



MIXXMANN



Operation manual plastering machine **MIXXMANN S8**

CERTIFICATE



No. 0D221123.BVCW76

Certificate's Holder: Individual Entrepreneur Bereziuk Valerii
59, B. Khmelnytskogo Blvd, Rivne, Ukraine, 33027

Certification
ECM Mark



Product: Plastering machines
Brand: MIXXMANN
Model(s): S3, S3+, S5, S6, S7, S8
Verification to: Standard:
EN ISO 12100:2010, EN 60204-1:2018,
EN 61000-6-1:2007, EN 61000-6-3:2007/AC:2012
related to CE Directive(s):
2006/42/EC (Machinery)
2014/35/EU (Low Voltage)
2014/30/EU (Electromagnetic Compatibility)

This document has been issued in accordance with the European Commission's note of 14 September 2022 ref. Ares (2022) 6342894 concerning voluntary certifications with a non-notified procedure.

The manufacturer has voluntarily decided to submit its documents concerning the above-mentioned product for verification. Ente Certificazione Macchine confirms that the documentation made available and immediately returned to it, as containing sensitive data, meets the essential requirements of the above-mentioned directives. The verification activity carried out exclusively concerned the technical documentation and no verification was carried out on the product. This document cannot replace the EC Declaration of Conformity. The above conformity mark can be affixed to the technical documentation in accordance with the ECM regulation on its issue and use, published on the website www.entecerma.it

Issuance date: 23 November 2022

Expiry date: 22 November 2027

For online check:



Approver
Ente Certificazione Macchine
Legal Representative
Luca Bedonni



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Plastering machines We hereby declare
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MIXXMANN S8

The series production meets the essential requirements of the European Directives and the harmonized standards listed below.

EU Directives: 2006/42/EC , 2014/30/EU, 2014/35/EU

Harmonized standards: EN 60204-1:2018, EN ISO 12100:2010, EN 61000-6-1:2007,
EN 61000-6-3:2007/AC:2012

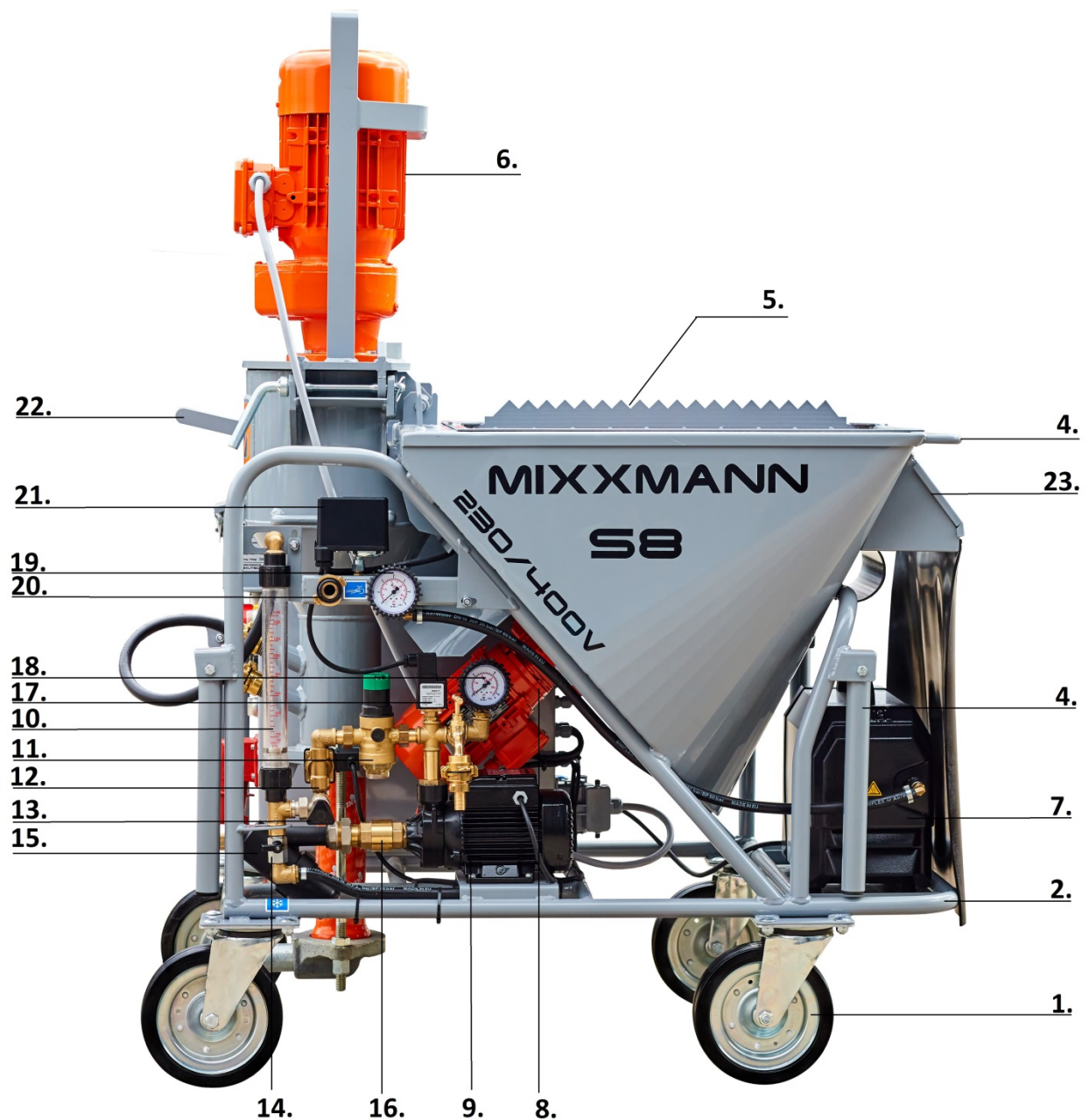
1. MAIN TECHNICAL SPECIFICATION AND MACHINE DETAILS

Type, model of the machine	Plastering machine MIXXMANN S8
Machine serial number	
Year of manufacture	
Assignment of the machine	Plastering machine MIXXMANN S8 is aimed at mechanical mixing, running and laying of commercial dry plaster, lime, cement mixtures.

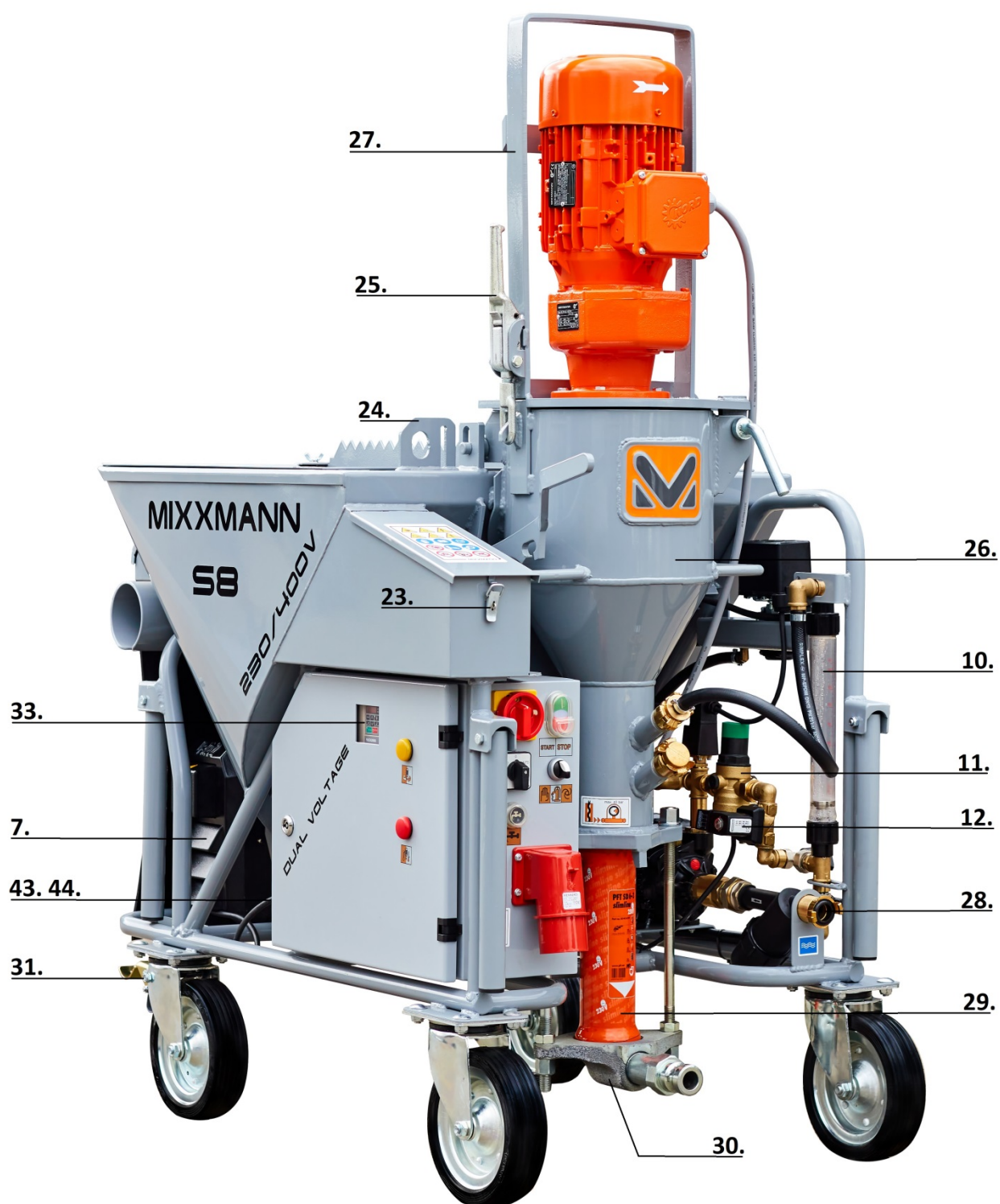
Dimensions:

	Width	730 mm
	Height	1550mm
	Length	1100 mm
	Dry mix filling depth	930 mm
	Loading hopper volume	140 L
Weight:	Gross weight	255kg
Capacity	Pump motor	5.5 kW
	Star wheel motor	0.55 kW
	Water pump	0.55 kW
	Compressor	0.52kW/ 180 l/min (depending on the component parts)
Rotation speed:	Pump motor	around 120-400 rpm
	Star wheel motor	around 28 rpm
Capacity:	Depending on the mortar composition 8-40 l/min and type of screw pump	
Electricity consumption:	Screw pump motor	19,2/11,1A at 230/400V
	Star wheel motor	2,4/1,4A at 230/400V
Electric protection:	Protective circuit breaker	3 x 25A
Nominal voltage:		230/400V
Voltage control:		42V
Delivery distance:	max at Ø hose 25mm	25m
	max at Ø hose 35mm	40m
Maximum pressure of solution injection:	Depending on the solution composition and type of screw pump	30 bar
Noise level:		85±1 dB.

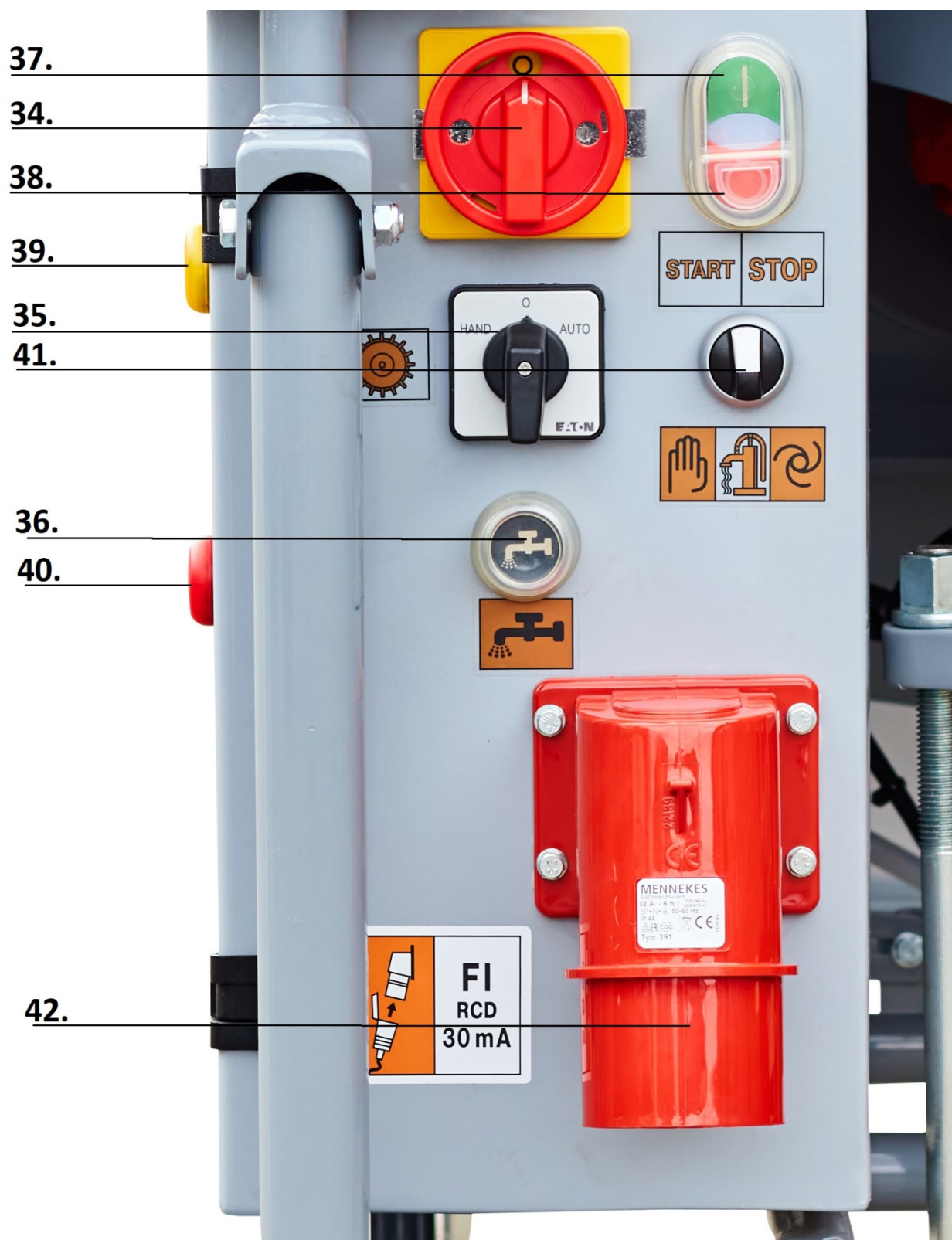
2. PLASTERING MACHINE **MIXXMANN S8** DESCRIPTION



MIXXMANN S8



MIXXMANN S8

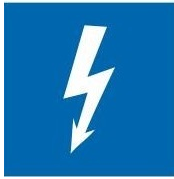


MIXXMANN S8

Plastering machine MIXXMANN S8
consists of:

1. Wheel chassis (with mechanical brake)
2. Frame that is mounting for the machine implement
3. Hopper for dry mix charging
4. Transporting handles
5. Protective grille
6. Screw mortar pump motor
7. Air compressor
8. Star wheel motor
9. Water pump
10. Water flow meter
11. Water pressure reducer (with adjustment)
12. Water solenoid valve 42V
13. Water regulation valve
14. Water discharge tap
15. Water filter
16. Return valve
17. Water pressure switch
18. Water pressure gauge
19. Air pressure gauge
20. Outlet for air hose
21. Pressure switch (air) 2 pcs.
22. Locking lever
23. Instrument box
24. Transporting eye
25. Snap lock with safety devices
26. Mixing tube
27. Tilt flange
28. Water manifold
29. Screw mortar pump
30. Pressure flange D-pump
31. Wheel castor
32. Electric control box
33. Sight glass
34. Main reversing switch
35. Mode select switch for the star wheel
36. Water forced feed button to the mixing tube
37. START button
38. STOP button
39. Right phasing control lamp
40. Machine emergency mode control lamp
41. Water pump mode selector switch
42. Power input connector 5x32A.
43. CEE socket 10x16A for the screw pump drive
44. CEE socket 2x16A for compressor

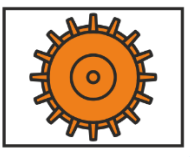
MIXXMANN S8 pictogram designation



Main switch



Attention!
Moving parts



Star wheel mode select switch



Emergency mode control lamp



Water pump mode select switch



Right phasing control lamp



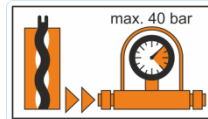
Compressor



Attention!
Moving parts



Automatic mode



Maximum pressure 40bar



Manual mode



Leakage current protection
30A, 3 x ~400V, 32A



START button



Danger of freezing,
drain the water



STOP button



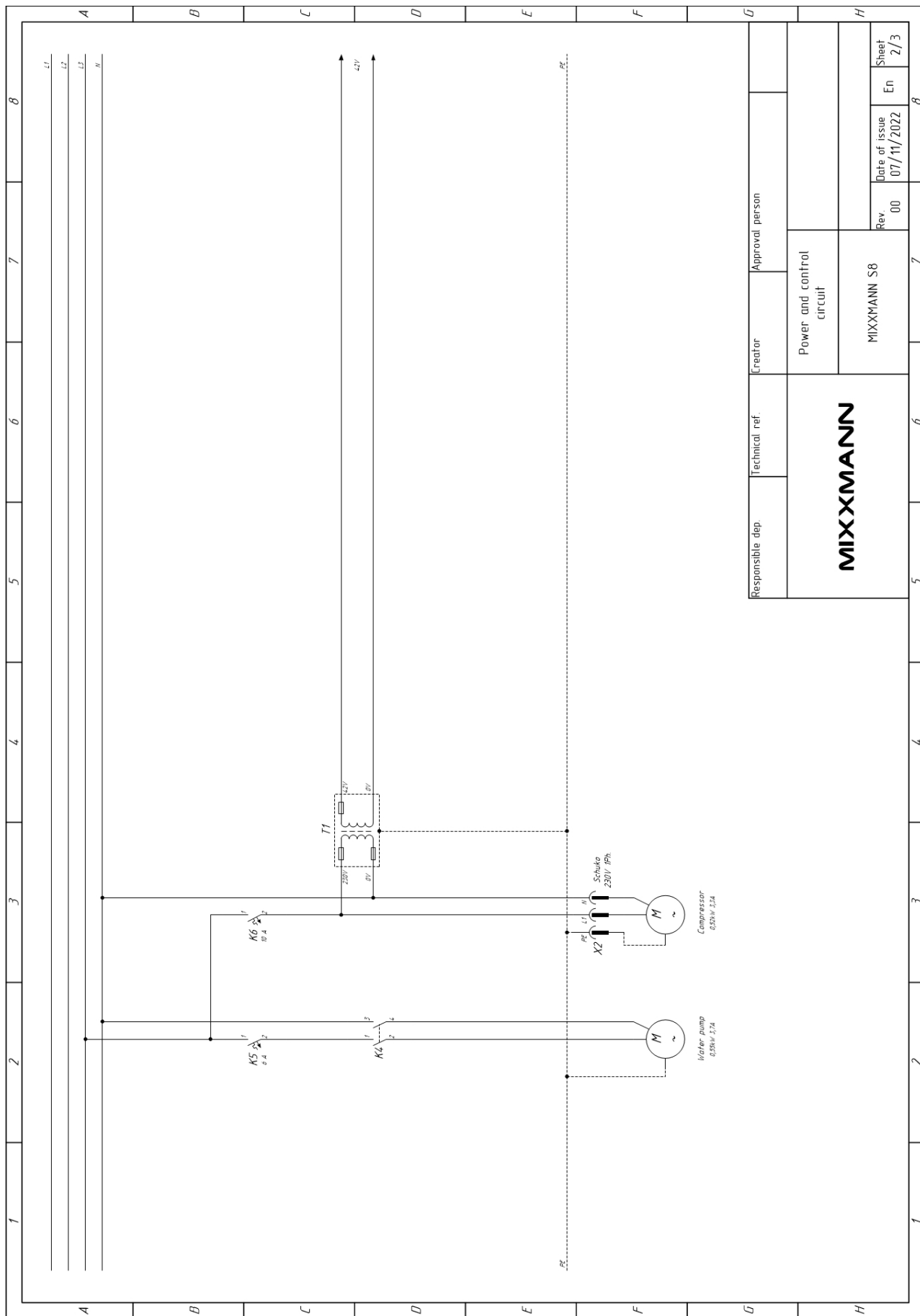
Air connection



Water forced feed button



Water connection



4. SCOPE OF DELIVERY OF PLASTERING MACHINE

Name	Amount
Plastering machine MIXXMANN SB	1 pcs.
Mortar hose DN25 -10m. - PN40	1 pcs.
Air hose 11m.	1 pcs.
Mortar gunNW25/40	1 pcs.
Compressor, 200 l/min230 V, 50 Hz	1 pcs.
Water pump PKm65 230V, 50Hz	1 pcs.
Set for mixing chamber cleaning	1 pcs.
Sponge balls	2 pcs.
Key for screw-and-barrel maintenance	1 pcs.
Power supply adapter 230V	1 pcs.
Draw bar for solution gun cleaning	1 pcs.
Set of additional laying for hose connection	1 pcs.
Geka connection 3/4	2 pcs.
Operation manual	1 pcs.

5. GENERAL INFORMATION

Dear user of **MIXXMANN** products, you have made a good choice.

The **MIXXMANN SB** plastering machine is simple in design and easy to operate. Nevertheless, there are certain rules and regulations to be observed when operating the plastering machine, which will help to maximise the service life of fast-wearing parts.

These operating instructions must be kept at the place of use of the machine and must be available at all times. Before operating the machine, read the operating instructions as we cannot accept any liability for accidents and damage caused by improper actions of the operating personnel.

Caution sources of danger!

Never thrust hands into moving machine parts!

Always turn off the main switch before repairing or adjusting the plastering machine!

Before switching the machine on, make sure that no one is exposed to any danger while it is in operation!

With proper use and timely maintenance, the **MIXXMANN SB** will be your reliable assistant for many years to come.

6. PRIMARY INSPECTION

The first task of the personnel in charge of commissioning a new **MIXXMANN SB** plastering machine at the construction site is to check its settings after the first (test) run, during which the factory settings can be changed (if necessary). The equipment may not work efficiently if it is not adjusted immediately after the test run. It is also of fundamental importance that the personnel check (after about two hours of machine operation) the factory settings such as:

1. Earthing of the machine body
2. Pressure exerted by the screw pump, back pressure
3. Safety valve on the air compressor
4. Distance between mortar gun air tube and nozzle (spray swath)
5. Water pressure switch
6. Air pressure switch
7. Motor circuit breaker
8. Water pressure reducer

ATTENTION!

Connections and hoses must at least comply with the maximum delivery pressure specified in the plastering machine's specifications. The bursting pressure must be at least 2.5 times higher than the working pressure.

7. PRODUCT SPECIFICATION

The operating principle of the **MIXXMANN SB** plastering machine is based on the principle of the continuous preparation (mixing), delivery to the place of work and application of mortars based on factory-made dry mixtures ("for machine use") on the surface to be treated. In the inlet hopper of the machine the mixture is always dry, its tempering with water is done in the mixing chamber. The mortar is transported through special heavy duty mortar hoses which are fitted with a screw pump.

The capacity of the machine can be varied by simply replacing the screw pumps within the range of 8 to 55 litres/min of ready mixed mortar.

For application of mortars on surfaces to be treated the mortar gun and air fed to it from the built-in air compressor are used.

The air compressor is an oil-free type. In addition to its basic task, it can be used for surface preparation (cleaning, priming) and application of ready-to-use compounds and paints by means of spraying devices.

The water supply source for mixing solutions is a water mains with at least 2.5 bar pressure (at the maximum water flow for the used mixture) or in case of its absence any tanks with water. In the latter case, an integrated water pump must be used to create the necessary pressure. Power supply is carried out from the electric board with the following requirements: leakage current protection 30mA, fuse link protection 25A, 3 phase ~400(380) V, 32A.

The machine can also operate on a single-phase 230V mains supply.

ATTENTION!

The machine must only be operated in a good working condition, according to the regulations and in compliance with the safety instructions in the operating instructions! Eliminate any faults immediately, which could impair the safety of the work.

ATTENTION!

Wear personal protective equipment before carrying out any work:

Protective work clothing, safety glasses, protective gloves, safety shoes, ear protection equipment.

8. CONNECTION AND OPERATION OF MACHINE

The plastering machine should be installed as close to the workplace as possible, taking into consideration the ease of delivery of the dry mix, water and power connections, weather conditions, etc.

- Before operating the machine, place it on level ground and secure it with the parking brake.
- Before commencing work, check that the mains voltage and frequency as well as the electrical



system components (connections, fuses, cables) correspond to the technical characteristics.

- Set the voltage selector switch Q5 (located inside the control box) to the mode ~230V or ~400V.

In order to change the voltage, proceed as follows

Set the main switch in position "0".

Set the voltage switch Q5 to 230 V/400V.

Set the main switch to position "1".

Press the START button.

- Then connect the power supply cable to the control cabinet.

Use an adapter cable for 230V mode.



MIXXMANN S8 may only be connected to a construction electrical distribution cabinet with a 32A load current and 30 mA that complies with the regulations of emergency circuit breaker. The power supply cable must be H07 RN-F 5x4.0 mm² (rubber-insulated). Only with a 5-pole connection, a Schuko socket outlet for 230V electrical appliances connection is used. (external water pump, portable lighting, plastering mixer, etc.).

For single-phase 230 V connection, the electrical cable must be at least 3 x 2.5 mm², for cable lengths of more than 20 m at least 3 x 4 mm².

Never use extension cords wound on reels (coils)!

- Connect the water hose to the station and the water mains. The water mains must ensure a minimum water flow of at least 20 l/min and a water pressure of at least 2.5 bar; if the pressure is insufficient, use the integrated water pump.

If the water pressure and flow rate are still insufficient, a clean water tank of adequate capacity (200-1000 litres) must be installed, which must be constantly filled by a water pump with automatic start-up. In this case, use a non-deformable hose with a diameter of at least 3/4". Supply water to it, push out the air from the hose and possible impurities. Turn off the water supply.

Connect the water supply hose to the water inlet connection (28.) Close the water drain valve on the water equipment. Supply water to the machine and close the water inlet tap after venting the water fitting.

ATTENTION!

Do not remove the protective grid while preparing the machine for operation or during operation!

Load the intake hopper (3.) with dry mix by tearing the bags against the special knife in the protective grille (5.)

Proceed as follows:

Set main switch (34.) to "I" position (on). If necessary, phase the power supply (see instructions).

Disconnect the water supply hose from the mixer tower and lower the bucket.

Press and hold the water injection button (36.).

Use the water valve (13.) to adjust the required amount of water for your use, with a slight upward margin (up to +10%).

Turn the tap clockwise if you want less water, anticlockwise if you need more water. Check visually by aligning the upper float plane on the flow meter (10.) (distance between the nearest marks per hour).

Connect the calibrated water supply hose to the top opening of the mixing tower tube.

Briefly press the water inlet button to fill the mixing zone with water.

There must be a sufficient amount of water in the mixing zone when the machine is started. Watch out for water loss through the bottom flange - the screw pump may be defective (worn out).

Before starting the machine, check the level of water loss by seeing the excess flowing out of the mixing tower's water nozzle.



ATTENTION!

Do not overdo the screw pump on water, this is not the operating mode. If water spontaneously flows out of the metered delivery hose without pressing the "water injection" button, it means that there is blockage of the hole in the diaphragm of the solenoid valve (12.) **(the valve "fails", repair or replacement is necessary)!**

Close the air tap on the mortar gun and switch on the compressor. After reaching the required pressure in the air fitting, it will switch off.

Press the **START** button (37.) (the indicator light comes on) and open the air valve on the mortar gun.

The machine has been started up, the mortar mixture of the required consistency comes out of the spray gun and you can start working.

Opening and closing the compressed air valve on the spray gun

helps to start and stop the machine.

To stop the station or in an emergency, press the red **STOP (38.)** button: all rotating parts of the station will then stop. Then disconnect the power supply cable from the control cabinet.

9. CORRECT PHASING

The correct phasing of the power supply of the machine is essential for the correct operation of all the electrical drives (correct direction of rotation) and does not require the services of an electrician. To do this, do the following:



Set the main reversing switch (34.) to position "I" ("On")
If the **yellow lamp (2)** "Change direction of rotation" is on, proceed as follows: Set the main reversing switch (34.) to zero position, move its locking bar, and switch it on again (in the opposite direction to the original direction). This changes the direction of rotation to the correct direction.
During operation, the feed drum must rotate in clockwise direction!

10. SCREW MORTAR PUMP



In the **MIXXMANN S8** plastering machine the manufacturer has installed a **Slimline SD6-3(29.)** screw pump as a universal screw pump for 230V and 400V operating modes, **the use of which is mandatory in the 230V operating mode!**



During plastering machine operation in 400V operating mode, it is possible to use a screw pump **Putz Power D6-3**

The screw pump, which consists of a rotor and a stator, is a wearing part that must be checked periodically.

The mortar mixture of different consistency at the station outlet is an indication of a worn screw pump (rotor-stator).

The screw pump must be able to withstand water pressure of approx. 30 bar and back pressure of approx. 14 bar before and after the first start-up with a mortar hose length of 10 m.

When assembling/disassembling the screw pump, make sure that

- the main switch (34.) is **switched off**.
- that the new stator and rotor have had time to "work in", (therefore, real pressure readings are only possible after the first start-up and operation of the machine).
- Pump parts that do not give the required discharge pressure or that cannot withstand the reverse pressure are worn and must be replaced with new parts. Worn parts can be used for less demanding jobs (e.g. cement/sand mixtures).

Lubricate the rotor well with silicone grease to fit the stator.

Never use oil or mineral grease, as these can destroy the stator!

NOTE:

1. The screw pump generates a working pressure of up to 30bar.
2. The pumping distance of the mortar mainly depends on its flow characteristics. Heavy and non-plastic types of mortar containing large and sharp particles have a poor pumping ability. Never use oil or mineral grease, as these can destroy the stator!
3. If the working pressure exceeds 30bar, it is recommended to use a **35mm** mortar hose in order to prolong the service life of both the mortar hose and the screw pump. The service life of the screw pump depends on the ductility property of the mortar, the maximum filler fraction and its shape, as well as the delivery distance (the farther and higher the wear, the worse) and cannot be given as an absolute value.

Also, the service lifetime of the mixing spiral in the plastering works is approximately equal to the life of two screw pumps and depends more on the accuracy of installation of the set "pump - mixing spiral" along the geometrical axis "electric motor - mixing tower - screw pump", which eliminates the contact of the spiral with the walls of the mixing tower and its uneven premature wear.

11. MORTAR CONSISTENCY

When applying large layers of material, it is possible to thicken the mortar a little to prevent its sliding. In case of thin layers, it is permissible to make the mortar slightly more watery than normal to facilitate levelling of the plaster (see recommendations of the dry mortar manufacturer).

At low temperatures some components of the dry building mixes for machine application continue to dissolve in the mortar hose during transport of the mortar, taking in free water. This must be taken into account when adjusting the initial consistency of the mortar (before connecting the mortar hose). In addition, in hot weather - especially when working under direct sunlight –it is necessary to take to account that the lifetime of the mortar can be reduced, both in the hoses and on the surfaces being treated due to intense heat. Avoid these situations as much as possible.

12. SPRAYING GUNS AND NOZZLES

Depending on the material used, the consistency of the mortar, the capacity of the screw pump, etc., nozzles Ø **10, 12, 14** are used. Nozzles with a larger diameter give a lower ejection rate and a lower rebound from the surface. Nozzles with a smaller diameter provide a better spraying of the material and therefore a more uniform application on the surface to be treated.

For application of commonly used mortar mixtures, nozzles with a diameter of 12 mm are used.

When applying mortar to ceilings and upper sections of walls, we recommend using an **extended mortar gun**.

Gap between air tube and mortar gun nozzle.

The gap between the end of the air tube and the nozzle must always correspond to the diameter of the nozzle opening. Adjustment is carried out. For example: Ø14mm of mortar nozzle = 14mm clearance.

13. WORK INTERRUPTION

Avoid interruptions of more than 20 minutes. Long interruptions may lead to clogging of the mortar hoses. In the event of work breaks, to prevent the mortar from sticking in the hoses and mixing tower, pay attention to the recommendations of the manufacturer of the material being mixed.

The machine must be cleaned before work is interrupted for an extended period of time.

Each time the machine is interrupted, the consistency of the mortar consistency will change slightly, but it will return to normal after a short time after the machine is put back into operation. Therefore, it is not necessary to adjust the water flow every time the consistency is changed - you must wait until the consistency of the mortar returns to normal.

Activities on completion of works, flushing of the machine:

ATTENTION!

When carrying out any cleaning or maintenance work on the mixing tube (26), observe the safety regulations, there is a danger from rotating parts!

Please note that before opening the mixing chamber, the main switch (34) must be turned to the "0" position and the power supply disconnected.

When the machine is running, it is necessary to first stop the machine by pressing the STOP button (38). Next, turn the main switch (34) to position "0", then disconnect the power supply cable from the connector (42). Then, open the snap lock (25) and tilt out the motor (6) and carry out the necessary work.

Before connecting the power supply cable and switching on the main rotary switch (34), make sure that the snap lock (25) is closed.

To clean the mixing pipe, lower the clearer shaft with the cleaner ("jack plane") and insert into the upper part (head) of the pump rotor.

Close the motor flange with the snap lock (25.).

Press the "START" button to clean the mixing tube (easy to check by the colour of the water coming out of it).

Press the red "STOP" button to stop the pump.

Remove the cleaning accessories and replace them with a clean mixing coil. The upper (wide) part of the mixing tower pipe must be dry.

Close the motor flange and snap lock (25.).

To clean the mortar hoses and mortar pressure gauge, connect them to the water tap by placing a sponge ball soaked in water in the hose on the side of the tap. This flushing method will extend the service life of the screw-and-barrel.

If the machine is not expected to be used for many days, so empty the mixer hopper. Remove the protective grille (5.), the cut-off panel and the feed drum. Empty the hopper of mixture material (remove the cover on the bottom of the hopper and place a dry bucket under the hopper hatch to remove any residual mixture material). It is also necessary to clean the hopper when switching from one type of dry mix to another (gypsum-based to cement-based bulking material, etc.).

Elimination of the plug in the mortar hose

Attention!

For safety reasons, people who have to clear the clogged mortar hoses must wear safety goggles and stand so that the escaping mortar does not get into them. Remove any other persons from the work area.

- switch off the motor of the feed drum (35.).
- ensure that the pressure in the hoses is reduced to 0 bar.
- Loosen the nuts on the flange to release any remaining pressure.
- Carefully disconnect and clean the connections of the spraying mortar hose.

You may have to suspend the hose vertically and pressurize the top of it with an air compressor and flush mortar out of the bottom of it with water pressure from a special, thinner hose, tapping the mortar hose gently with a rubber/wooden hammer from time to time.

Measures in case of power cut off

The mortar supply hoses must be flushed out immediately. Connect the cleaning adapter (supplied with the machine) first to the mortar supply hose and then to the water tap. Open the tap and first "squeeze out" the residual mortar and then clean the hose with sponge balls. If there is no water pressure, hang the hoses vertically and, starting from the lower end, beat the mortar out of them (**gently!!!**) with a rubber or wooden hammer.

ATTENTION!

Make sure that the hoses are depressurised before disconnecting the connectors!

If there is even the slightest doubt that there is residual pressure in the hoses, do not open the mortar mixture hoses at any time!

Loosen the pump fastening, remove the pump, remove the rotor from the stator and flush thoroughly. Clean the flanges or mixer. Using a spatula and water, clean the mixing zone and the mixing spiral. Assemble and equip the pump for operation.

Measures in case of a water supply interruption

Supply the machine with clean water from the storage tank by means of the integrated pump with filter inlet.

14. SAFETY REGULATIONS

In this section you will find important safety instructions presented in general terms. This section is therefore intended as a first and thorough instruction for new workers. It goes without saying that the individual rules will also be repeated elsewhere in the operating instructions as appropriate.

Note

Special safety regulations may be required for certain jobs. You will only find them when describing this type of work.

Fundamental rule

Operate the machine only in a technically perfect condition and for the specified purpose whilst being aware of safety and risks and following the operating instructions. Troubleshoot (delegate someone to eliminate the faults) especially in an emergency, which impair safety!

1. All safety instructions must be kept close to the machine and in a readable condition!

2. Check the machine at least once per shift for visible damages! In the event of detecting changes to the machine which are relevant to operational safety, take measures to eliminate them.
3. Parts and accessories must comply with the specifications of the manufacturer.
4. The operating, maintenance and inspection personnel as well as the installation personnel must have the appropriate qualifications for the work to be carried out. If they are not qualified, they must be appropriately trained and instructed.
5. Further, it must be ensured that the operating instructions of the machine are fully understood by the operating personnel. Trainees should only be in the immediate vicinity of the machine in the presence of an experienced user.
6. Connection and operation of electrical equipment must only be carried out by or in the presence of an expert in accordance with the regulations of the local electricity supply company.
7. The **START - STOP** process is controlled in accordance with the instructions.
8. If the machine is to be completely switched off for servicing or maintenance work, it must be isolated from the main switch to avoid the possibility of it being switched back on again unexpectedly. The distribution switchboard has to be kept under lock and key and the warning sign must be affixed.
9. Before washing the equipment with water jet, carefully cover all openings where water would be undesirable (electric motors and control unit, sensors). After washing is complete, remove the protective covers.
10. Use only original fuses with the prescribed current requirements!
- 11. The control unit must be closed when the machine is in operation!**
12. The machine must be disconnected from external power sources even if it is moved slightly.
13. The machine must be placed on a level surface and secured against accidental movement using the standard brake before it is operated.
14. The mortar hose must be protected from mechanical damage, without "fractures" and small bends.
15. Depressurize the mortar hose before disconnecting it!
16. Wear safety goggles and respirator when filling with dry mortar and cleaning the machine! Ensure that no unauthorized people are in the immediate vicinity!
17. The permissible sound pressure level of the operating machine is 85 dB or less, otherwise wear ear protection.
18. When applying the mortar, wear protective clothing, incl. safety goggles, shoes, gloves, and, if possible, protective cream and a respirator (see the recommendations of the manufacturer of the dry mortar).
19. The machine must be inspected once a week.

Make sure that:

- No safety devices were dismantled, disconnected or altered (pump feed hopper grid cover, etc.),
- Safety devices, removed due to maintenance work, were immediately put back in place after the work was completed.

Before each start-up, check that the operation is safe. If any defects are detected, even if they are hardly noticeable, they must be remedied immediately. Inform the person on duty if necessary. If there are any safety-relevant faults, stop operation.

Only use lines, feeding hoses, couplings, etc. of the machine manufacturer that are faultless and suitable for transport. Feeding lines are subject to wear and tear which occurs differently depending on the pressure of the medium, its composition, the material in the feeding line, etc.

The machine has been constructed in accordance with technical progress and generally accepted safety regulations. However, danger to the life of the operator or third parties or adverse effects on equipment and other tangible assets can arise during its use.

Intended use also includes complying with the operating instructions, observing the conditions for preventive inspection and maintenance and their frequency.

Compliance with the operating, maintenance and inspection instructions.

The maximum permissible total weight must not be exceeded.

The specified field of application describes and defines the purpose and use of the machine.

The compressor unit is used to produce compressed air for industrial purposes! It compresses (compresses) atmospheric air of normal purity to an overpressure and moves a defined volumetric flow at this pressure. Any use for other applications, in various breathing media, or the use of pressure for purposes other than industrial purposes, as well as the exceeding or undersizing of factory-set operating parameters, such as pressure range, speed, temperature, etc., is considered as improper use for the intended purpose.

Inappropriate use

Hose extension

Any other use or the use that goes beyond the intended use of the appliance, e.g. transportation of goods, is considered to be improper use. The manufacturer **MIXXMANN** will not be liable for damage resulting from such an action. The user alone is responsible for the risk. Do not extend hoses beyond the length given in the technical data.

We expressly point out that **MIXXMANN** accepts no liability for damage due to improper or negligent maintenance or repair or due to inappropriate use. This also applies to modifications, additional installations and equipment on the machine, which negatively influence machine operation.

Do not commence any modifications, additional installations or reconfiguration on the machine which have a negative effect on safety, without the approval of the manufacturer. This also applies to the installation and adjustment of safety devices and valves as well as welding on load-bearing parts.

This includes in particular:

- Changing the factory-set adjustable and permissible pressure, capacity and other settings.
- Repair, adjustment or replacement of safety devices may only be carried out by qualified personnel.

All safety devices must be in good working order to ensure safety.

Sources of danger

Never reach into moving parts of the machine under any circumstances

- whether the machine is running or switched off.

Always turn off the main switch (**34.**) first. Follow the instructions on the warning plates.

In case of malfunctions stop and secure the machine immediately! You have to eliminate the malfunction immediately!

Before switching the machine on, make sure that no one is endangered by the start-up of the machine!

Safety devices

Safety instructions for the pressure tank (if provided by the machine design).

Never dismantle safety devices or disconnect them as a result of modifications to the machine. Repair, adjustment or replacement of safety devices may only be carried out by competent specialists.

All safety and accident prevention devices (warning and instruction plates, protective grids, protective covers, etc.) must be available. They can be removed, replaced or rendered unusable. If safety devices have to be removed for adjustment, repair and maintenance work, they must be reinstalled and their function checked immediately after completion of the maintenance and repair work.

Recruitment of the personnel and is qualification

When leaving the workplace, secure the machine thoroughly against accidental rolling away or unauthorized use!

Only persons (operator, machine operator) are allowed to service, maintain or repair the machine themselves, **namely:**

- when they have reached the age limit established by the law;
- when they are fit in terms of health (rested, not under the influence of alcohol, drugs or medicines),
- those who have been successfully instructed in the operation and maintenance of the machine,
- those who are expected to reliably carry out their assigned tasks.

The machine may only be serviced, maintained and repaired by persons who have been trained and authorized to do so.

15. TRANSPORTATION

Disconnect the power cable and the hoses for water, air and mortar mix before moving the machine to another workplace. Make sure that no dry mixing material remains in the intake hopper.

Whenever the machine is moved using transport aids, use the transport bolts or lugs.

When loading or unloading the machine, do not hit any easily deformed protruding parts.

When transporting the machine, secure it with synthetic belts or straps so that it cannot move freely during transportation.

Cover machine parts, which could be damaged by rain, wind, cold and other circumstances during transport.

Unloading by crane: metal rods with a diameter of 45 mm are passed under the machine's stand legs. The metal rods must be long enough to prevent the rope from slipping / length 1.20 m. /.

The wire rope must be guided in this way and retracted with wooden pads to prevent damage to the machine.

Check that all components are properly secured before lifting the machine onto the floor.

Transport: When transporting the machine, make sure that it is not subjected to shocks or vibrations. The machine is placed on a wooden transport frame for transport. If the ground is level, the machine can be lifted onto a platform to be installed on rollers.

Attention: during transportation the machine can fall over back.

Cleaning: Before cleaning the machine, clean the smooth surfaces very thoroughly with an anti-corrosion agent.

After operation: flush the machine. Shut off the water supply. Dry the machine and hoses with an air compressor.

Then disconnect the power supply cable, followed by the other electrical connections. Coil up the hoses and cables.

The **MIXXMANN SB** consists of three parts (mixing tower, chassis with material reservoir and air compressor) which can be transported separately. The mixing tower can be disassembled into three units: a screw pump with flanges, the drive unit and the mixing tube.

ATTENTION!

Always make sure the hose connections are depressurised before disconnecting them!

16. MACHINE STORAGE

When preparing the machine for storage, its preservation should be carried out.

ATTENTION!

At subzero temperatures, water expanding as a result of freezing can damage the details of the plastering machine!

Therefore, it is necessary to completely drain the water from the water fitting and proceed as follows:

Disconnect the external water supply hose.

Open the water outlet valve of the water flow meter (14).

Open and drain the water from the water filter (15).

Open and drain the water from the water pressure reducer (11).

The machine should be stored in a dry room at a temperature from - 30 ° C to +45 ° C.

17. TECHNICAL MAINTENANCE

CHECK EVERY DAY:

- 1) The water purification filter on the water inlet of the water fitting. **If it is damaged or deformed, the filter must be replaced!**

CHECK EVERY WEEK:

- 1) Compressor filters, blow out with compressed air if the compressor filter is badly contaminated.

Note: The filters are places with rough side inwards!

The air compressor does not need a lot of maintenance and requires no extra maintenance.

2) Fine filter on water pressure reducer, replace if necessary (use special water pressure reducer wrench).

If it is not possible to clean the filter, or if the housing is deformed, it must be replaced!

3) Condition of the mixing coil and the holder of the mixing coil. **They must be replaced if necessary!**

Additional maintenance:

The manufacturer recommends using original mineral oil for the screw pump motor (0,82l) and the star wheel motor (0,6l) which require replacement after 3000 hours of operation, but not less than every three years.

We recommend checking the oil level in the gearboxes and the condition of the gland seals every three months.

18. GENERAL TROUBLESHOOTING AND SOLUTIONS

The machine is designed to operate reliably and for a long time if used correctly. However, malfunctions may occur during operation of the machine, the possible causes and elimination methods for which are indicated in the list below.

These instructions do not cover all possible parts and equipment variations and do not describe all situations that may occur during operation and maintenance.

Servicing and troubleshooting of the machine must be carried out by qualified personnel using suitable equipment and accessories.

Eliminating faults in a timely manner increases the service life of the machine, improves the quality and output of the processed material!

Impairment	Cause	Help
Machine is not starting!	Water	
	Inlet pressure water manometer shows less than 2.2 bar	Check the water supply and hoses (bends and fractures) Clean input filter to catch dirt. Connect an external pressure booster pump
Machine is not starting!	Electricity	
	-Is electricity in order?	3 phase ~400V, «zero», earthing!
	-The circuit breaker went off Emergency Circuit Breaker (FI)	Check earthing
	-Is the main circuit breaker switched on?	
	-Is the phasing completed?	Do phasing
	-Are all electrical connections made?	Check connections
Red light is on «emergency»	-Is the automatics switched on?	White (green) light is on?
	-Has the water pressure switch been reset?	Restore factory setting
	-Is the remote control jumper plugged in?	Remove and reconnect the connector
	- Does one of the circuit breakers go on?	Determine and rectify cause of tripping

Main engine zooms, but is not rotating, red button is on «emergency»	<p>One of the electric motor protection circuit breakers went off</p> <p>-Is the screw pump jammed?</p>	<p>Reset the dispenser, switch it on again</p> <p>Remove, disassemble and clean the screw pump.</p> <p>remove the cause of seizure</p>
Machine is not starting!	<p>Air</p> <p>-Inadequate air pressure drop due to clogged airline or air pipe or air tube on the mortar gun</p> <p>-Is the air pressure switch disconnected?</p>	<p>Clean a clogged air pipe or air tube!</p> <p>Remove Repair bends in the air hose</p> <p>Check or restore factory settings</p>
Machine is not starting! (Flow meter does not give indications)	<p>Mixture</p> <p>-Too much compacted mix in the receiving hopper tower or mixing area</p> <p>-Clogging in the mixing tower nozzle in the tower water inlet</p>	<p>Free the chute from dry mixture, check the water supply and restart the machine</p> <p>Clean the nozzle from the compressed mortar</p>
Water is not entering the mixing tower! The pressure on the water manometer is normal, (Water flow meter does not provide indications)	<p>- Solenoid valve is not working (the hole in the membrane is clogged)</p> <p>-Defective coil or cable of the solenoid valve</p> <p>-The valve is mechanically damaged</p> <p>- The filter in the water pressure reducer is clogged</p> <p>-The water flow regulator is closed</p> <p>- The adjustment of the pressure reducer is busted</p> <p>-Electric drive is defective</p>	<p>Consult the specialist</p> <p>The same</p> <p>The same</p> <p>Clean</p> <p>Open the regulator and adjust the water flow rate</p> <p>Renew the factory settings</p>
Electric motor of the mixing tower is not starting! The red lamp is on «failure»	<p>-Faulty power cable</p> <p>-Defect male connector or integrated socket</p> <p>-Broken or activated protective circuit breaker</p>	<p>Consult the specialist</p> <p>When you are sure that the motor is rotated manually, switch on the automatic breaker</p>
The machine is stopped, after working for a while	<p>- The dirt-excluding sieve on the water pump inlet is clogged</p> <p>-The manometric pressure switch setting is broken</p> <p>- The water hose connection on the water intake is too short or the water flow is insufficient</p> <p>-The water supply line is too long or the water flow is insufficient</p>	<p>Clean or change the sieve</p> <p>Check the inlet water manometric pressure, adjust</p> <p>Collect water to the tanks and work, using the external water pump</p> <p>If possible, connect additional pump to increase the pressure in the line</p>

The machine is not switched off!	<ul style="list-style-type: none"> -The air pressure switch setting is off -Air line not connected to compressor or spray gun -The air tap on the mortar gun is defective -The air line is not tight (hoses, seals, etc.) - The compressor is running at low output 	<ul style="list-style-type: none"> Renew the factory settings Connect Repair the tap Repair the tightness Consult the specialist
The mortar flow has changing consistency (Air bubbles, uneven distribution of the fractional composition over the mass of the mortar)	<ul style="list-style-type: none"> -Bad mixing in the mixing tower -The mixing spiral is worn out or designed for other types of work (dry mixes) -The mortar hose is leaking -Inlet hopper in the mixing tower has become wet -Lumpy mixture and narrowed passage in the mixing tower - too little water Water pressure switch re-installed or defective -Gearbox setting altered or defective -Rotor worn or defective -Stator is worn out -Defect inner wall of the mortar hose - Rotor of the screw pump moved to the lower flange 	<ul style="list-style-type: none"> Add more water Replace with new or suitable for the type of work (dry mixes used) Check all connections Clean and dry the mixing tower Increase the water consumption by approx. 10 % for about ½ minute if the water quantity is too low and then reduce gradually to the required mortar consistency. Check factory settings and correct if necessary. Replace rotor Replace stator Replace the hose Check the installation of the mixing spiral and adapter with the guide cone
During work the level of water in the mixing tower is increasing	<ul style="list-style-type: none"> -The boost pressure in the mortar hose is higher than the pressure developed by the screw pump - The rotor or stator is worn out, developing from the screw pump - Rotor or stator is worn out -Hose clogging due to too solid mortar (high back pressure due to small amount of water) 	<ul style="list-style-type: none"> Retighten or replace the stator Replace rotor, if necessary. Eliminate blockage in hose, adjust consistency of mortar to nominal
The red light is on «failure», machines stops	<p>Overloading of power electric motors:</p> <ul style="list-style-type: none"> -Screw pump electric motor -Star wheel electric motor -Electric motor of air compressor presser 	<p>The main rule is to find out the reason for the activation of the protection in the first place! As a rule, these are:</p> <ul style="list-style-type: none"> Insufficient water for mortar mixing, use of mixtures not intended for machine use, insufficient cooling of the motor, etc. Foreign bodies in the hopper Not complying with recommendations for cleaning the air filters and the outside of the air filter

19. WARRANTY CERTIFICATE.

On delivery, the dealer is obliged to provide the customer with the supplied plastering station: the warranty card, the operating and maintenance manual containing the necessary instructions for its operation, so that he can start using it only after the operator has thoroughly familiarised himself with it.

	RECORDED BY THE SELLER
Machine model	MIXXMANN S8
Year of manufacture	
Serial number	
Buyer	
Seller	
Date of sale	

The manufacturer guarantees the proper operation of the machine if the user follows the transport, storage and operating conditions as specified in the operating instructions.

The manufacturer's warranty (guarantee) commences when the plastering machine is handed over to the dealer/buyer. The date stamped on the warranty card is deemed to be the date of handover of the plastering station.

The warranty is understood as the repair and/or replacement of the parts in a manufacturing defect is detected or if it is proved that the damage or defects were caused by faulty materials or assembly errors during the manufacturing process.

Replacement of the entire plastering station is excluded.

The manufacturer, seller shall not be held liable for any damage to third parties resulting from direct or indirect use of the machine;
nor is it liable for any loss of profits due to any downtime of the machine, whatever the cause.
The warranty period covering manufacturing defects of any components is **12** months from the date of shipment or delivery to the customer.
Warranty repairs are only affected within this period.

The transport of the product to the place of repair is done by the customer or by the transport company at the customer's expense; in the event of the company's specialists travelling to the place of repair or replacement of parts directly at the customer's premises, all transport costs shall be charged exclusively to the customer on the basis of the service company's rates.

The warranty is annulled if

- 1. The user has carried out unauthorised repairs, modifications, conversions or disassembly of the products, has installed accessories or appliances which have not been supplied by the manufacturer and without his/her consent, or has replaced parts without the approval of the manufacturer, or has used non-original spare parts.**
- 2. The products supplied have not been operated or installed in accordance with the manufacturer's instructions due to the user's error or negligence.**
- 3. Defects caused by fasteners which have been visibly loosened during operation without being retightened in time.**
- 4. Repairs carried out during the warranty period do not interrupt the warranty period.**
- 5. The electrical connection has not been made in accordance with the manufacturer's instructions. For example, if in the 230V operating mode the electrical connection has been made without a voltage regulator, as a result of which the plastering station's electrical components have been damaged.**
- 6. If the electric motors or frequency converter malfunctions as a result of mechanical damage, direct exposure to water, phase imbalance of the supply voltage, insufficient voltage or frequency, insufficient cooling due to external or internal contamination.**

The warranty does not cover wearing parts, parts and components:

- mortar or air hoses, mortar gun and their parts;
- the paint coating of the plastering station;
- Mixing spiral, cleaner with shaft;
- wheels;
- rubber products and sealing elements;
- taps, overflow devices of water fittings in case of improper operation;
- gauges (sensors, pressure gauge, etc.) in case of improper operation;
- insulation of electrical equipment;
- and others in case of improper operation

20. INFORMATION ABOUT WARRANTY MAINTENANCE.

<i>Date</i>	<i>Description of the works</i>	<i>List of replaced spare parts and details</i>	<i>Signature</i>