and the pump supply nozzle have been installed.



Attention!

When installing the pump outlet nozzle, be careful not to damage the sealing 'O' rings /pos.3/.

Gear pump /S/ - disassembly / assembly, cleaning.



1. Locking bracket.
2. Screw-handle for mounting the pump cover - 2pcs. M4x15, Ø19.
3. Screw-handle for mounting the gear pump S - 2pcs. M4x70, Ø19.
4. Gear pump cover.
5. Cover seal - 1pc. 'O' ring 40x1.5 OR VMQ70.
6. Drive gear wheel.
7. Driven gear wheel.
8. Oil seal - 2pcs. 9x16x4 NBR70.
9. Gear pump S housing.
10. Front bearing - 609 2RS INOX 9x24x7.
11. Drive shaft.
12. Rear bearing cover screws - 3pcs. M4x12 DIN965 A2.
13. Rear bearing cover.
14. Rear bearing - 609 2RS INOX 9x24x7.
15. Shaft.

Disassembly / assembly of the pump.

1. Remove the locking bracket /pos.1/ and the screw-handles /pos.3/
2. Remove the screw-handles /pos.2/.
3. Remove the gear pump cover /pos.4/.
4. Carefully remove the cover seal - 'O' ring /pos.5/.
5. Remove the driven gear /pos.7/ - pull it forward.
6. Remove the driving gear /pos.6/ - pull it forward.
7. Remove the driven gear shaft /pos.15/ - pull it forward.
8. Remove the screws for fastening the rear bearing cover /pos.12/.
9. Remove the rear bearing cover /pos.13/.
10. Remove the drive shaft /pos.11/ together with the rear bearing /pos.14/ - knock them out backwards.
11. Remove the front bearing /pos.10/ - knock them out backwards.
12. Remove the oil seals /pos.8/ - knock them out forwards.

The pump is assembled in the reverse order. All components are installed until they stop.

New oil seals are installed - they are driven in opposite directions, with the flat sides outwards, sunk 0.1mm - 0.2mm below the level of the gear bed.

The gears must enter without tightening. The square of the shaft must fall into the intended hole of the drive wheel.



Attention!

When installing the drive shaft in the oil seals protect their sealing edges from damage! The gear wheels must not protrude above the pump body!

Cleaning the pump.

For basic cleaning of the pump perform the disassembly procedure up to point 6. Then clean it and reassemble in reverse order.

Configured machines

DOZZIT Rare

Intended use.

The **DOZZIT Rare** filling machine is designed for filling of liquid and oily products in doses, with direct suction from a container. Filling is done by a gear pump /S/ made of TECAPET driven by a 3000 rpm motor. It allows for quick filling of doses from 200 to 8000 milliliters.

The standard equipment is a complete hose for feeding the pump with a check valve and filter /option - chrome-nickel funnel 3, 5, 12 or 30 liters/.

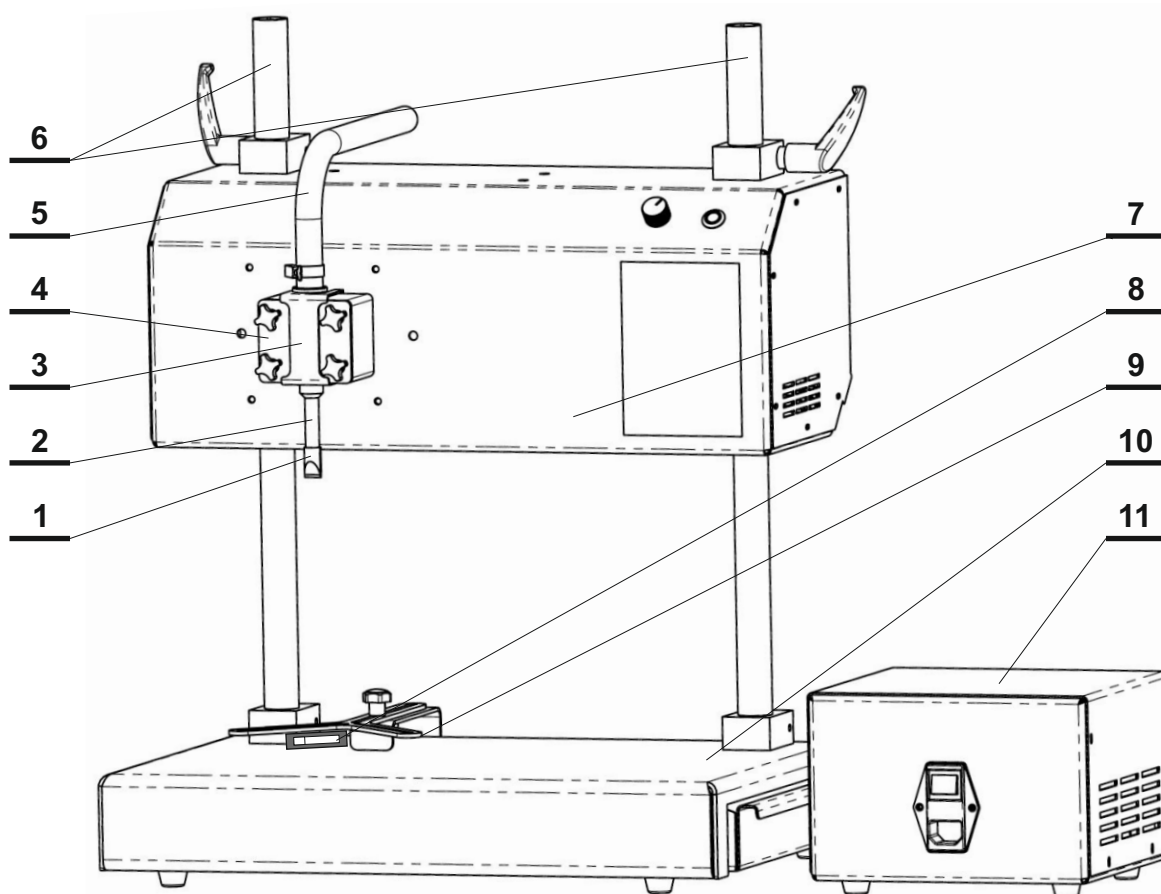
Before work, the pump must be bled.

Suitable for: cosmetic, chemical, food industry.

Technical data.

Power supply unit:	230Vac, 50/60Hz.
Consumption supply unit:	< 330VA.
Output supply unit:	24Vdc, 12A.
Dimensions supply unit:	220mmW, 150mmH, 250mmD.
Weight supply unit:	8,5kg.
Supply voltage of the main module:	24Vdc.
Consumption main module:	< 260W.
Output shaft speed /adjustable/:	800 .. 3000RPM.
Output shaft torque:	max 0,5 Nm /at max RPM/.
Height adjustment stroke:	240mm.
Dimensions main module:	480mmW, 600mmH, 350mmD.
Weight of the main module /equipped/:	24kg.
Nominal load of the machine:	8 hours/day, 5 days/week.
Dose:	25 .. 8000 grams/milliliters;
Dose correction step:	
- up to 100 grams/milliliter:	0,5 grams/milliliters;
- over 100 grams/milliliter:	1 grams/milliliters;
Dosing accuracy:	+/- 2%.
Supply hose:	Ø12,7x4 / 2,5 meters.
Pump type:	gear pump - S.
Maximum pump capacity:	7 liters / minute.
Fluid temperature:	+2 .. +90°C.
Operating ambient temperature:	+5 .. +45°C.
Degree of protection:	IP20.
Storage conditions:	
- temperature:	-10 .. +70°C.
- humidity:	0 .. 85% RH.

Equipment.

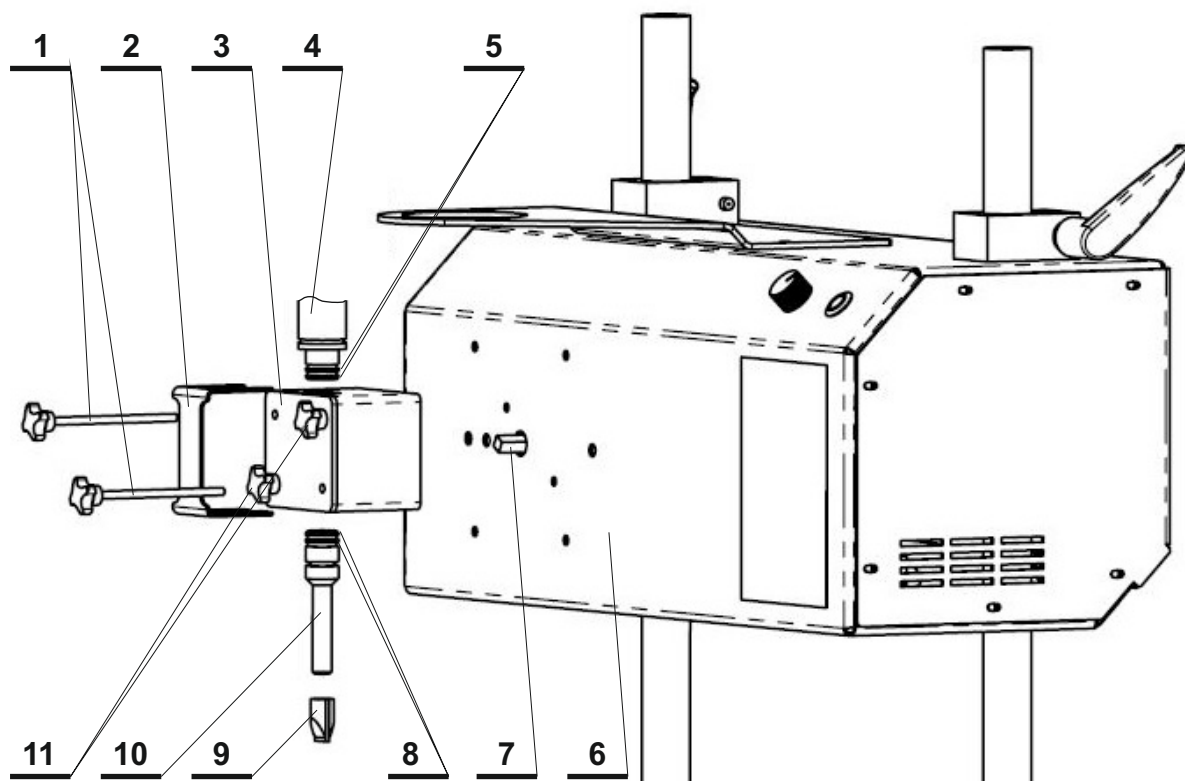


1. Wedge nozzle soft /Ø10, Ø15/.
2. Outlet nozzle
 - outlet nozzle - gear pump 'S' Ø5/Ø3;
 - outlet nozzle - gear pump 'S' Ø10/Ø7;
 - outlet nozzle - gear pump 'S' Ø15/Ø10.
3. Locking bracket.
4. Gear pump S.
5. Supply hose - complete /non-return valve, filter/.
6. Guide pipes.
7. Main module DOZZIT 3000.
8. Micro switch for starting.
9. Micro switch arm.
10. Base.
11. Power supply unit with power cable.

The equipment also includes:

- Start foot switch.
- Pump bleeding kit.

Assembly / disassembly gear pump /S/, nozzle, fluid supply. .



1. Screw-handle for pump installation - 2pcs. M4x70 Ø19.
2. Locking bracket.
3. Gear pump S cover / housing.
4. Nozzle / hose / funnel / for feeding the pump.
5. Sealing 'O' ring for feed nozzle - 2pcs. 12x1.5 OR VMQ70.
6. Main module DOZZIT 3000.
7. Drive shaft of the dosing machine.
8. Sealing 'O' ring for outlet nozzle - 2pcs. 12x1.5 OR VMQ70.
9. Wedge nozzle soft
10. Outlet nozzle
11. Screw-handle for pump cover installation - 2pcs. M4x15 Ø19.

Disassembly / assembly of the pump.

The screw-handles /pos.1/ for mounting the pump and the locking bracket /pos.2/ are removed from the pump.

The pump body /pos.3/ is placed on the shaft of the main module /pos.7/ - the square of the shaft should fall correctly into the intended bed in the pump. It is oriented until the mounting holes match. It is mounted to the main module of the dosing machine /pos.6/ by means of 2 screw-handles /pos.1/. The screw-handles are tightened.

The locking bracket is mounted after the installation of the outlet nozzle and the pump supply nozzle.

The disassembly of the pump is carried out in the reverse sequence.



Attention!

Before installing the pump the square of the output shaft of the main module and its bed at the rear of the pump are coated with lubricant - white grease for the food industry.

Disassembly / assembly of the supply nozzle.

Remove the locking clip /pos.2/ from the pump. Pull the supply nozzle /pos.4/ upwards.

The pump feed nozzle is installed in the reverse order.

The locking bracket is installed after the installation of the outlet nozzle and the pump feed nozzle.



Attention!

When installing the pump supply end, be careful not to damage the sealing 'O' rings /pos.5/.

Disassembly / assembly of the outlet nozzle.

Remove the locking bracket /pos.2/ from the pump. Pull the outlet nozzle /pos.10/ down.

The outlet nozzle is installed in the reverse order.

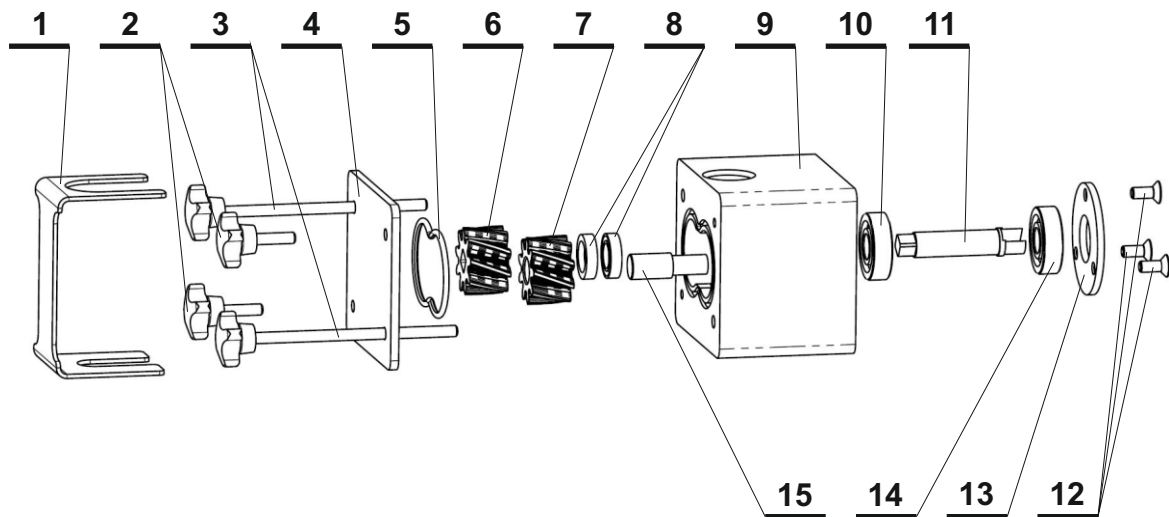
The locking bracket is installed after the outlet nozzle and the pump supply nozzle have been installed.



Attention!

When installing the pump outlet nozzle, be careful not to damage the sealing 'O' rings /pos.8/.

Gear pump /S/ - disassembly / assembly, cleaning.



1. Locking bracket.
2. Screw-handle for mounting the pump cover - 2pcs. M4x15, Ø19.
3. Screw-handle for mounting the gear pump S - 2pcs. M4x70, Ø19.
4. Gear pump cover.
5. Cover seal - 1pc. 'O' ring 40x1.5 OR VMQ70.
6. Drive gear wheel.
7. Driven gear wheel.
8. Oil seal - 2pcs. 9x16x4 NBR70.
9. Gear pump S housing.
10. Front bearing - 609 2RS INOX 9x24x7.
11. Drive shaft.
12. Rear bearing cover screws - 3pcs. M4x12 DIN965 A2.
13. Rear bearing cover.
14. Rear bearing - 609 2RS INOX 9x24x7.
15. Shaft.

Disassembly / assembly of the pump.

1. Remove the locking bracket /pos.1/ and the screw-handles /pos.3/
2. Remove the screw-handles /pos.2/.
3. Remove the gear pump cover /pos.4/.
4. Carefully remove the cover seal - 'O' ring /pos.5/.
5. Remove the driven gear /pos.7/ - pull it forward.
6. Remove the driving gear /pos.6/ - pull it forward.
7. Remove the driven gear shaft /pos.15/ - pull it forward.
8. Remove the screws for fastening the rear bearing cover /pos.12/.
9. Remove the rear bearing cover /pos.13/.
10. Remove the drive shaft /pos.11/ together with the rear bearing /pos.14/ - knock them out backwards.
11. Remove the front bearing /pos.10/ - knock them out backwards.
12. Remove the oil seals /pos.8/ - knock them out forwards.

The pump is assembled in the reverse order. All components are installed until they stop.

New oil seals are installed - they are driven in opposite directions, with the flat sides outwards, sunk 0.1mm - 0.2mm below the level of the gear bed.

The gears must enter without tightening. The square of the shaft must fall into the intended hole of the drive wheel.



Attention!

When installing the drive shaft in the oil seals protect their sealing edges from damage! The gear wheels must not protrude above the pump body!

Cleaning the pump.

For basic cleaning of the pump perform the disassembly procedure up to point 6. Then clean it and reassemble in reverse order.

Configured machines

DOZZIT Essence

Intended use.

The **DOZZIT Essence** filling machine is designed for filling highly aromatic and aggressive products /perfumes, essential oils, etc./ in micro and small doses from 5ml to 100ml. Filling is done by a peristaltic pump, driven by a 250 rpm motor /option - 140 rpm/, which ensures hygiene and high dosing accuracy. Cleaning is easy and fast - the fluid only touches the silicone hose and the outlet nozzle. The variety of hose diameters and materials allows covering a wide range of micro and small doses, of highly acidic, alkaline and other aggressive products.

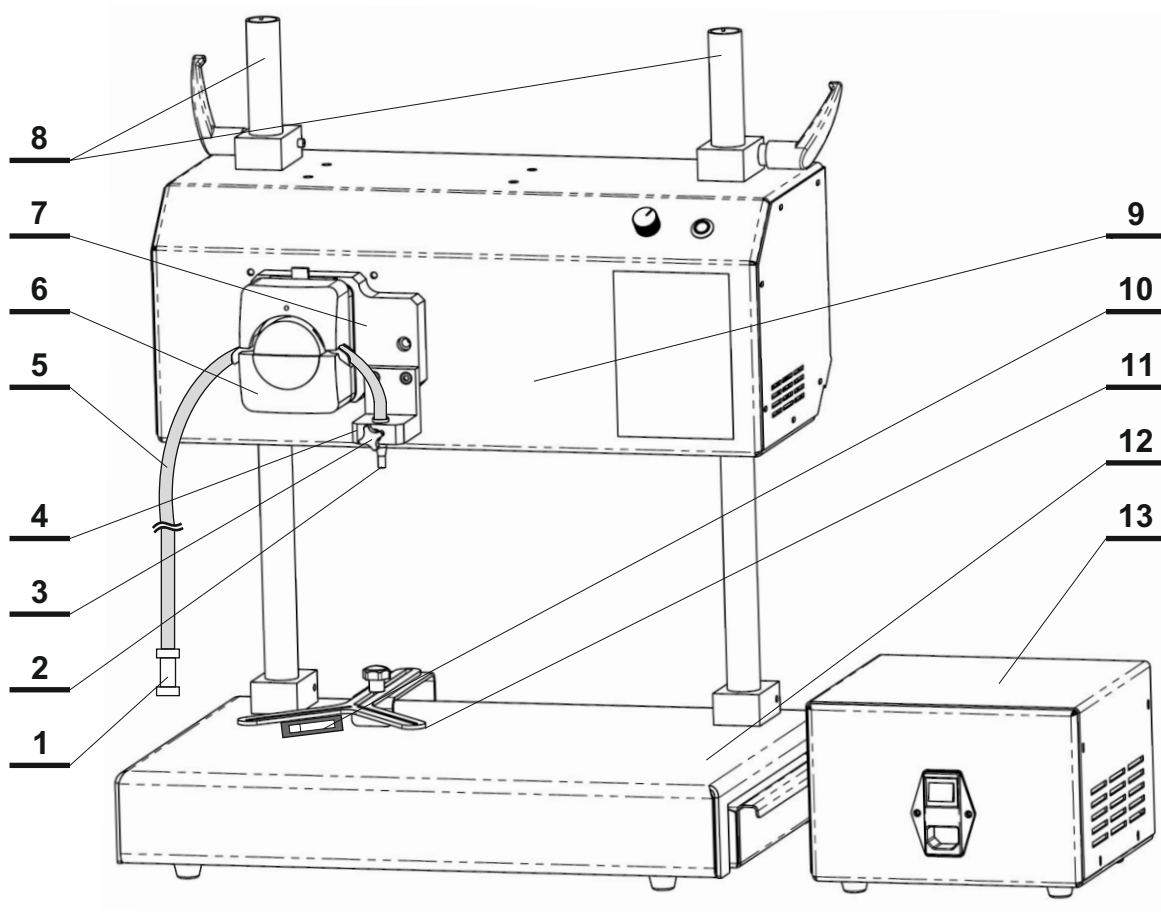
No pre-bleeding is required before operation - the pump is self-priming.

Suitable for: cosmetic, chemical, food industry.

Technical data.

Power supply unit:	230Vac, 50/60Hz.
Consumption supply unit:	< 330VA.
Output supply unit:	24Vdc, 12A.
Dimensions supply unit:	220mmW, 150mmH, 250mmD.
Weight supply unit:	8,5kg.
Supply voltage of the main module:	24Vdc.
Consumption main module:	< 260W.
Output shaft speed /adjustable/:	70 .. 250RPM /option 40 .. 140RPM/.
Output shaft torque:	max 4,5 Nm /at max RPM/.
Height adjustment stroke:	240mm.
Dimensions main module:	480mmW, 600mmH, 350mmD.
Weight of the main module /equipped/:	23kg.
Nominal load of the machine:	8 hours/day, 5 days/week.
Dose:	3 .. 4000 grams/milliliters;
Dose correction step:	
- up to 100 grams/milliliter:	0,5 grams/milliliters;
- over 100 grams/milliliter:	1 grams/milliliters;
Dosing accuracy:	+/- 2%.
Supply hose:	1 meter.
Pump type:	peristaltic.
Maximum pump capacity:	
Fluid temperature:	+2 .. +90°C.
Operating ambient temperature:	+5 .. +45°C.
Degree of protection:	IP20.
Storage conditions:	
- temperature:	-10 .. +70°C.
- humidity:	0 .. 85% RH.

Equipment.



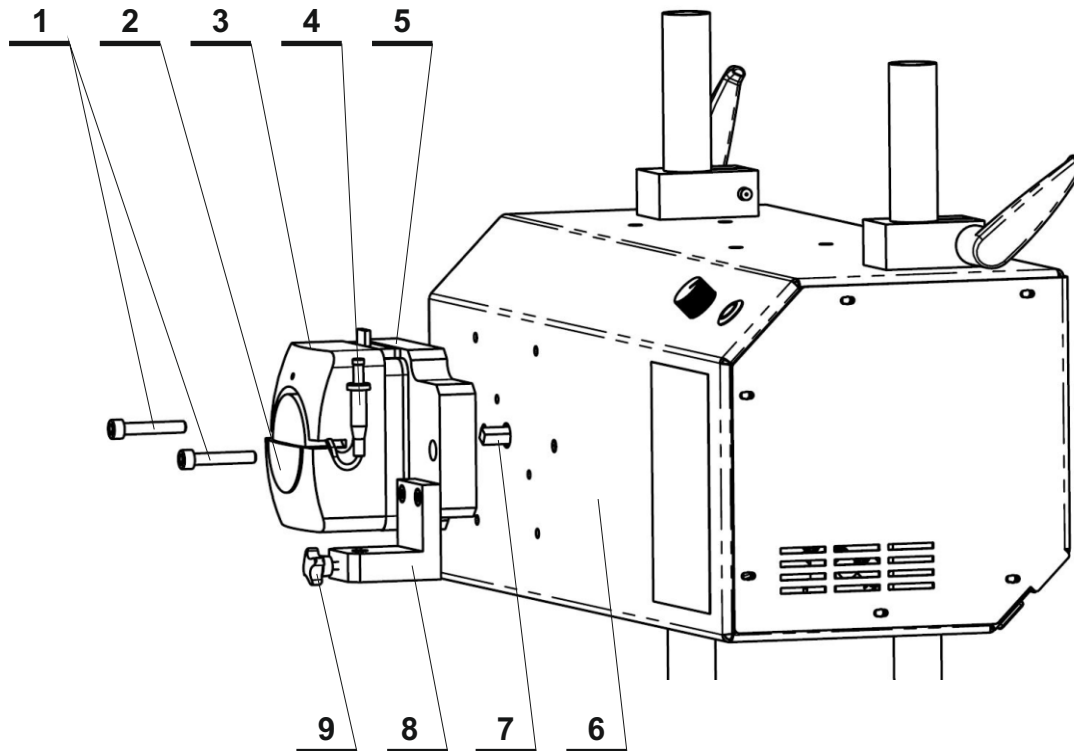
1. Suction nozzle.
2. Outlet nozzle
3. Screw-handle for fastening the nozzle - 1 pc. M4x15, Ø19
4. Outlet nozzle grip.
5. Peristaltic pump hose.
6. Peristaltic pump.
7. Transition base.
8. Guide pipes.
9. DOZZIT 250 main module.
10. Micro switch for starting.
11. Micro switch arm.
12. Base.
13. Power supply unit with power cable.

Also included in the equipment

- Start-brake;
- Hoses, nozzles, suction nozzles:

Hose Ø3.2x1.6,	outlet nozzle - Ø5/Ø3,	suction nozzle;
Hose Ø4.8x1.6,	outlet nozzle - Ø6/Ø4,	suction nozzle;
Hose Ø6x1.6,	outlet nozzle - Ø7/Ø5,	suction nozzle.
Hose Ø8x1.6,	outlet nozzle - Ø8/Ø6,	suction nozzle.

Assembly / disassembly of peristaltic pump, dosing hose with nozzle.



1. Screw for mounting the pump to the machine - 2 pcs. . M6x35 DIN912 A2.
2. Peristaltic pump.
3. Cover locking the peristaltic pump.
4. Outlet nozzle.
5. Transitional base.
6. Main module of the dosing machine DOZZIT 250.
7. Drive shaft of the dosing machine.
8. Outlet nozzle holder.
9. Screw-handle for mounting the outlet nozzle - 1 pc. M4x15, Ø19.

Disassembly / assembly of the pump.

Before installation, the peristaltic pump /pos.2/ and outlet nozzle grip /pos.8/ must be mounted to the adapter base /pos.5/ according to the 'Pump' section. There must be no loose silicone hose in the pump.

The pump body /pos.3/ is placed on the shaft of the dispenser /pos.7/ - the square of the shaft must fall correctly into the intended seat in the adapter base. It is oriented until the mounting holes match. It is mounted to the main module of the dosing machine /pos.6/ using 2 M6 screws /pos.1/ The screws are tightened.

The disassembly of the pump is carried out in the reverse sequence.



Attention!

Before installing the pump the square of the output shaft of the main module and its bed in the threaded part of the transitional base are coated with lubricant - white grease for food industry.

Assembly / disassembly of a silicone hose with an outlet nozzle and a suction nozzle.

The desired size of the silicone hose must be equipped with an outlet nozzle and a suction nozzle.

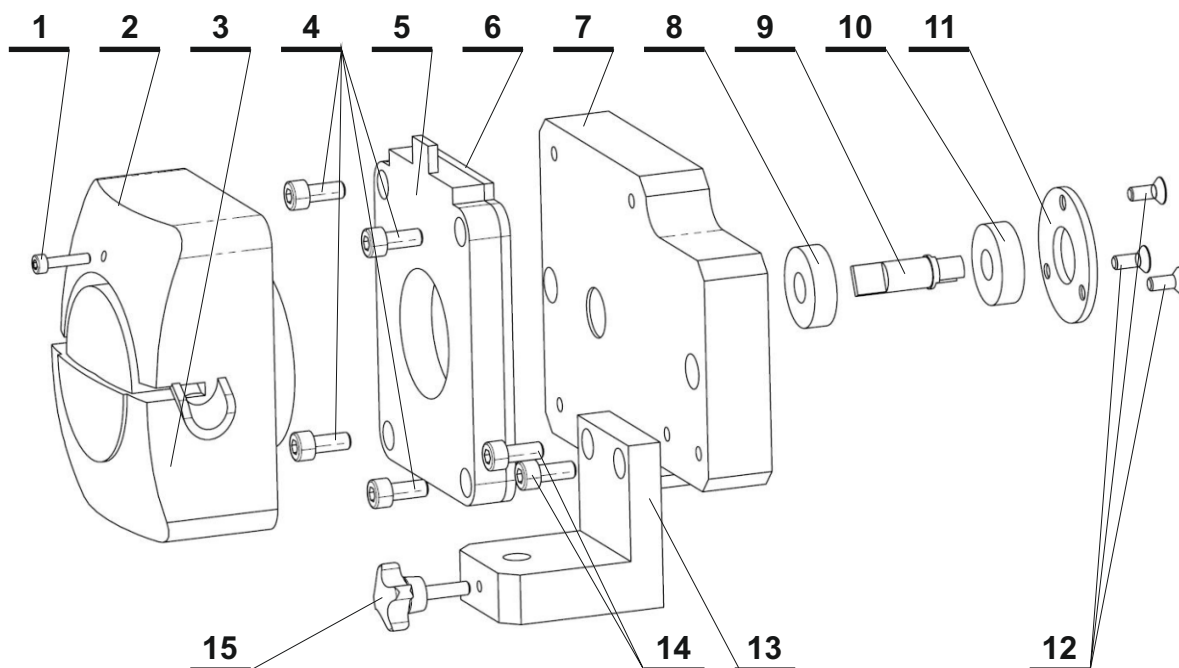
Lift the locking cover of the peristaltic pump /pos.3/ to the end position. Loosen the screw-handle for mounting the nozzle /pos.9/. The outlet nozzle is placed in the intended hole of the nozzle grip /pos.8/ - up to the stop. Tighten with the screw-handle. The hose is placed in the peristaltic pump centered on the rollers and locked with the locking cover.



Attention!

The use of hoses other than those provided in the kit may result in damage and/or incorrect operation of the pump.

Peristaltic pump - disassembly / assembly, cleaning.



1. Screw for fixing the pump - 1 pc. M4x12 /from the pump kit/.
2. Peristaltic pump locking cover.
3. Peristaltic pump body.
4. Screw for mounting the base and damper of the peristaltic pump - 4 pcs. M4x20
DIN912 A2.
5. Peristaltic pump base.
6. Peristaltic pump damper.
7. Transitional base.
8. Front bearing - 609 2RS INOX 9x24x7.
9. Drive shaft.
10. Rear bearing - 609 2RS INOX 9x24x7.
11. Rear bearing cover.
12. Rear bearing cover screws - 3 pcs. M4x12 DIN965 A2.
13. Outlet nozzle clamp.
14. Screw for mounting outlet nozzle clamp - 2pcs. M4x20 DIN912 A2.
15. Screw-handle for mounting outlet nozzle - 1pc. M4x15, Ø19.

Disassembly / assembly of the pump.`

1. Lift the locking cover of the peristaltic pump /pos.2/ to the end position.
2. Loosen the screw-handle for mounting the outlet nozzle /pos.15/.
3. Remove the outlet nozzle with the hose and the suction nozzle.
4. Remove the screw /pos.1/ under the locking cover - remove it completely.
5. Close the locking cover /pos.2/, turn the peristaltic pump body /pos.3/ counterclockwise until it stops and pull it forward. The pump body can not be disassembled.
6. Remove the screws /pos.4/ and remove the base of the peristaltic pump /pos.5/ and the damper /pos.6/.
7. Remove the screws /pos.14/ and remove the outlet nozzle grip /pos.13/. Also remove the screw-handle for mounting the outlet nozzle /pos.15/.
8. Remove the screws for securing the rear bearing cover /pos.12/.
9. Remove the rear bearing cover /pos.11/.
10. Remove the drive shaft /pos.9/ together with the rear bearing /pos.10/ - knock them out backwards.
11. Remove the front bearing /pos.8/ - knock them out backwards.

The pump is assembled in the reverse order. All components are installed until they stop.

The double wall of the shaft must fall into the intended hole of the damper on the axis of the peristaltic pump body.



Attention!

During installation the screws for mounting the base and the peristaltic pump damper /pos.4/ to the adapter base /pos.7/ are tightened moderately.

Cleaning of the pump.

Only the hose, the outlet nozzle and the suction nozzle have contact with the fluid.

For cleaning, the disassembly procedure up to point 3 of the previous procedure is performed, cleaning and assembly in reverse order.

Maintenance and cleaning



Attention! Risk of injury!

Always disconnect the plug from the socket before performing any work on the machine.

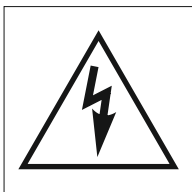
The labeling machine does not require any technical maintenance within the specified service life.

Clean the machine after finishing the job.

Use a brush or a dry cloth. Do not use solvents to clean the cabinet and face panel.

Technical alcohol may be used to clean the shafts. No liquids should enter the machine.

Make sure that the vents are always clear.



If detergent gets into your eyes, wash it immediately with water!

If discomfort or vision problems continue, seek medical attention!

In the event of electric shock or injury, disconnect the power supply immediately by pulling the plug out of the socket!

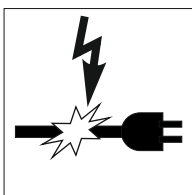
Get medical attention immediately

Service



Attention!

Have the machine serviced by qualified personnel only and only use original spare parts. This guarantees the safety of the machine.



If the power cord is damaged, replace it with a new one. This ensures the protection against electric shock and guarantees the safety of the machine.

Delivery.

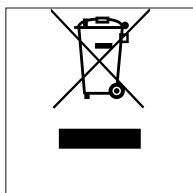


Attention!

Transport the machine to be done in its original packaging. Use the original reinforcing materials.

Avoid tilting or tipping the machine. Keep away from getting wet and hit.

Disposal.



The packaging is made from environmentally friendly materials that you can hand over for recycling

Do not dispose of electrical appliances with household waste!

According to European Union Directive 2002/96 / EU, end-of-life electrical appliances must be collected separately and disposed of for recycling in accordance with environmental protection requirements.

Notes

This image shows a full page of white paper with horizontal dashed lines, typical of primary-ruled notebook paper. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Warranty

General conditions

The machine is manufactured with due care and tested in good faith. It is intended for use in normal climatic conditions, in an environment with normal fire safety, without liquids and gases aggressive to the housing material. In case of a warranty event, contact a certified service center.

Warranty conditions.

Warranty period: 24 months from the date of sale.

The warranty applies only to defects in materials and factory defects, but not to damage emerged during transportation, worn parts or damage of fragile parts or hoses.

In the case of malicious and misconduct, use of force and encroachment not done by our repairers, the warranty is void.

Your legal rights are not limited to this warranty.

The warranty period is not extended after the warranty service has been provided. This also applies to replaced and repaired parts.

After the warranty period, repairs are paid.

Shipping costs are at the customer's expense.

FACTORY NUMBER: _____