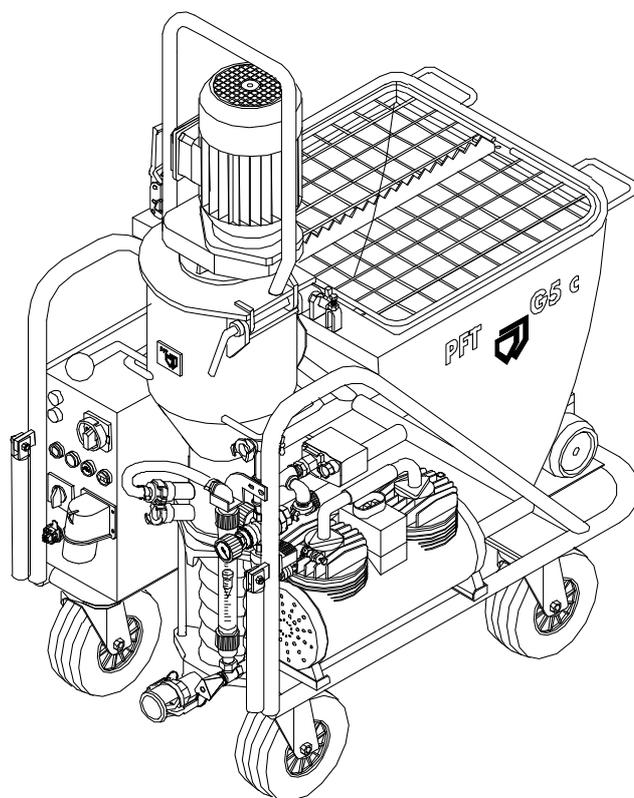


Manual for
BAL.NR.00 03 90 15

MIXING PUMP PFT G 5 c



WE KEEP THINGS MOVING



Dear Customer,

Congratulations! You have just made a quality purchase.

The PFT G 5 c is a state-of-the-art machine designed to withstand the tough conditions of construction sites.

Always keep this manual with the machine. The manual provides you with vital information about the machine's functions. Read the manual thoroughly before you operate the machine. PFT will not be liable for accidents and malfunctions that are caused by incorrect operation. Proper operation and maintenance will make the PFT G 5 c a dependable construction aid.

The PFT G 5 c abides by the stringent safety standards of the German Builder's Guild and has been granted the Guild's certification of approval.

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First inspection after delivery

It is mandatory that all delivery technicians check the machine settings at the end of the first spraying operation. Factory settings can change during the initial phase of operation. If necessary, resetting should take place right after initial run, without which faults are likely to set in.

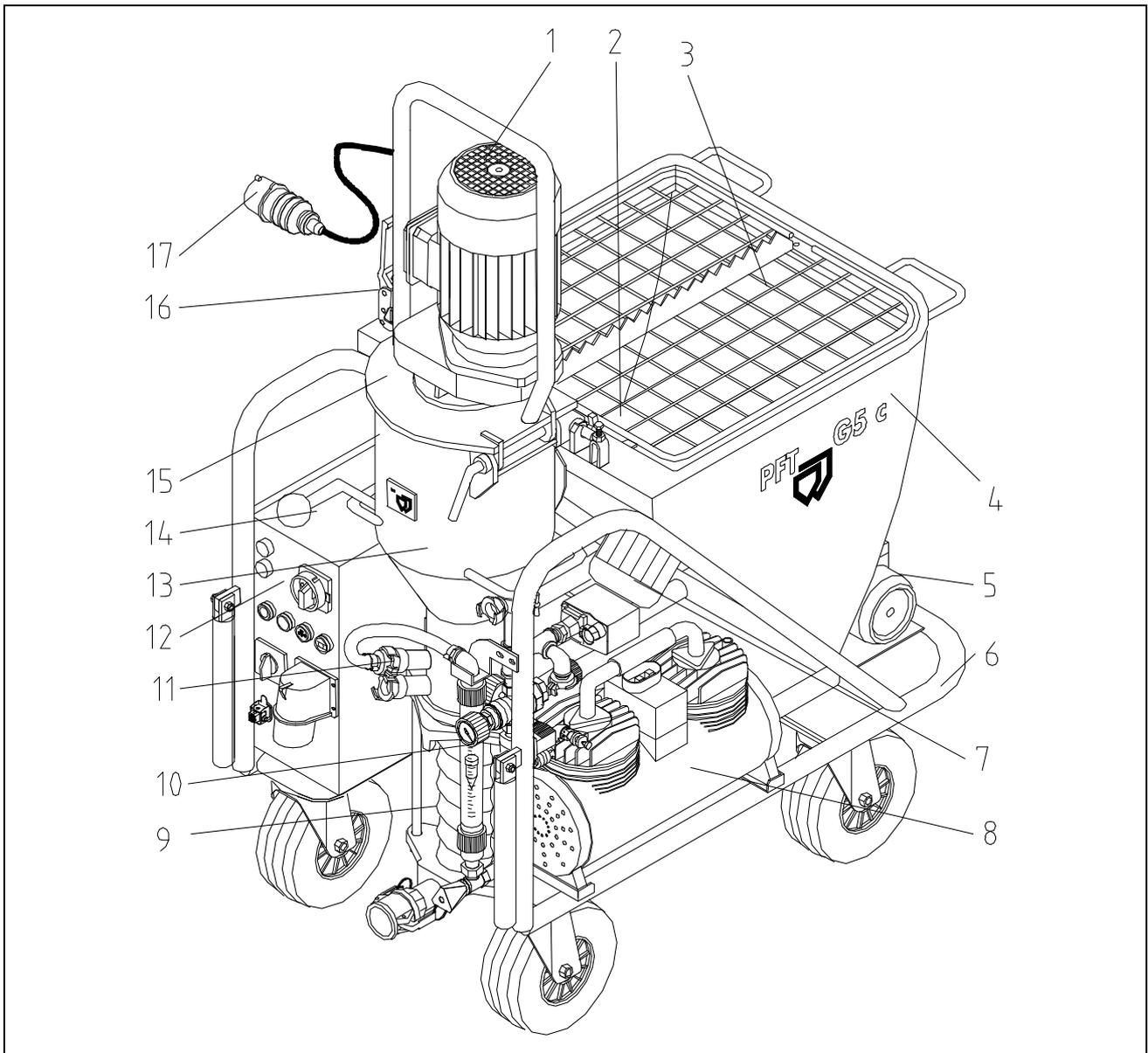
After handing over the machine and approx. two hours after the initial operation, delivery technicians must inspect the following items and settings:

1. Water safety switch
2. Pump pressure, back pressure
3. Pressure relief valve on compressor
4. Air nozzle tube (Spraying pattern)
5. Air safety switch
6. Compressor pressure switch
7. Remote control switch
8. Pressure reducing valve
9. Motor safety switch

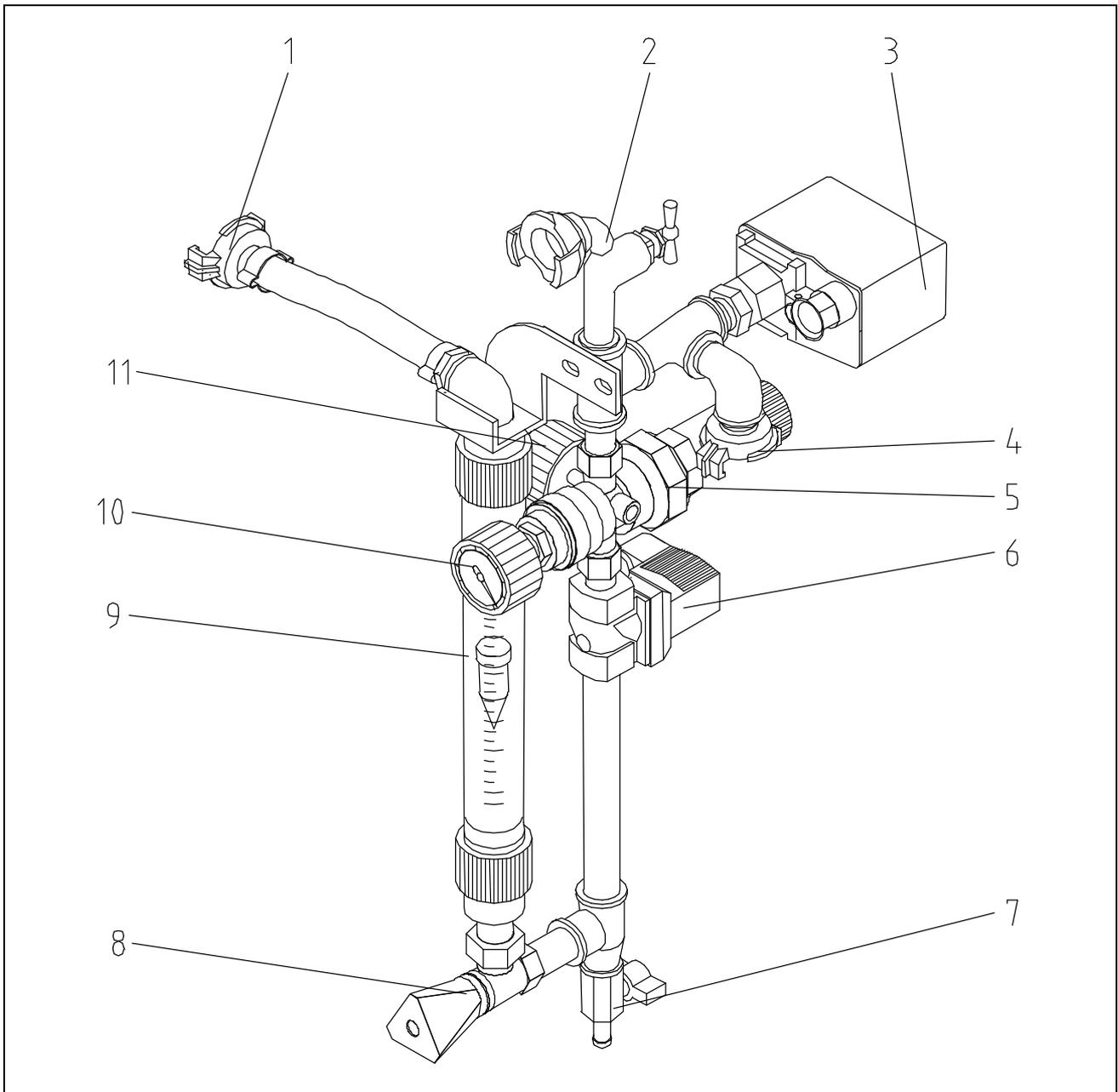
**NOTE!**

**WARRANTY CARD MUST BE FILLED AND RETURNED TO PFT.
NO WARRANTY WITHOUT WARRANTY CARD!**

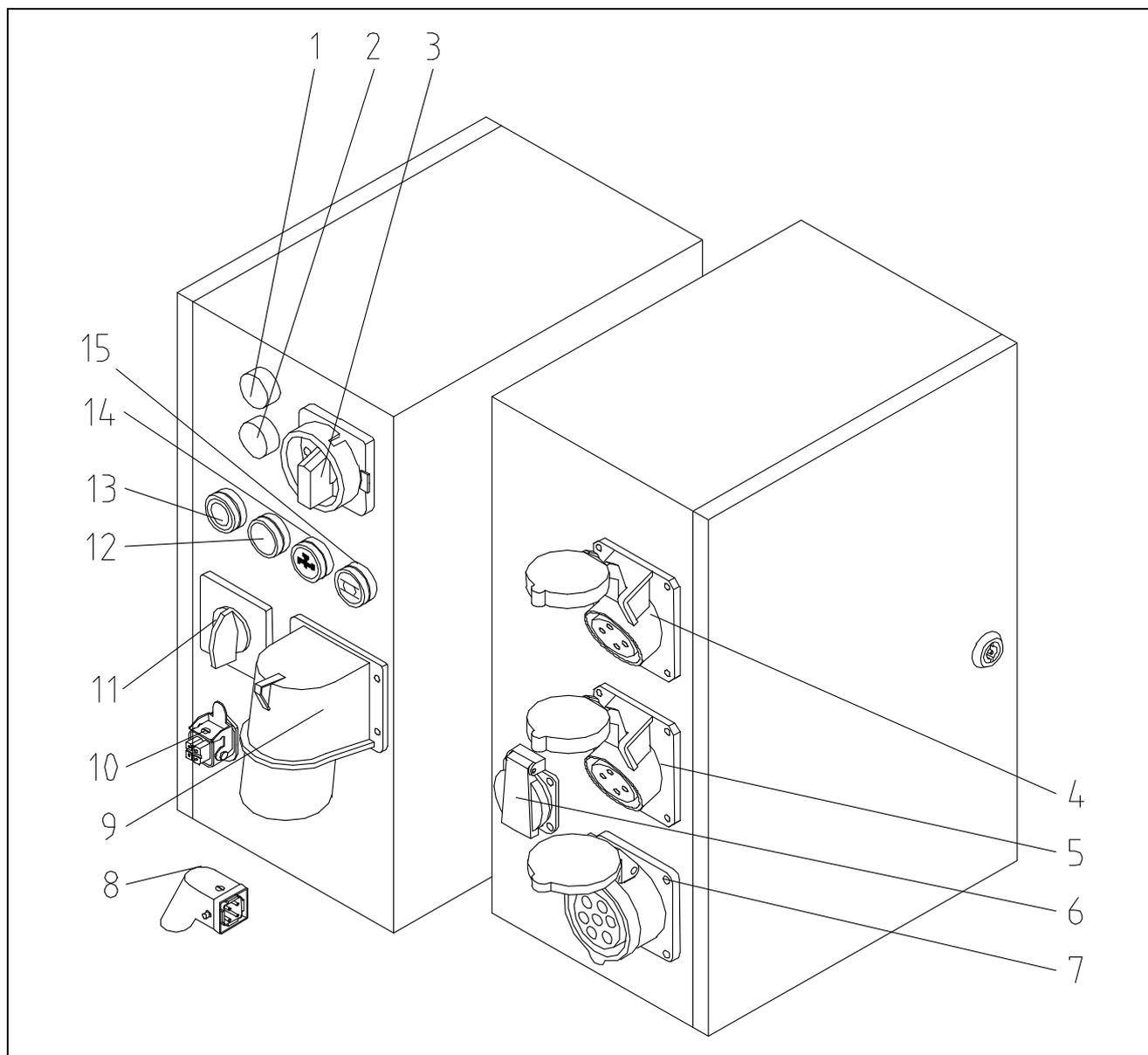
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- | | |
|---------------------------|-----------------------|
| 1. Mixing motor | 10. Water connection |
| 2. Star wheel | 11. Water inlet |
| 3. Protection grille | 12. Control box |
| 4. Hopper | 13. Mixing tube |
| 5. Water pump | 14. Mixing tube lock |
| 6. Chassis | 15. Tilted flange |
| 7. Star wheel motor | 16. Fast lock |
| 8. Compressor | 17. Motor power cable |
| 9. Rotor / Stator Twister | |



- | | |
|--|-------------------------------|
| 1. Water to mixing tube | 7. Water outlet |
| 2. Water outlet valve | 8. Needle valve |
| 3. Water pressure safety switch | 9. Water flow meter |
| 4. Water connection from mains or tank | 10. Pre-water gauge pressure |
| 5. Pressure reducing valve | 11. Post-water gauge pressure |
| 6. Solenoid valve | |



1. Display lamp : fault in system

2. Display lamp : direction of rotation

3. Main reversing switch

4. Socket : compressor 16 A

5. Socket : water pump 16 A

6. Schuko – socket 230 V, 16 A

7. Socket : mixing pump

8. Blind plug 4-pin

9. Sockets for main 32 A

10. Remote control socket 42 V

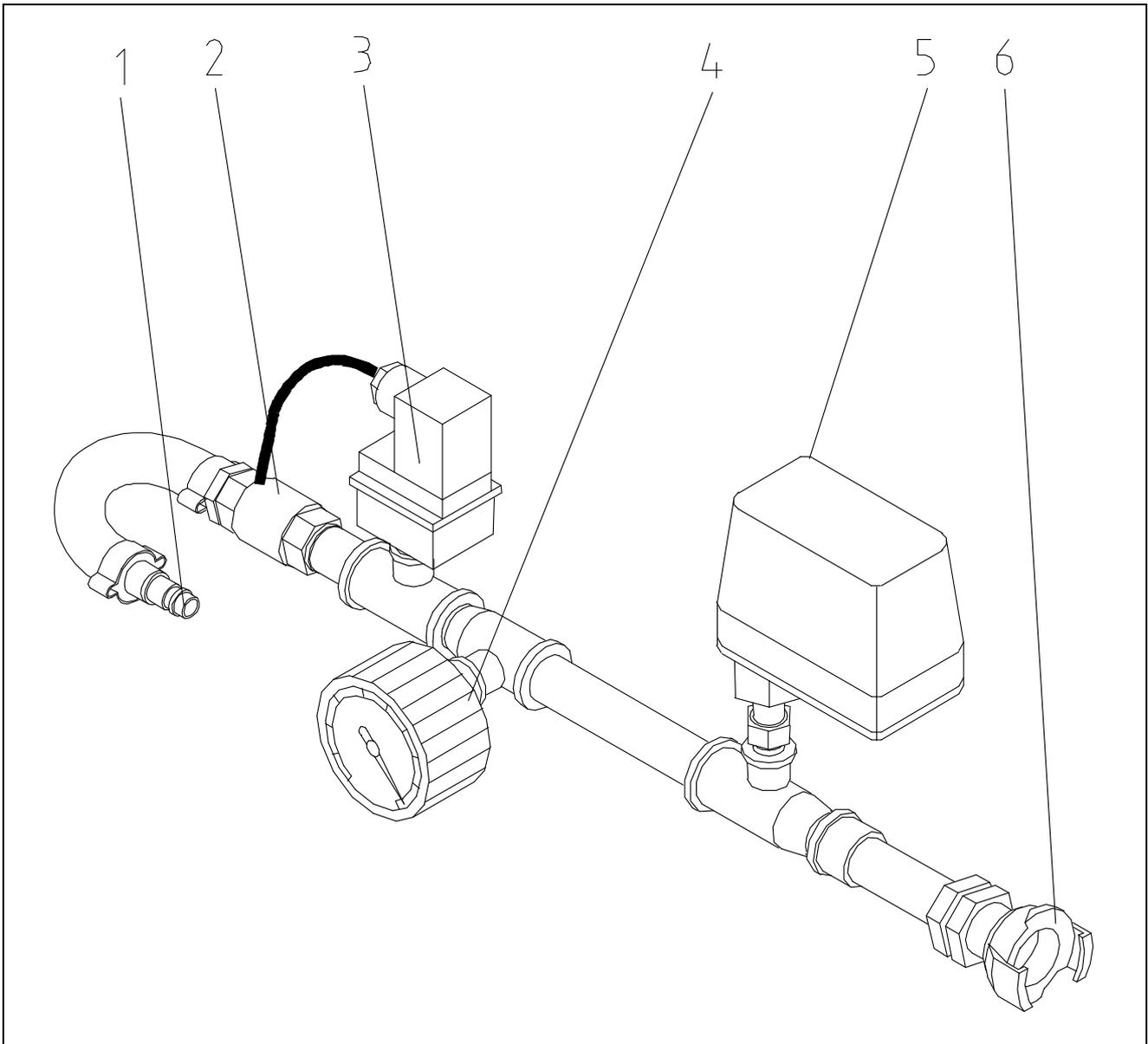
11. Hand – 0 – automatic star wheel

12. Display lamp : on

13. Display lamp : off

14. Water flow button

15. Blue switch : pump motor reverse



1. Air from compressor

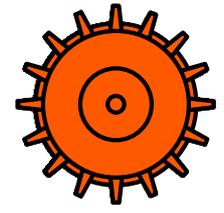
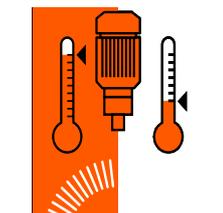
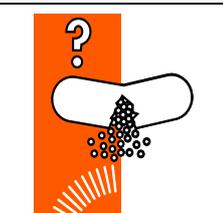
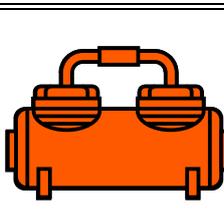
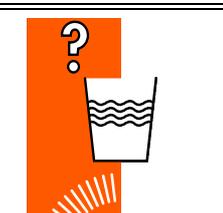
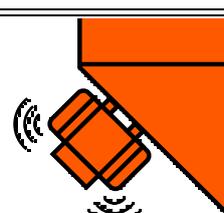
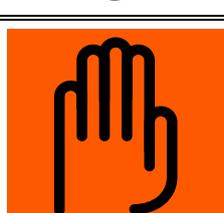
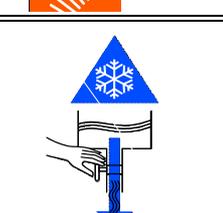
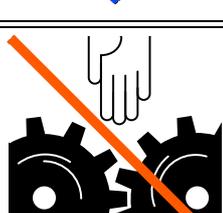
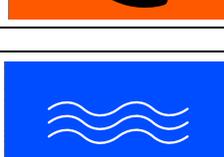
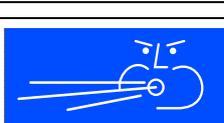
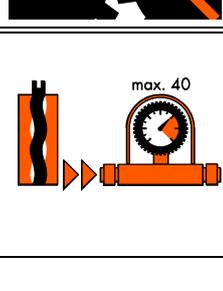
2. Reverse valve

3. Switch off compressor

4. Air pressure manometer

10. Air pressure safety switch

11. Air to spraying gun

	Drives Star wheel		Faults Motor safety switch off
	Water pump		No material
	Compressor		No water pressure
	Vibrator		Wrong direction
Instructions			
	Manual operation		At subzero temperatures empty All water
	Automatic operation		Do not insert hand into operating machine
	Water		
	Air		Maximum operating pressure 40 bar

The PFT G 5 c is a continuous mixing pump for factory-blended dry mortar. It can be filled either by means of bags, a delivery hood or an injection hood.



FOLLOW ALL MATERIAL MIXING INSTRUCTIONS FROM MORTAR MANUFACTURER!

The G 5 c consists of individual portable components (modules) whose handy dimensions and low weight allow for quick and easy transportation.

NOTE THE FOLLOWING CONNECTIONS WHILE OPERATING:

1. Electrical Panel – Control box
2. Control box - Pump Motor
3. Control box – Star Wheel
4. Control box - Compressor
5. Compressor – Air-Water Manifold
6. Water Mains – Air-Water Manifold
7. Air- Water Manifold – Air Hose
8. Air Hose – Spraying Gun
9. Mixing Tube – Mortar Pressure Gauge
10. Mortar Pressure Gauge – Mortar Hose
11. Mortar Hose – Spraying Gun

The following terms and symbols are used in this manual to highlight important information:

NOTE:

Information for running the machine efficiently.

**WARNING!**

Precautionary information for the prevention of accidents.

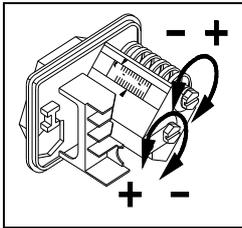
**WARNING!**

The machine should only be operated in perfect working conditions. Comply with all safety instructions in this manual! Rectify all defects and faults immediately. Proper machine operation includes full compliance with all operating instructions, carrying out specified inspections, and complying with maintenance instructions. Turn to page 3 12 05 402, Pt. 20 for more information.

The most important safety instructions follow. **Please read them thoroughly.** Comply with these instructions in order to get reliable quality service from the machine.

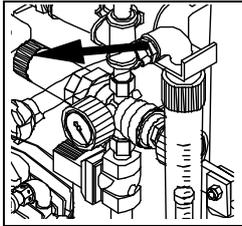
1. Follow all safety instructions on the machine. Ensure that all instructions are legible.
2. Inspect the machine once every shift for visible damages and defects. Stop operating the machine immediately if you notice any changes in safety or operating behavior. Notify the construction site supervisor immediately.
3. Do not make any changes to the machine that can jeopardize its safety. Always consult the machine dealer first. **Do not tamper with the machine** by equipping it with extra "safety devices".
4. All spare parts should conform to our technical specifications. Only use spare parts manufactured by PFT.
5. Only trained personnel should operate the machine. Clearly designate all lines of responsibility for operation, equipping, maintenance and repairs.
6. Technicians undergoing training in the operation of the machine should be supervised by experienced personnel.
7. Only qualified personnel should work on the machine's electrical system. All electrical work should only take place under the supervision of a qualified electrician and should comply with electro-technical safety regulations.
8. Observe all instructions for switching the machine on and off. Watch display lamps for signals.
9. When the machine is completely switched off for maintenance and repair work, ensure that it cannot switch back on accidentally. Do this by switching off the main switch, removing the key or by attaching a warning sign to the main switch.
10. Before cleaning the machine with a water jet, seal all openings as water should not enter electrical parts or caddy. Cover electric motors and control boxes thoroughly. After cleaning remove all seals and covers.
11. Use only original fuses with prescribed amps.
12. If work has to be carried out on a voltage-conducting component, a second technician should stand by to switch off mains in case of an emergency.
13. Disconnect the machine from the mains before you move it, even if you are only moving it a short distance. Reconnect the machine to the mains properly before starting up again.
14. Set up the machine on stable ground. Secure it from rolling away or moving during operation.
15. Lay out all conveying hoses safely. Do not rest them on sharp edges.
16. Depressurize all conveying systems before dismantling conveying hoses.
17. While unclogging hoses stand away from the machine to avoid injury through high pressure discharges of mortar. Always wear safety goggles. No other person should be close to the machine when unclogging measures are under way.
18. Use appropriate noise reduction measures if you exceed a noise level of 85 dB(A) while operating the machine.
19. Use the following accessories while spraying, if necessary,: safety goggles, construction site boots, safety clothing, gloves, inhalation mask, skin safety cream.
20. Have the machine inspected at least once a year by a qualified person. The machine should also be inspected otherwise as required.





Safety Switches

	Machine on	Mashine off
Water	2,2 bar	1,9 bar
Air	2,0 bar	3,0 bar

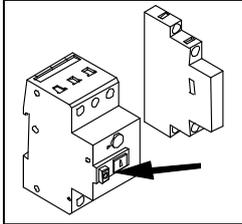


Compressor Safety Valve

5,0 bar against completely closed air pipe (factory setting and secured with knurled screw)

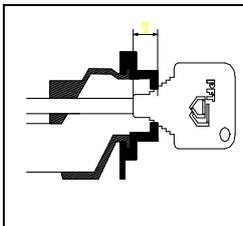
Pressure reducing valve

1,9 bar at max. water flow



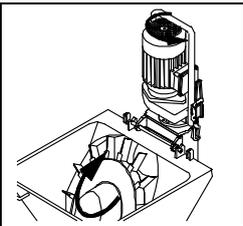
Motor safety switch

	kw	Voltage	term
Transformer		0,8 A	Q2
Vibrator/ Compressor		16 A	Q3
Water pump		1,9 A	Q4
Star wheel	0,55 kW	1,8 A	Q6
Pump motor	5,5 kW	12 A	Q7



Gap : Air Nozzle Pipe

The gap between the air nozzle tube and spraying cap should correspond to the diameter of the spraying cap.
e.g.: 14 mm spraying cap = 14 mm gap

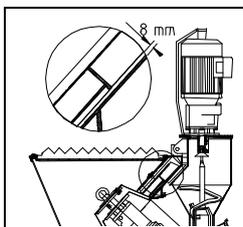


Rotation direction of Star Wheel

The star wheel is generally independent of the rotation direction. While using a SILOMAT conveying system, we recommend clockwise rotation (factory setting). This will ensure that the pump motor will rotate in the right direction.

Star Wheel

Distance between star wheel and hopper base: approx. 8 mm (factory setting)

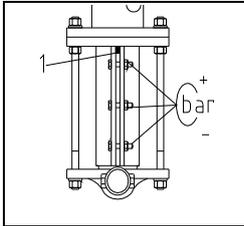


Rule of Thumb:

1,5 x diameter of largest grain of the dry mortar. Fit a star wheel distance disk (Item No. 20 10 19 00) for coarse-grained plasters.

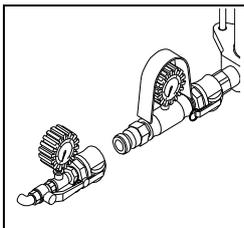
While using adjustable pumps, see to it that :

- the main switch is switched off during assembly.
- the stator protrudes evenly at the ends.
- the pin [1] is between the clamping jaws so that the stator cannot move.
- all screws on the clamp are tightened evenly.
- the tie rods are not too tight, and the stator ends in the flanges are firm and centrally placed.
- a new stator and rotor require a run-in time. Reliable pressure readings can only be made after one spraying operation.
- Pump components that neither attain the necessary conveying pressure nor maintain the necessary back pressure are worn out. **Replace** them immediately.



Checking the conveying pressure and back pressure

- Connect a 10 m conveying hose.
- Couple the pressure tester with outlet tap to the end of hose.
- Open valve.
- Switch on machine and let water run through it until water emerges from the outlet tap (de-aerate hose).
- Shut valve.
- Run the pump under pressure until pressure no longer increases.
- Switch off machine.
- If you do not have the required pressure, replace maintenance-free pump.
- The adjustable pump can either be tightened with a clamp or replaced.
- Check back pressure.



Maintain a back pressure of approx 14 bar through the rotor/stator pump (D5-2,5 TWISTER) in the hose.

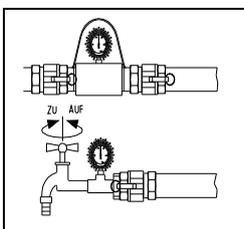
NOTE:

The testing pressure with water should be approx. 5-10 bar above the anticipated mortar pumping pressure!

Example:

20 m conveying hose (25 mm Ø) with gypsum mortar requires the pump to be operated at approx. 20 - 25 bar.

If the rotor is placed improperly in the stator, a gurgling sound will occur and water will flow back into the mixing chamber. Find the proper position in which the rotor seals with the stator by repeatedly switching the machine on and off.

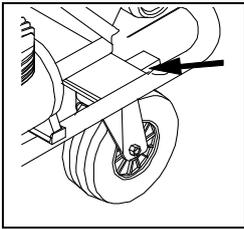


NOTE!

1. Stator TWISTER D5-2,5 can be used up to 25 bar operating pressure.
2. The maximum pumping distance depends on the viscosity of the mortar. Coarse-grained heavy mortar does not flow easily whereas fluid mortars, filling compounds and floor screed flow easily.
3. Use thick mortar hoses if you exceed an operating pressure of 25 bar.
4. To avoid machine breakdowns and excessive wear and tear of the pump motor, mixing shaft and pump always use **ORIGINAL PFT parts** such as :

PFT Rotors**PFT Stators****PFT Mortar Pressure Hoses****PFT Clamps****PFT Mixing shafts**

All these components are compatible with each other and form a single construction unit. If you do not adhere to these recommendations, you stand to forfeit your warranty rights. The quality of the mortar you are producing will also suffer.



- Transport all machine modules as close as possible to construction site. (for assembly see *Transport* page 3 12 01 419)
- Lock the rollers before starting the machine.
- Connect the water system with a 3/4" hose. Open water supply to deaerate and clean hose. Close water supply.
- Connect water hose to water pump.

Shut deaeration valves on water manifold.

- The fitted water (booster) pump can be used if water pressure falls below 2,5 bar.

Hand

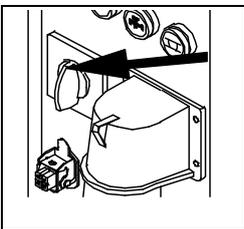
- Water pump runs continuously (cleaning of hose).

0

- Water pump is switched off.

Automatic

- Water pump runs simultaneously with mixing pump (if you are using stored water from a tank).



WARNING!

While working with water from a tank fit the suction inlet with a water filter (Item No.00 00 69 06) (deaeration).

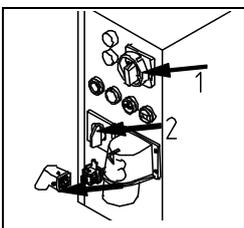


The machine should only be connected to an electrical panel with 32 A and a FI safety switch that conforms to regulations. The connection cable should conform to the version H07 RN-F 5x4,0 mm². For 5-pin connection use the Schuko socket for all 230V gadgets (e.g portable lamps).

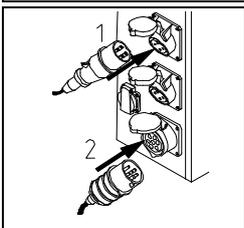
We recommend the use of PFT power cable 5x4,0 mm², 50m with CEE plug and coupling (Item No. 20 42 39 00).

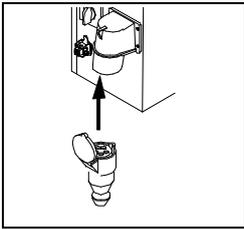
Before the caddy has power supply, see to it that :

- Main reversing switch is switched off (Position "0", lockable).
- Water pump switch, star wheel switch and compressor switch are switched to "0".
- Deactivate blind plug.



Connect pump motor (7-pin plug)



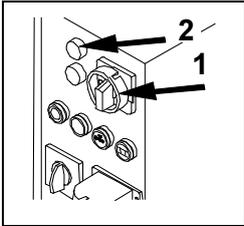


Connect power plug

Follow these instructions:

Main reversing switch should be on position I

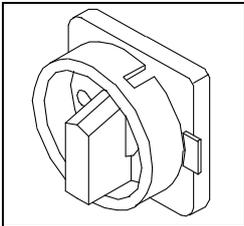
If red lamp lights up (change direction of rotation), PFT G 5 c will not turn on. Change direction of rotation at main reversing switch.



If the direction of rotation is wrong, follow these instructions:

You can lock the main reversing switch by pushing the direction plate either to the right or to the left. With that you have chosen the direction of rotation. If the switch is turned to the left, it can be turned back to O, but not to the right side. The figure printed on the plate shows you in what position the switch is locked.

Never let the pump run dry (remove blind plug).

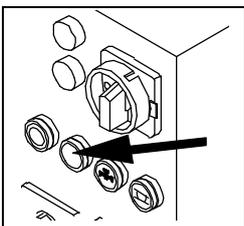


Warning!

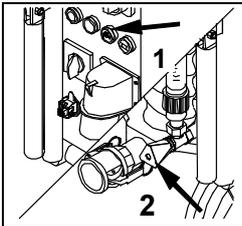
Do not remove protection grill either while preparing to set up machine or during operation.



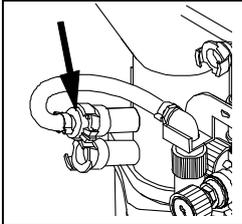
If red lamp („change of direction“) does not turn off, see *Faults and Solutions*



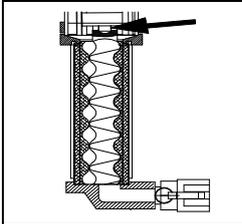
Press green pressure button (on).



Press water flow button (1) (water pump should be running). Set approximate amount of water with needle valve (2).



Connect the water hose of the water flow meter to the top water inlet of the mixing tube.



Press water flow button briefly. The mixing chamber should contain enough water so that the top of the rotor is covered. Watch out for loss of water. If you lose water, the rotor may not be working properly.

Check water level (can be done with tilted pump motor).



WARNING!

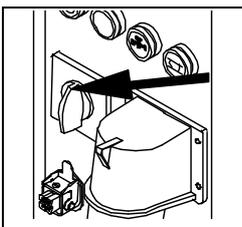
By removing the 7-pin plug of the mixing pump you can interrupt power supply (safety measure). To restart machine press green button (on).

Set star wheel switch on "Hand". You can set the star wheel on:

HAND (Manual Operation)

0

AUTOMATIC

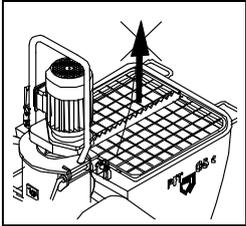


HAND (Manual Operation)

The star wheel always runs when the machine is connected and switched on. Material can be added to the mixing chamber in this position when the pump is not running. This is called pre-wetting. It is advisable to pre-wet in the case of heavy materials or materials bonded with dispersion agents. While doing so open the lower water inlet in the mixing chamber so that excess water can run off. Interrupt power supply by removing blind plug.

NOTE!

The **TWISTER D 5-2,5** pump should always be **pre-wetted!**



The star wheel is switched off and the material supply to the mixing chamber is interrupted (e.g. to clean mixing zone with mixing tube cleaner, or to adjust pump).

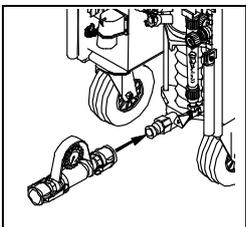
AUTOMATIC

The star wheel runs simultaneously with the mixing pump and is switched on and off with the air pressure control or remote control.



WARNING!

Do not remove protection grill when the machine is ready for operation!

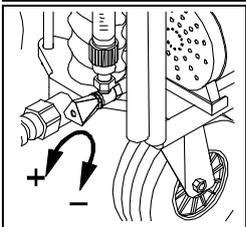


Couple the mortar pressure gauge to the pressure flange.

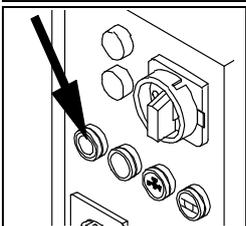


Fill the material hopper with dry mortar.

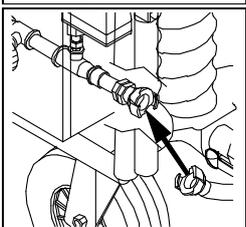
Turn star wheel switch (1) to Automatic. Connect blind plug (2). The machine is now in operation. Test the consistency of the mortar at the mortar outlet flange. **Do not connect** a mortar hose yet. While the motor is running, regulate the water quantity to approx. 10% higher than the rated setting. The rated setting is the water setting at which the mortar has the right flowing consistency. (e.g. Knauf-MP 75 – rated setting approx. 650 to 750 l/h)



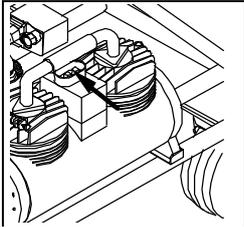
Optimize mortar consistency by increasing or decreasing water. Adjust the water quantity with the needle valve. Watch this at the cone of the water flow meter. Turn hand wheel clockwise to decrease amount of water, and anti-clockwise to increase amount of water.



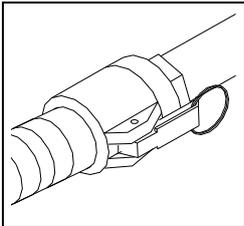
Press red pressure button (off). Machine stops.



Connect air hose to air manifold and spraying gun.



Switch on compressor.



Connect all necessary mortar hoses with each other. Flush with water to prevent clogging. Do not allow water to remain in the hoses. Use cleaning adapter (in tool kit): see page 3 12 01 413 for more information.
In case of unknown mortar quality add approx. 3 liters of smooth-flowing lime or gypsum sludge to the first hose after the machine.

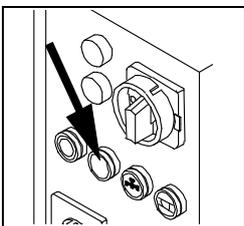


WARNING!

Ensure right and clean connections of couplings.

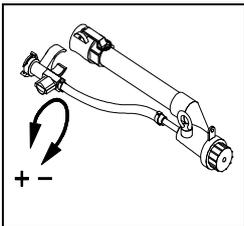
Connect hoses with the mortar pressure gauge and check all mortar hose seals.

Connect spraying gun (fine plaster gun or crimp valve gun) to mortar hose.



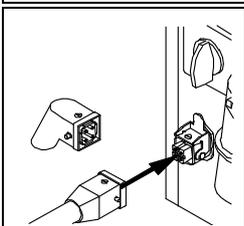
Press green button (on). Open the air tap on the spraying gun. The machine will start to run. You can now start the plastering operation.
At first a thin mixture will come out of the spraying gun. Shortly afterwards the mortar will achieve the right consistency. Adjust the flow if necessary with the needle valve.

You can switch the machine on or off by either opening or shutting the air tap on the spraying gun



NOTE:

While working without air supply (e.g. pumping floor screed), the machine is switched on and off by a 42 V remote control. To do this, remove the blind plug on the control coupling and connect control plug of the remote control.



Mortar Consistency

The mortar consistency is right when the material on the surface being sprayed flows into itself forming a consistent coat. Apply material on wall surfaces from top to bottom. If the water quantity is not enough, even mixing and spraying cannot take place. There may be clogging in the hose. Pumping components are thus subject to greater wear and tear.

Spraying Guns and Caps

Use spraying caps of 10, 12, 14, 16 or 18 mm depending on the mortar consistency. Larger caps reduce the projection speed and the rebound effect. Smaller caps create better atomisation. Note that the gap between the air nozzle tube and the spraying cap should correspond to the diameter of the spraying cap:
see page 3 12 05 403.

Interruption of Spraying Operation

Follow all instructions of mortar manufacturer while interrupting spraying operations.

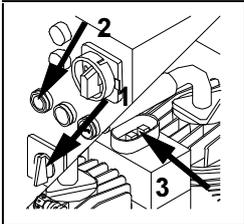
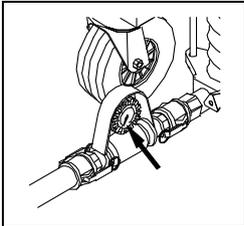
Clean the pump before long interruptions.:
See Procedures at the End of Work and Cleaning, page 3 12 05 413 for more information.

Every interruption of the spraying operation causes a slight irregularity in the mortar consistency. This generally normalizes itself once the machine is restarted. Do not keep on changing the water quantity at every irregularity. Wait till the mortar consistency at the spraying gun has regulated itself again.



WARNING !

Before dismantling the rotor/stator pump or opening the motor flange make sure the pump and hoses are depressurized.
Watch the reading on the mortar pressure gauge.

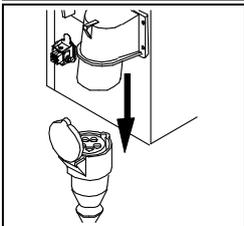


At the end of the spraying operation switch off material supply (star wheel) and turn star wheel switch to O (1).

Empty mixing tube.

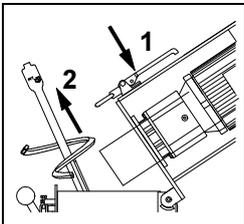
Press red button (off) (2).

Switch off compressor (3) and the tap on spraying gun.



Remove 5-pin plug on control box.

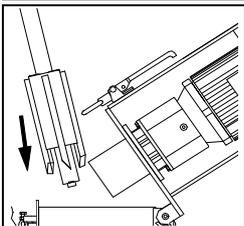
Disconnect mortar hose (only when depressurized).



Undo snaps on motor flange (1) and tilt motor.

Remove mixing shaft (2) and clean it.

Clean mixing zone with trowel.



Insert cleaning shaft and mixing tube cleaner with scrapers facing down.

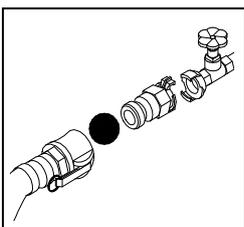
Shut motor flange and lock snaps on control box.

Press green button (on), run for approx. 5 - 10 secs. until mixing tube is clean.

Press red button (off), remove cleaner.

Fit in clean mixing shaft.

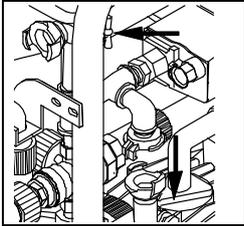
Shut motor flange and lock snaps.



To clean, connect the hoses (including the mortar pressure gauge) to the water inlet valve with the help of the cleaning adapter (in tool kit). This reduces wear and tear on the pump. A water-soaked sponge ball should first be pressed into the hose inlet.

To clean hoses with varying diameters, use sponge balls of appropriate sizes.

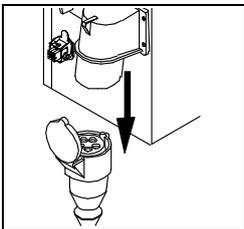
If hoses are heavily soiled, repeat this process until hoses are clean.



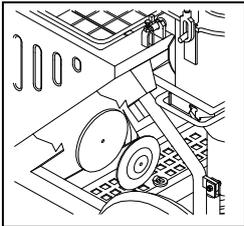
Clean the spraying gun with running water.

Shut water connection valve.

Open the side water valve and depressurize water hose. Disconnect it carefully.



Remove power supply cable.



Empty the material hopper if the machine is unlikely to be used for some days. Open the hopper-cleaning flap and remove the star wheel if necessary.



WARNING!

Before opening the hopper-cleaning flap, switch off electricity mains and all power supply.

How can you avoid or rectify problems with the PFT G 5 c ?

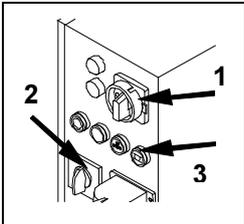
FAULT	CAUSE	SOLUTION
Machine does not start!	<i>Water</i> Water pressure too low Gauge shows less than 2,2 bar	Check water supply Clean dirt filters Switch on water pump
Machine does not start!	<i>Power</i> -Power supply okay? -FI safety switch activated? -Mains on ? -Display lamp lights up? -Motor safety switch activated? -Self-latching device not activated? -Protector faulty? -Fuses faulty? -Water safety switch not adjusted? -Pump blocked? Motor flange is open?	Rectify faults
Machine does not start!	<i>Air</i> -Insufficient pressure gradient in remote control due to blocked air pipe or air nozzle tube?	Rectify faults. Clean blocked air pipe or air nozzle tube.
Machine does not start!	-Air safety switch not adjusted? -Compressor connected and switched on?	Rectify faults.
Machine does not start! (Flow meter not working)	<i>Material</i> -Too much thick material in hopper or mixing zone? -Material in pumping zone too dry?	Rectify faults. Empty hopper by half and start up again. CAUTION! Switch off mains and remove plug.
Water does not flow! (Flow meter not working)	-Solenoid valve : Hole in membrane blocked? -Magnetic coil faulty? -Pressure reducing valve shut? -Water inlet on pump tube blocked? -Needle valve shut? -Cable to solenoid valve faulty?	Rectify faults.
Pump motor does not start!	-Pump motor faulty? -Connection cable faulty? -Plug or fitted socket faulty? -Motor safety switch faulty or off?	Rectify faults.
Machine stops after short run!	-Dirt filter clogged? -Pressure reducer filter dirty? -Hose connection or water pipe too small? -Water suction pipe too weak or too long?	Clean or replace filters. Increase size of water connection. Connect additional water pressure booster pump.
Machine does not switch off!	- Air pressure safety switch not adjusted or faulty? - Air hose faulty or gasket faulty? - Air tap on spraying gun faulty?	Adjust air pressure safety switch. Replace air hose or check compressor

	<ul style="list-style-type: none"> - Compressor not powerful enough? - Air pipe on compressor not connected? 	
Mortar flow stops! (air bubbles)	<ul style="list-style-type: none"> - Poor mixture in mixing tube? - Mixing shaft faulty? - Motor hauling bracket faulty? - Input hopper on mixing tube wet? - Material is lumpy and clogging mixing tube inlet? 	<p>Add water. When this does not help, clean or replace mixing shaft.</p> <p>Dry mixing tube inlet and start again. Replace hauling bracket.</p>
Mortar flow inconsistent! "Thick/thin"	<ul style="list-style-type: none"> - Too little water? - Water safety switch not adjusted or faulty? - Mixing shaft faulty, not an original PFT mixing shaft? - Pressure reducing valve not adjusted or faulty? - Rotor worn out, faulty? - Stator worn out or clamp faulty? - Clamp faulty (oval)? - Inner side of mortar hose faulty? - Rotor too deep in pressure flange? - not original PFT parts? 	<p>If too little water, increase water quantity by 10 % for approx. half a minute. Return slowly to normal setting.</p> <p>Readjust or replace pump components with original parts.</p> <p>Replace mortar hose. Check mixing shaft and hauling bracket.</p>
Water rises in mixing tube during operation!	<ul style="list-style-type: none"> - Back pressure in mortar hose higher than pump pressure? - Rotor or stator worn out? - Hose blocked by too thick mortar? (high pressure caused by too little water)? 	<p>Tighten or replace stator; if necessary also replace rotor. Clear hose block.</p>
Fault lamp lights up!	<ul style="list-style-type: none"> - Overloading? - Motor safety switch (16 A) activated (pump motor)? - Pump blocked with dry material? - Insufficient water? - Motor safety switch(2,5 A) activated (star wheel motor)? - Clogged material in hopper? - Motor safety switch activated? 	<p>Turn on safety switch, clean mixing tube and increase water supply when restarting machine.</p> <p>Clean hopper and star wheel.</p>
Red lamp lights up! "direction of rotation"	<ul style="list-style-type: none"> - Power cable too thin 5x4mm²? - Power connection too long 50m cable? - 1 phase missing? - Voltage too low? - Wrong direction of rotation? 	<p>Change direction of rotation at reversing switch.</p>



WARNING!

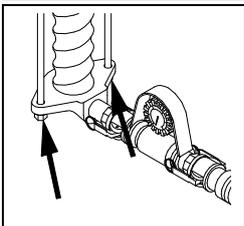
In accordance with safety regulations of the Builder's Guild, all personnel that clear hose blocks should wear safety goggles. Take proper precautions to stand far away from the machine to avoid injury through discharged mortar..



- Switch off star wheel motor (1).
- Run pump motor in reverse briefly.
- Change main reversing switch (direction of rotation lamp will light up) (2).
- Cover outlet of pump tube with foil.

Press blue pressure button (reverse button) (3) till reading on mortar pressure

- gauge is at 0 bar (water supply is automatically interrupted).
- Loosen nuts on pressure flange slightly so that residual pressure can escape.
- Remove hose connection and clean hose.



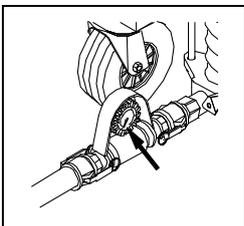
To remove residual mortar: see *Cleaning Procedures* page 3 15 01 413 for more information.



Measures for Power Failure and Water Supply Failure

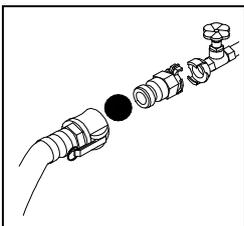
WARNING!

Depressurize hoses before opening couplings and connections. Watch the reading on the mortar pressure gauge.

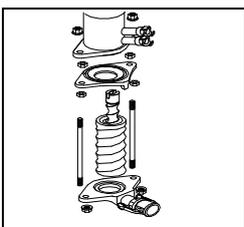


Measures for Power Failure

Clean mortar hoses immediately. Do this at the water outlet valve. Connect the cleaning adapter (tool kit) first to the mortar hose and then to the water outlet valve. Open water valve to press out mortar. Clean with sponge balls soaked in water.



Release tie rods, remove pump. Press the rotor out of the stator and clean it thoroughly. Clean pressure flange or after mixer (ROTOMIX or ROTOQUIRL). Clean mixing zone and mixing shaft with water and a trowel. Assemble the pump fully and prepare it for operation again.



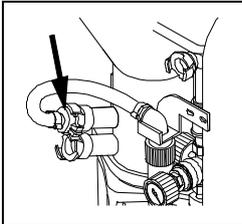
Measures for Water Supply Failure

Use suction inlet (Item No. 00 00 69 06) to supply the machine with clean water.

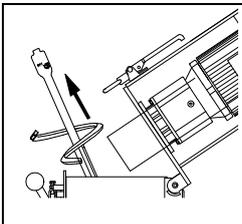
Measures for Subzero Temperatures

After cleaning machine:

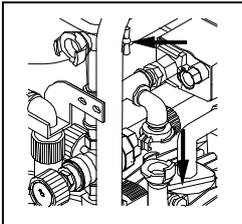
Cut off water supply.



Remove mixing shaft

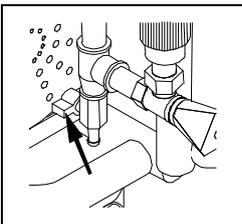


Open water outlet valve, release water pressure in hose.

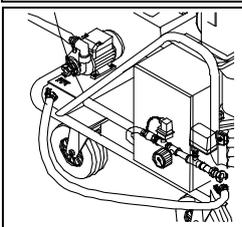


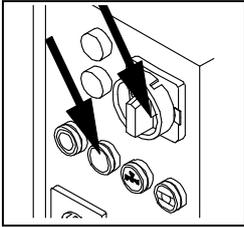
Turn off water connection, remove water hose, empty it.

Open outlet taps on water manifold.

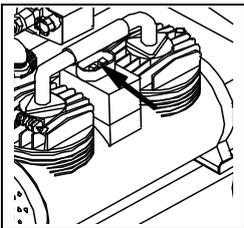


Remove air hose from spraying gun and fit it to water inlet.

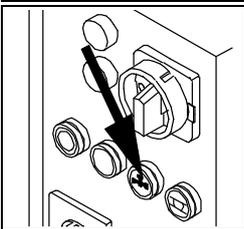




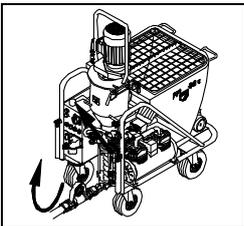
Switch on main switch and press green button (on).



Switch on compressor.



Press water flow button. Compressed air will now blow water out of the manifold (at 1,5 bar approx. for 1 minute).

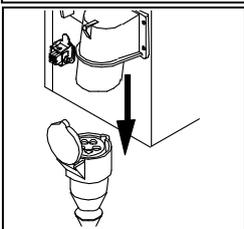


Swivel the entire pumping unit upwards and empty the mixing pump.

Disconnect mortar hoses and empty them.

Apart from a small residue within the rotor/stator pump, the machine is completely empty. Despite this, start the machine **carefully** the next day

Transport



First disconnect mains, then all other power connections.

Remove water connections.

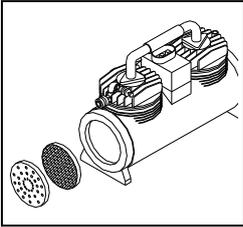
Disassemble mixing tube, if necessary.

The G5 consists of three modules (compressor, mixing tube and material hopper) that can be transported individually.



WARNING!

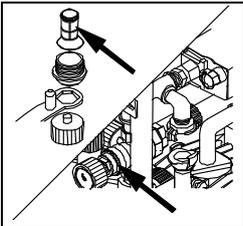
Depressurize all hoses before disconnecting them. Watch the readings on the mortar pressure gauge.



Clean compressor filter after every operation, if necessary, by knocking out dirt. Replace filter if it is heavily soiled.

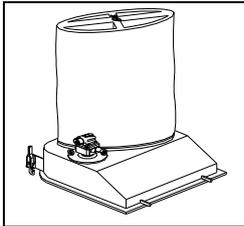
NOTE!

The coarse side of the filter should be on the inside.



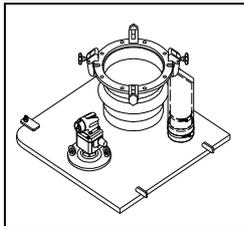
Remove dirt filters in the pressure reducer every fortnight and clean them. Replace if necessary.

Check the water inlet filter every day.



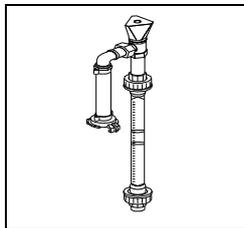
PFT Injection Hood for the G 5 (Item No. 00 04 43 34)

The PFT injection hood is used to fill dry mortar in the G 5 c with the help of the SILOMAT. When the G 5 c hopper is empty, the machine stops working.



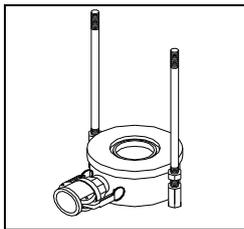
PFT Delivery Hood for the G 5 (Item No. 00 00 85 45)

The PFT delivery hood fills dry mortar in the G 5 c directly from the silo or dry mortar container. When the G 5 c hopper is empty, the mixing pump stops working.



PFT Water Flow Meter 31,5-315 l/h with Presto equipment for the G 5 (Item No. 00 00 96 62)

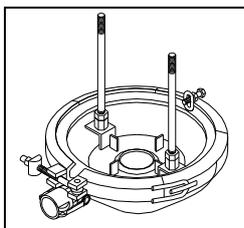
Consists of
 Water flow meter 31,5 - 315 l/h.
 Needle valve.
 Water hose with Geka coupling.
 Water inlet cap.



ROTOMIX D-Pump with 35 coupling (Item No. 20 11 80 00)

After-mixer for better and smoother mixing of material.
 Directly powered by rotor tangs. Content : approx. 1,2 l.

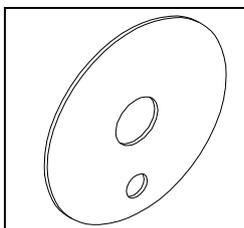
Follow all instructions of mortar manufacturer!



ROTOQUIRL II with 35 coupling (Item No. 20 11 84 00)

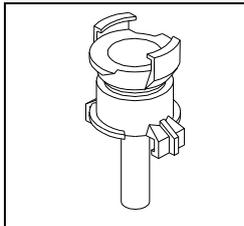
After-mixer for better and smoother mixing of material.
 Directly powered by rotor tangs. Content : approx. 4,2 l.

Follow all instructions of mortar manufacturer!



Star Wheel Distance Disc for coarse plaster (Item No. 20 10 19 00)

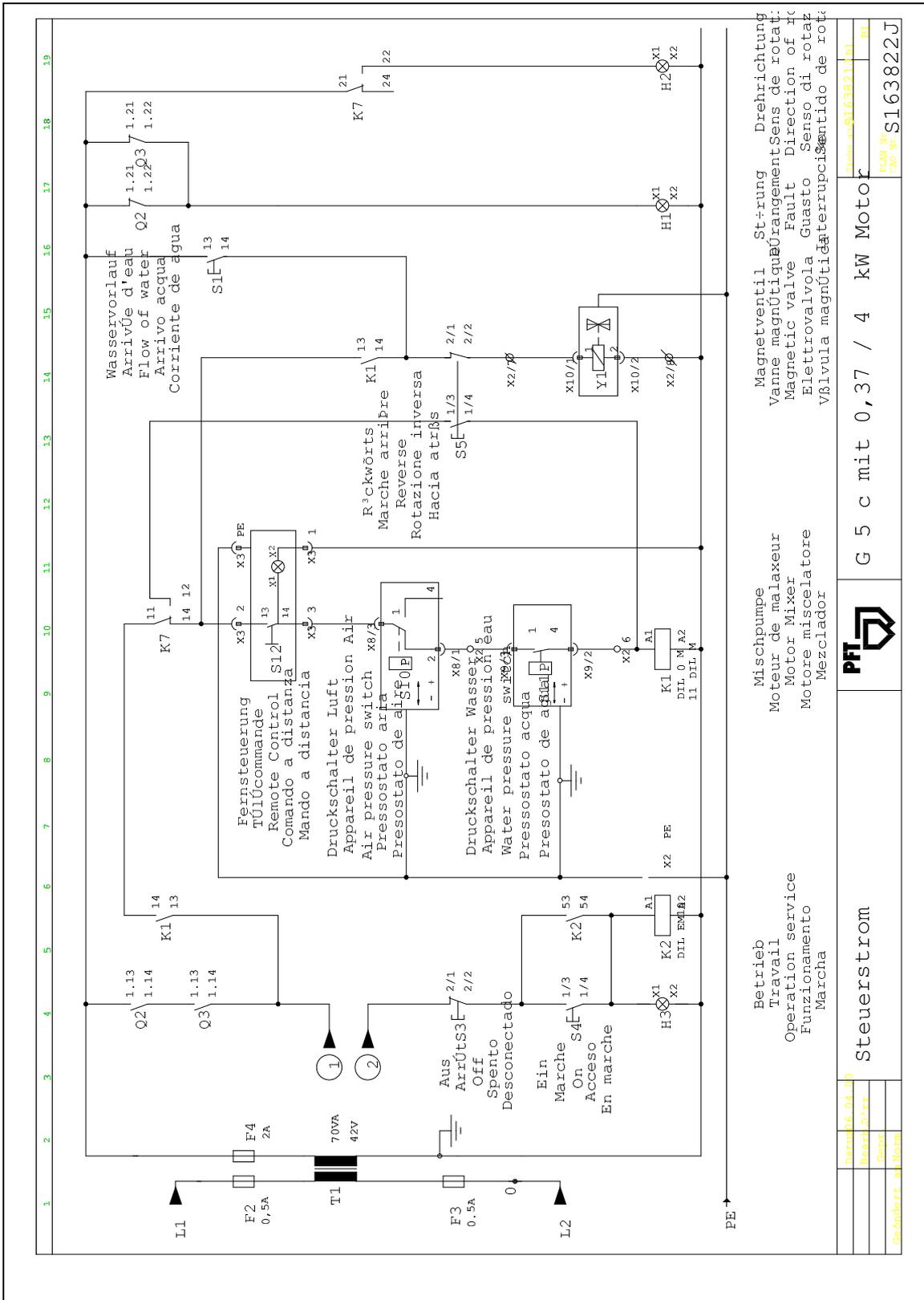
Increases the distance of star wheel to hopper base by 3 mm.

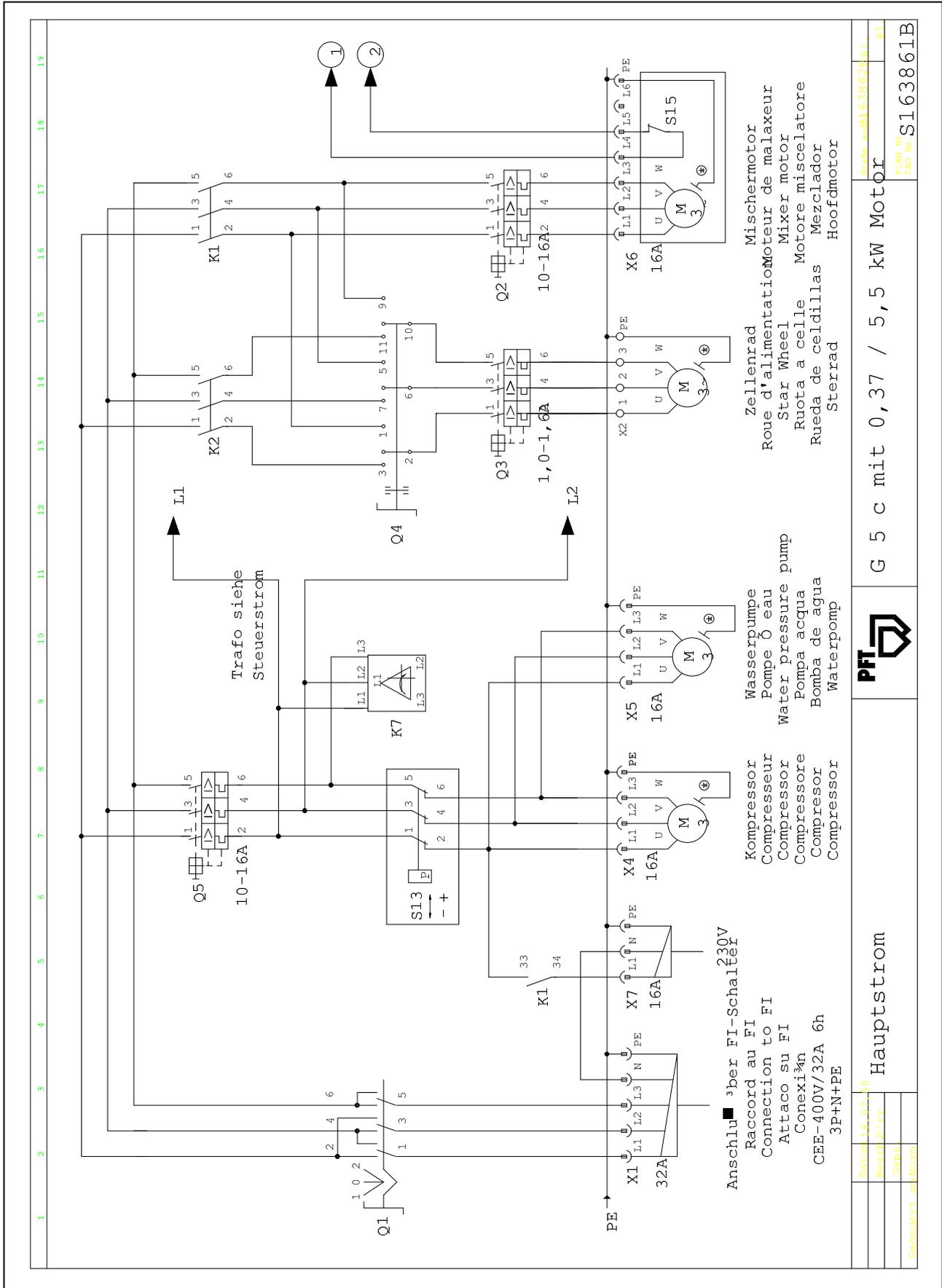


Water Inlet Cap with Geka Coupling (Item No. 20 21 58 00)

For better distribution of water in the mixing zone when water supply is low

Circuit diagram 0,37 / 4KW motor.....	.32
Circuit diagram 0,37 / 5,5 KW motor.....	.34
Circuit diagram 0,75 / 5,5 motor.....	.36
Spare part list hopper unit with frame38
Spare part list mixing tube unit.....	.40
Spare part list control box inside42
Spare part list control unit outside.....	.44
Spare part list water manifold unit.....	.46
Spare part list air manifold unit.....	.48
Spare part list water pump50





Siehe auch S163861B

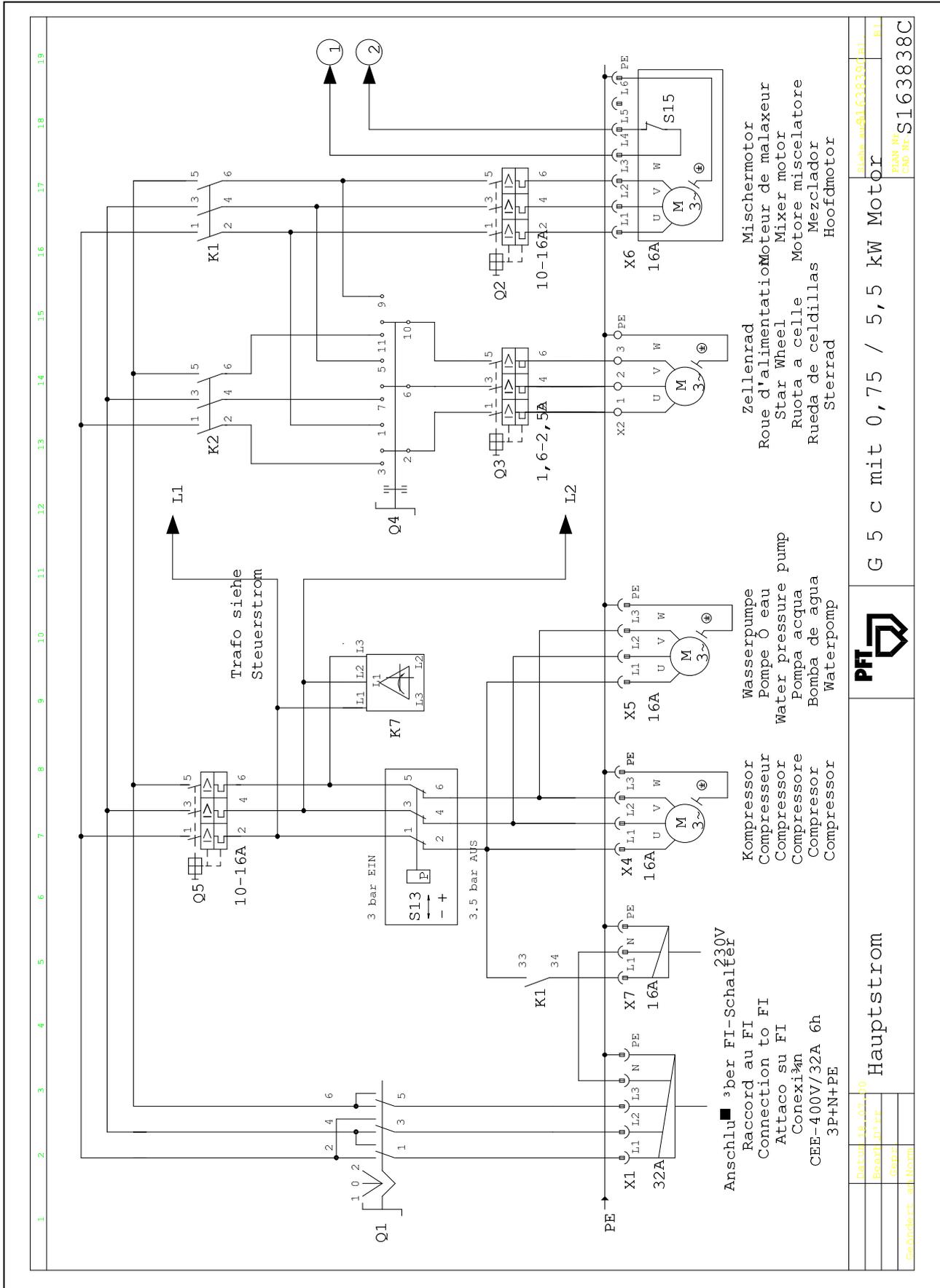
PLAN Nr.
CAD Nr. S163861B

G 5 c mit 0,37 / 5,5 kW MOTOR

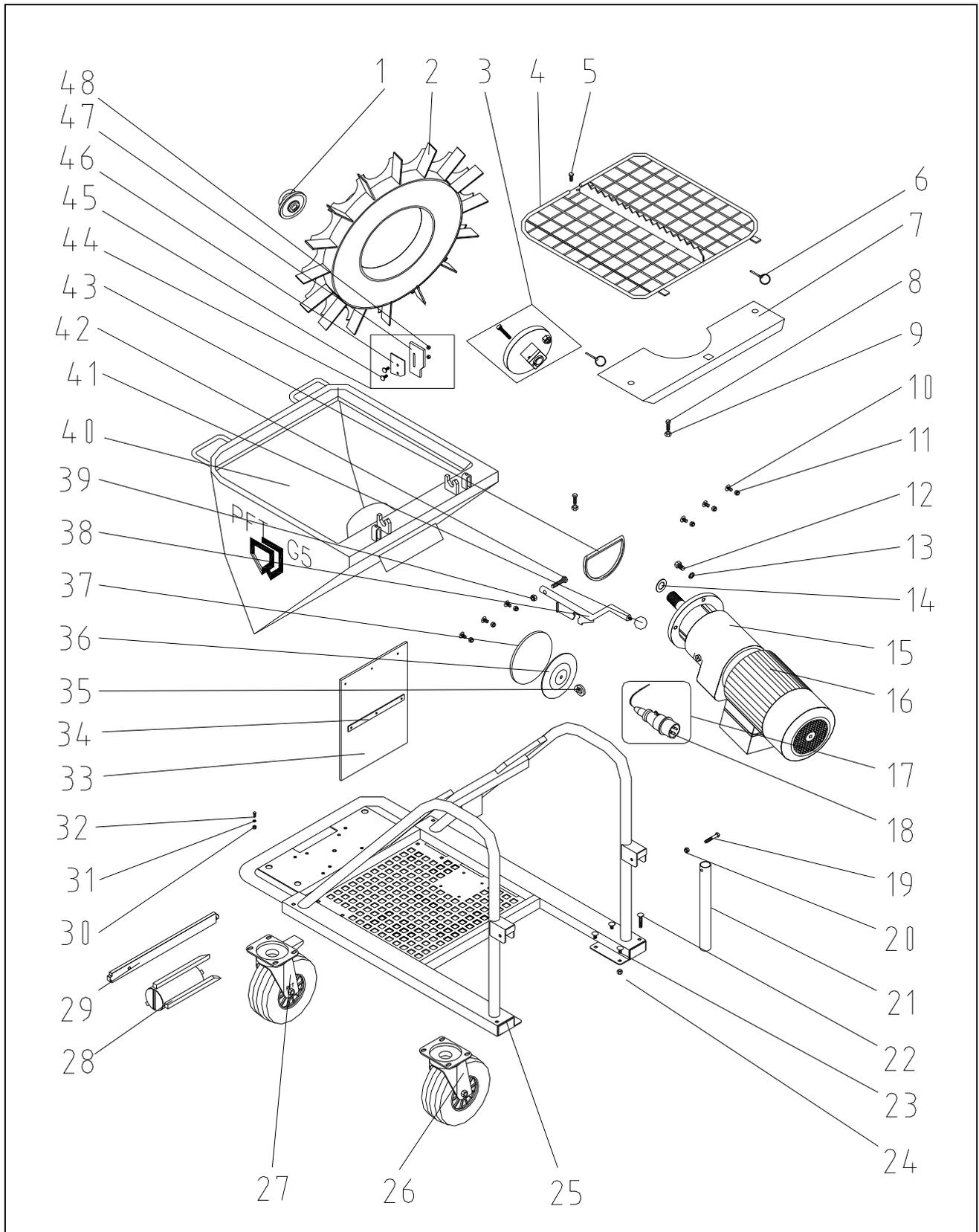


Hauptstrom

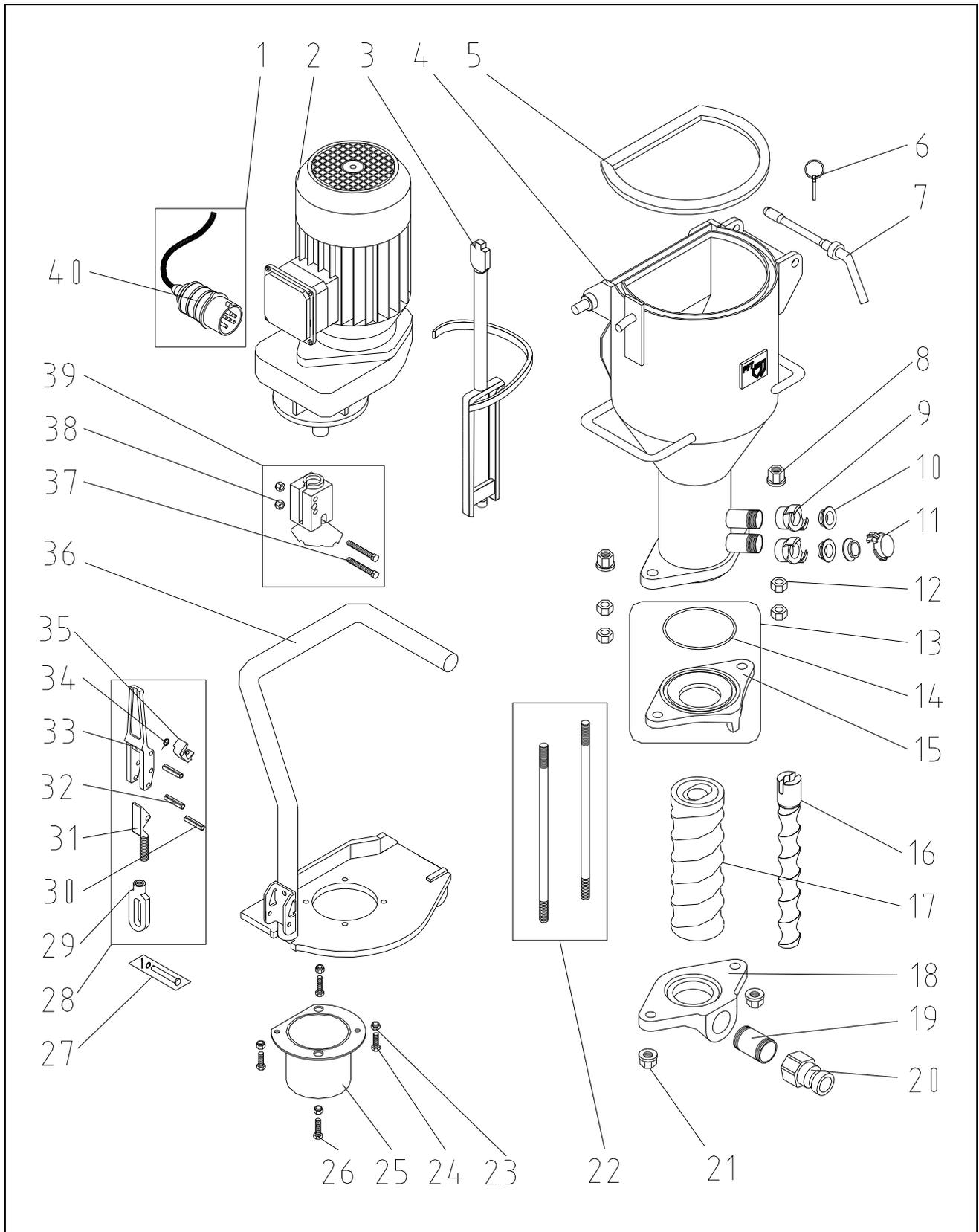
Datum 18.07.00
Bearb. D. J. r.
Gepr.
Geändert. am Norm



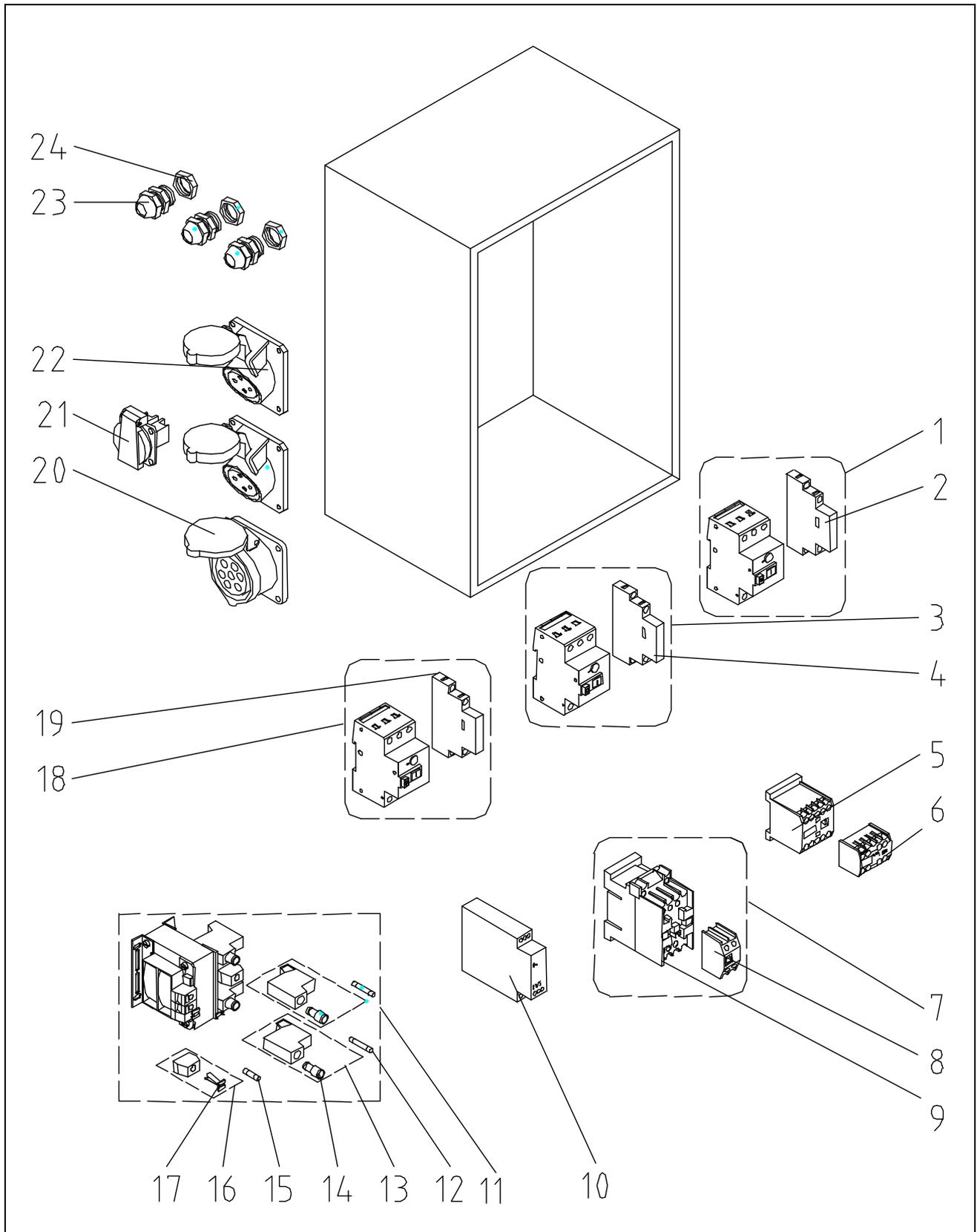
Anschluss über FI-Schalter 230V Raccord au FI Connection to FI Attacco su FI Conexión CEE-400V/32A 6h 3P+N+PE		Hauptstrom G 5 c mit 0,75 / 5,5 kW Motor	siehe auch S16330/EL PFT Nr. S163838C COD. NR.
Datum: 18.07.00 Bearb.: J. B. pr. Gepr.: Geändert:		PFT	S163838C



Item.	Qtl.	Art.No.	Description
1	1	20 10 17 10	Star wheel ring nut M24
2	1	00 04 64 73	Star wheel G 5
3	1	20 10 18 10	Star wheel fixing disc
4	1	00 00 73 61	Protection grille G 5 RAL9002
5	1	20 20 61 00	Hex. screw M8 x 20 DIN 933 galv.
6	1	20 10 10 10	Splint D 4.5 with ring
7	1	00 04 56 47	Dust guard for G 5 RAL9002
8	2	20 20 78 10	Hex. screw M8 x 25 DIN 933 galv.
9	2	20 20 64 00	Hex. nut M8 DIN 934 galv.
10	6	20 20 63 14	Saucer-head screw M8 x 16 DIN 603 galv.
11	6	20 20 72 00	Safety nut M 8 DIN 985 galv.
12	4	20 20 99 61	Hex. screw M12 x 20 DIN 933 galv.
13	4	20 20 91 10	Spring washer B 12 DIN 127 galv.
14	1	20 10 15 02	Distance disc star wheel 1.5mm
15	1	00 04 25 87	Geared motor 0,75 kW 28 rpm ZFQ38 RAL 2004
16	1	00 04 89 83	Geared motor 0.3 kW 12 rpm RAL 2004 NORD
17	1	00 00 83 61	Motor connection cable 2,4m CEE plug 4 x 16A 7h black loop 4mm
18	1	20 42 87 00	Plug CEE 4 x 16A 7h black no. 253
19	2	20 20 78 02	Hex. screw M8 x 50 DIN 933 galv.
20	2	20 20 72 00	Safety nut M 8 DIN 985 galv.
21	2	00 04 89 96	Folding handle 250mm
22	4	00 05 09 40	Saucer-head screw M8 x 55 DIN 603 galv.
23	12	20 20 63 14	Saucer-head screw M8 x 16 DIN 603 galv.
24	16	20 20 72 00	Safety nut M 8 DIN 985 galv.
25	1	00 04 91 83	Chassis G 5 c
26	3	00 00 11 15	Castor for G 4.66
27	1	00 00 11 16	Double lockable castor G 4.66
28	1	20 10 23 20	Mixing tube cleaner for D- and R-pumps
29	1	20 10 23 00	Cleaning shaft for D/R pumps
30	2	20 20 62 00	Safety nut M6 DIN 985 galv.
31	2	20 20 93 00	Washer B 6,4 DIN 127 galv.
32	2	20 20 71 07	Hex. screw M5 x 16 DIN 933 galv.
33	1	00 03 73 54	Rubber 380 x 350
34	1	00 01 99 64	Rubber clip
35	1	20 20 79 50	Ring nut M8 DIN 582 galv.
36	1	00 00 82 35	Cleaning hole cover G 5 RAL9002
37	1	00 00 23 58	Seal disc cleaning cover D=173mm
38	1	00 00 25 84	Locking lever for mixing tube G 4 with one notch
39	1	20 20 72 10	Safety nut M10 DIN 985 galv.
40	1	00 04 58 48	Material hopper G 5 RAL9002 with maker's mark
41	1	20 70 61 10	Knob M 12, plastic DIN 319
42	1	20 20 96 01	Hex. screw M10 x 45 DIN 931 galv.
43	1	20 10 11 02	Gasket cleaning cover
44	1	00 03 91 79	Additional parts to fit scraper for starwheel at G5
45	2	00 02 26 01	Saucer-head screw M6 x 20 DIN 603 galv.
46	1	00 02 26 04	Holding plate for scraper rubber
47	1	00 02 26 02	Scraper for starwheel G5
48	1	20 20 62 00	Safety nut M6 DIN 985 galv.

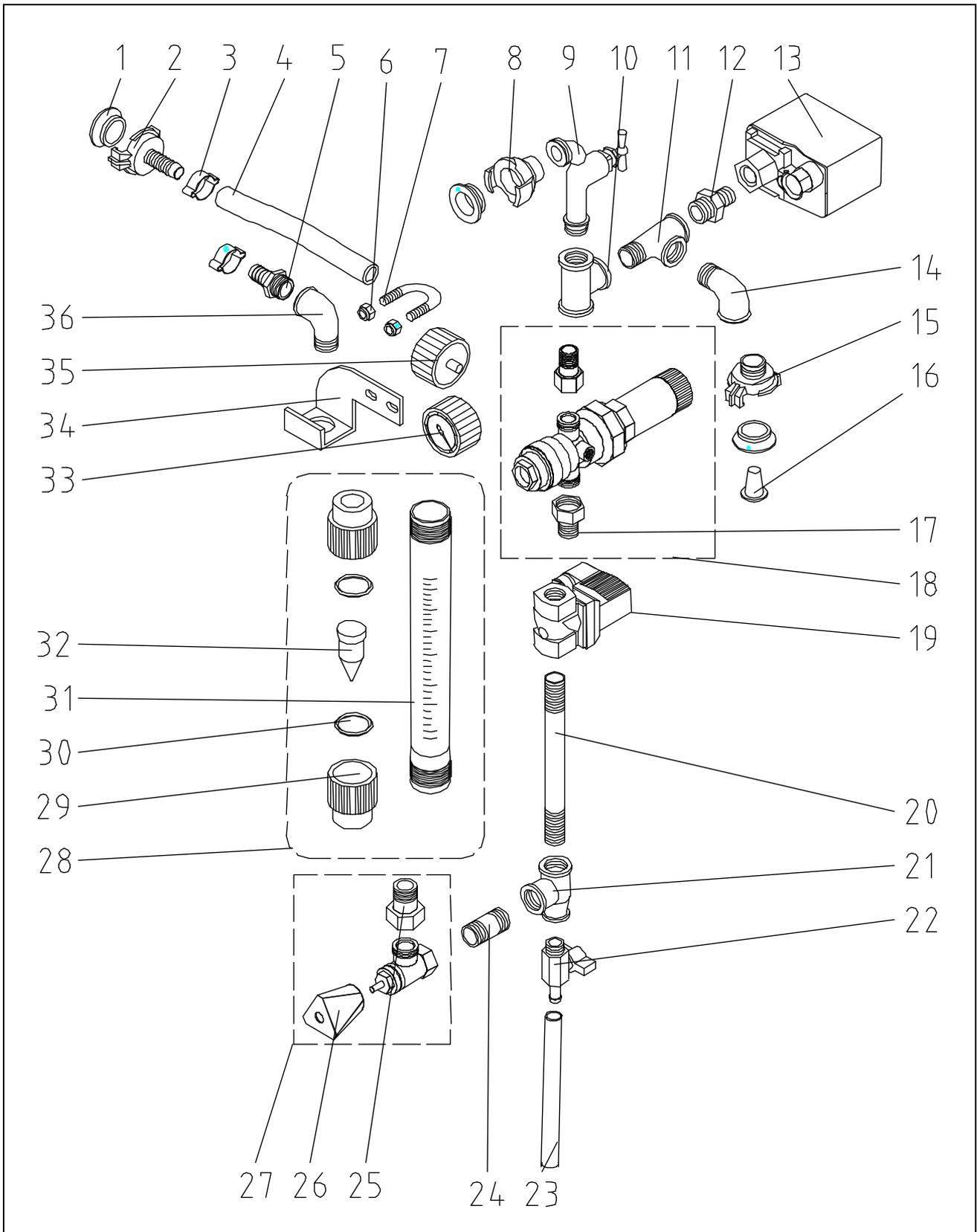


Item	Qty.	Art.No.	Description
1	1	00 02 09 64	Motor connection cable 1,9m CEE plug 7x 16A 6h blue loop 5mm
2	1	00 01 04 89	Geared motor 4kW 273rpm RAL2004
3	1	00 04 86 29	Mixing shaft reinforced for G 4/G 5
4	1	20 10 06 50	Mixing tube with mixing chamber without 20 10 10 00
5	1	20 10 09 00	Gasket motor hinge flange G 4 20 x 15 x 750
6	1	20 10 10 10	Splint D 4,5 with ring
7	1	20 10 12 02	Hinged bolt pin for motor hinged flange galv.
8	2	20 20 99 21	Collar nut M16 DIN 6331 galv.
9	2	20 20 11 00	Geka coupling 1" int. thread
10	3	20 20 17 00	Gasket Geka-coupling
11	1	20 20 16 50	Geka coupling dummy cover
12	4	20 20 99 20	Hex. nut M16 DIN 934 galv.
13	1	20 10 42 15	Suction flange D-pumps with O-ring LA=200mm
14	1	20 10 42 30	O-ring 117 x 5 for suction flange
15	1	20 10 42 14	Suction flange D-pumps for O-ring La=200mm
16	1	00 02 13 99	Rotor D5-2,5
17	1	00 01 05 45	Stator TWISTER D5-2,5
18	1	00 04 16 64	Pressure flange D-Pumpe 1 1/4" ext. thread, G 4
19	1	00 00 17 92	Double nipple 1 1/4" x 60 no. 23 galv.
20	1	20 19 93 01	Coupling 25 male 1 1/4" int. thread
21	2	20 20 99 21	Collar nut M16 DIN 6331 galv.
22	1	20 11 87 80	Tie rods M16 x 370mm (1 set = 2 pieces)
23	4	20 20 72 00	Safety nut M 8 DIN 985 galv.
24	2	20 20 78 00	Hex. screw M8 x 30 DIN 933 galv.
25	1	20 10 29 01	Guard for hauling bracket G 4
26	2	20 20 78 01	Hex. screw M8 x 35 DIN 933 galv.
27	1	20 20 85 22	Pin 8 H11 x 58 x 54 with washer and spline galv.
28	1	20 10 08 01	Snap lock with safety device
29	1	20 20 99 71	Nut for snap lock M14x1,5
30	1	20 54 76 02	Dowel pin 5 x 36 DIN 1481
31	1	20 20 99 74	Screw for snap lock
32	2	20 20 85 19	Dowel pin 8 x 40 DIN 1481
33	1	20 10 08 03	Handle for snap lock
34	1	20 10 08 04	Spring
35	1	20 10 08 02	Snap lock
36	1	00 04 76 21	Tilted flange
37	2	20 20 77 00	Hex. screw M8 x 60 DIN 933 galv.
38	2	20 20 72 00	Safety nut M 8 DIN 985 galv.
39	1	20 10 29 10	Hauling bracket G 4 with round funnel, with screws & nuts
40	1	00 01 18 31	Plug CEE 7 x 16A 9h blue no. 741

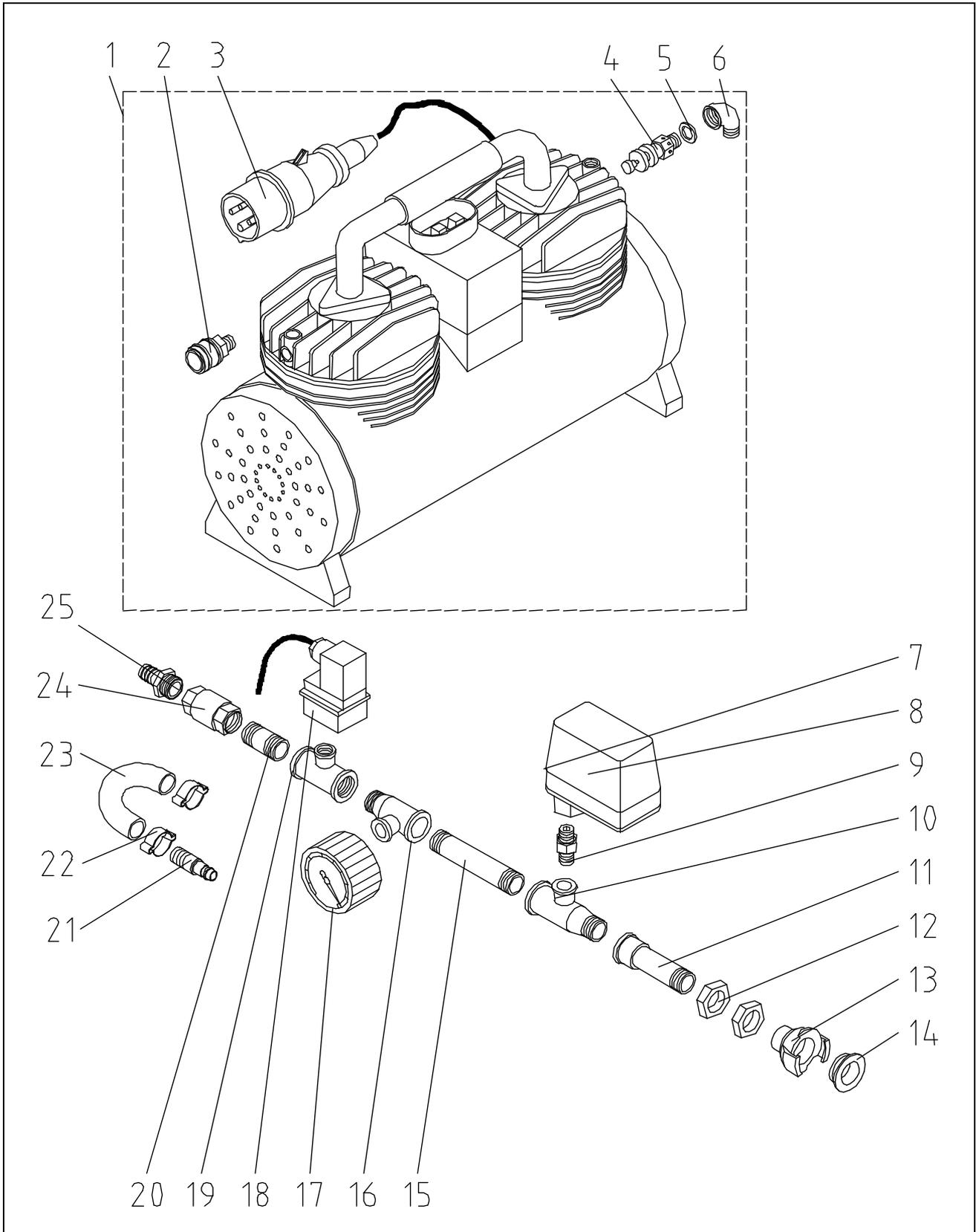


Item	Qty.	Art.No.	Description
1	1	20 45 08 00	Motor protection switch 6-10 A
2	1	00 00 13 86	Auxillary contact HS 11 for MSM type AC
3	1	20 45 08 01	Motor protection switch 1-1.6 A
4	1	00 00 13 86	Auxillary contact HS 11 for MSM type AC
5	1	20 44 66 10	Contacteur DIL EM 10 42V 50Hz/48V 60Hz
6	1	20 44 69 00	Auxillary contact 11 DIL EM
7	1	20 44 61 00	Contacteur DIL 0M/11 42V
8	1	20 44 69 10	Auxillary contact 11 DIL M
9	1	20 44 71 00	Contacteur DIL 0M 42V
10	1	20 45 27 51	Phase sequence relay 200-500 V type FPF 2
11	1	20 46 08 00	Transformer 230/400V 42V (100VA) fuse 5 x 30mm
12	2	20 41 90 70	Fuse 5 X 30, 0.5A
13	2	20 41 92 50	Fuse link TRKS 4/1-SI (5x30)
14	2	00 00 73 72	Fuse cap round/black with thread
15	1	20 41 90 21	Fuse 5 x 20, 2.0 A
16	1	20 41 92 30	Fuse link grey 20mm fuse
17	1	00 00 73 73	Fuse cap rectangular/orange
18	1	20 45 08 00	Motor protection switch 6-10 A
19	1	00 00 13 86	Auxillary contact HS 11 for MSM type AC
20	1	00 00 85 18	Panel mounted socket CEE 7 x 16A 6h red Nr2443
21	1	20 42 72 10	Panel mounted socket Schuko 16A grey no. 10199
22	2	20 42 66 10	Panel mounted socket CEE 4 x 16A 6h red no.144, flange 71 x 87
23	3	20 43 09 30	Skintop screw connection PG 16
24	3	20 43 09 44	Nut for Skintop screwed joint PG 16

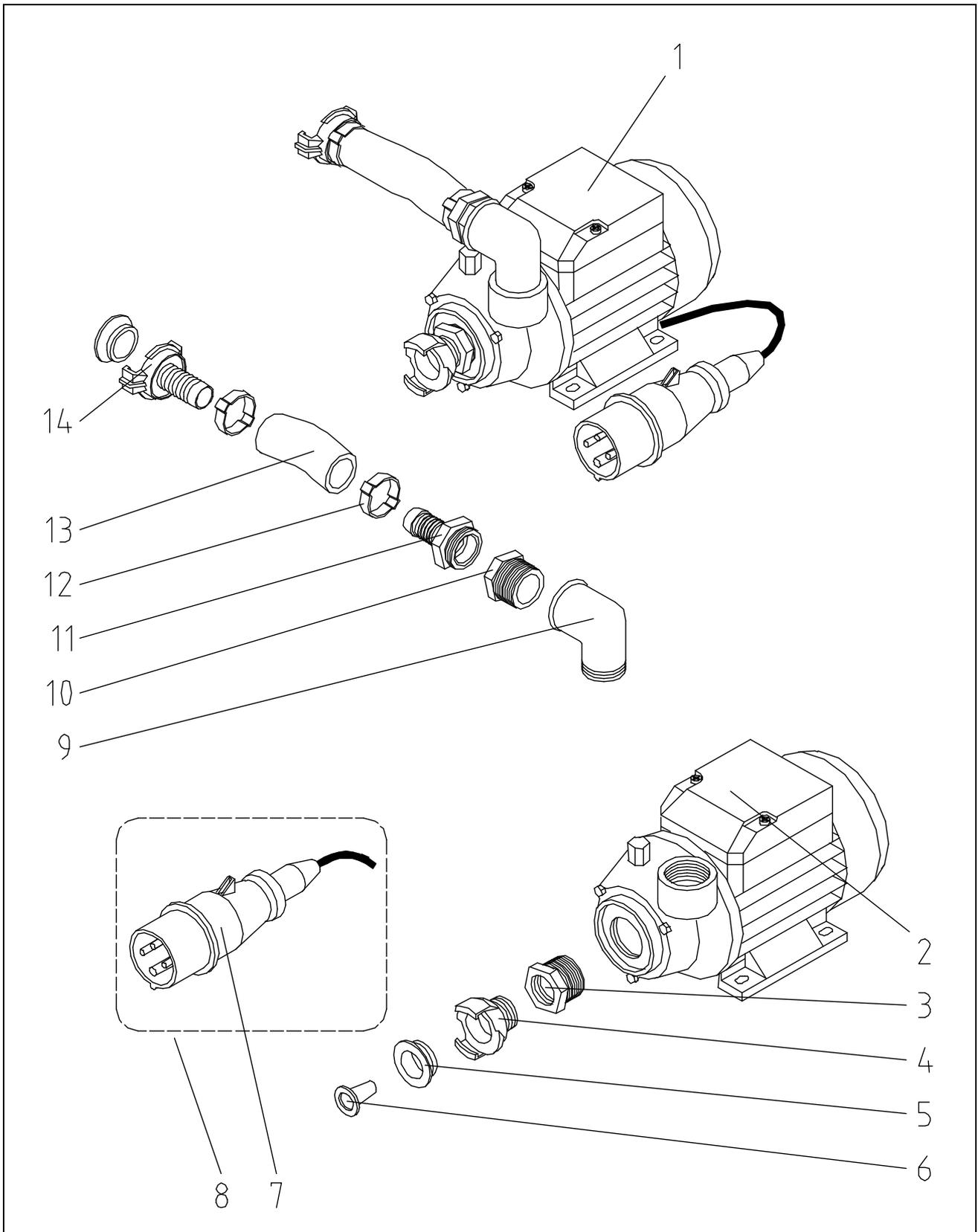
Item	Qty.	Art.-No.	Description
1	1	00 00 22 50	Control lamp yellow
2	2	20 45 91 02	Bulb 48V screw in type 2W
3	1	20 45 74 01	Yellow cover (20 45 74 00)
4	1	00 00 22 51	Control lamp red
5	1	20 45 80 00	Red cover (20 45 70 00)
6	1	20 45 52 01	Knob for main reversing switch Item no.20 45 52 00
7	1	20 45 52 00	Main reversing switch, cpl.
8	1	20 45 59 04	Contact element EK10, 1 closer
9	4	20 45 59 03	Mounting adaptor
10	1	20 45 59 15	Push button blue
11	1	20 45 59 04	Contact element EK10, 1 closer
12	1	20 45 58 01	Push button for water flow
13	1	20 45 59 04	Contact element EK10, 1 closer
14	1	00 00 93 10	Signal unit RLF-GN
15	1	00 00 23 54	Bulb 230V 3W plug in type BA 9 S
16	1	20 45 59 02	Lamp socket block
17	1	20 45 59 10	Push button OFF red
18	1	20 45 59 11	Contact element EK01, 1 opener
19	1	20 42 85 01	Dummy plug 4 poles, HAN 3A
20	1	20 42 86 05	Socket housing 4 and 5 pins, angled
21	1	20 43 12 00	Dummy cover PG 11
22	1	20 42 86 06	Male insert 4 pins HAN 3A
23	1	20 42 98 00	Coupling 4-pin HAN 3A with female insert
24	1	20 42 86 07	Female insert 4 pin, HAN 3A
25	1	20 42 86 04	Socket housing 4/5-pin, HAN 3A/HA 4
26	1	20 45 45 00	Pole reversing switch 25A type T 2-3-2/e (old version)
27	1	20 45 45 10	Knob for reversing switch with screw
28	1	20 45 45 00	Pole reversing switch 25A type T 2-3-2/e (old version)
29	1	20 42 51 00	Panel mounted housing with plug CEE 5 x 32A 6h red no. 391
30	1	20 44 45 00	Key for control box
31	1	20 44 46 00	Lock for control box



Item	Qty.	Art.No.	Description
1	3	20 20 17 00	Gasket Geka-coupling
2	1	20 20 15 00	Geka coupling 1/2" socket
3	2	20 20 25 01	Hose clip 20-23 (P)
4	1	20 21 36 02	Water-/air hose 1/2" x 400mm
5	1	20 19 04 10	Hose screw joint 1/2" ext. thread socket 1/2"
6	2	20 20 72 00	Safety nut M 8 DIN 985 galv.
7	1	20 20 99 85	Steel bow M8 x 3/4" x 43 galv.
8	1	20 20 13 00	Geka coupling 1/2" int. thread
9	1	20 21 50 00	No longer available, replacement 20215413
10	1	20 20 45 20	T-piece 1/2" int. thread no. 130 galv.
11	1	20 20 40 00	T-piece 1/2" int. thread 1/2" int. thread 1/2" ext. thread no.134
12	1	20 20 32 02	Double nipple reduced 1/2" -1/4" ext. thread Nr. 245 galv.
13	1	20 44 76 00	Pressure switch Typ FF4-4 0,22-4bar
14	1	20 20 36 10	Curved section 1/2" int. thread-ext. thread no. 92 galv.
15	1	20 20 09 00	Geka coupling 1/2" ext. thread
16	1	20 15 20 03	Water inlet filter for Geka coupling (P)
17	1	20 20 31 07	Nipple 1/2" ext. thread flat with nut 3/4" int. thread
18	1	20 15 52 00	Pressure reducer D 06FN 1/2"
19	1	20 15 26 13	Solenoid valve 1/2" 42V type 6213 A
20	1	20 20 34 14	Double nipple 1/2" x 180 Nr. 23 galv.
21	1	20 20 45 21	T-piece 1/2" 1/2" 3/8" int. thread no. 130 galv.
22	1	20 19 03 21	Tap 3/8" ext. thread with socket 10mm (P)
23	1	20 19 05 30	Hose section 9mm x 220mm
24	1	20 20 34 00	Double nipple 1/2" x 40 Nr. 23 galv.
25	1	20 20 31 05	Nipple with conical socket 1/2" ext. thread with reducer nut 3/4"
26	1	20 15 78 00	Hand knob for needle valve 1/2"
27	1	20 15 77 00	Needle valve 1/2" type 6701
28	1	20 18 30 00	Water flow meter 100-1000 l/h cpl.
29	2	20 18 33 10	Reduction nipple 1" ext thread - 1/2" int. thread plastic
30	2	20 18 32 00	O-ring 28 x 3,5 DIN 3771-NBR 70
31	1	20 18 31 00	Plastic tube 100-1.000 l/h
32	1	20 18 34 00	Cone for water flow meter 1500
33	1	00 01 99 13	Gauge 0-16bar 1/4" at rear, D = 50mm
34	1	00 03 73 56	Support for water flow meter
35	1	20 21 64 31	Gauge 0-16bar 1/8" at rear, D = 50mm
36	1	20 20 36 10	Curved section 1/2" int. thread-ext. thread no. 92 galv.



Item	Qty.	Art.No.	Description
1	1	00 00 79 15	Air compressor LK 250 cpl.
2	1	20 20 20 00	EWO coupling female 1/4" ext. thread non-blocking
3	1	20 42 79 00	Plug CEE 4 x 16A 6h red no. 252
4	1	20 13 12 00	Safety valve 3,5bar with washer
5	1	20 13 47 00	Sealing ring 13 x 20 x 2
6	1	20 20 36 50	Curved section 1/4" int. thread-ext. thread no. 92 galv.
7	1	20 13 51 11	Cover for pressure switch 20 13 51 10
8	1	20 13 51 10	Pressure switch Typ FF53-5,1/4" 2-3bar 3-phase opener
9	1	20 20 37 12	Screwed joint 1/4" ext. thread brass for pressure switch
10	1	20 20 43 00	T-piece 1/2" int. thread 1/4" int. thread 1/2" ext. thread no. 24
11	1	20 20 34 22	Extension 1/2" x 80 no.526 galv.
12	2	00 00 28 11	Nut 1/2" int. thread
13	1	20 20 13 00	Geka coupling 1/2" int. thread
14	1	20 20 17 00	Gasket Geka-coupling
15	1	20 20 34 00	Double nipple 1/2" x 40 Nr. 23 galv.
16	1	20 20 43 00	T-piece 1/2" int. thread 1/4" int. thread 1/2" ext. thread no. 24
17	1	20 21 64 31	Gauge 0-16bar 1/8" at rear, D = 50mm
18	1	20 44 76 60	Pressure switch PS3/AF1 HMRS, 1/4" 0,9-1,2bar opener
19	1	20 20 43 01	T-piece 1/2" int. thread 1/4" int. thread 1/2" int. thread no.130
20	1	20 20 34 00	Double nipple 1/2" x 40 Nr. 23 galv.
21	1	20 20 21 00	EWO-coupling male with socket 1/2"
22	2	20 20 25 01	Hose clip 20-23 (P)
23	1	00 02 06 13	Water / air hose 3/4" 1750 mm
24	1	20 21 90 50	Counter flow valve 1/2" int. thread
25	1	20 19 04 10	Hose screw joint 1/2" ext. thread socket 1/2"



Item	Qty.	Art.No.	Description
1	1	00 02 06 12	Pressure booster pump kpl.
2	1	00 00 11 30	Pressure booster pump
3	1	20 20 50 00	Reducing nipple 1" ext. thread-3/4" int. thread no. 241 galv.
4	1	20 20 09 10	Geka coupling 3/4" ext. thread
5	2	20 20 17 00	Gasket Geka-coupling
6	1	20 15 20 03	Water inlet filter for Geka coupling (P)
7	1	20 42 79 00	Plug CEE 4 x 16A 6h red no. 252
8	1	20 42 41 10	Motor connection cable 0,8m CEE plug 4 x 16A 6h red loop 4mm
9	1	20 20 36 20	Curved section 1" int. thread-ext. thread no. 92 galv.
10	1	20 20 50 00	Reducing nipple 1" ext. thread-3/4" int. thread no. 241 galv.
11	1	20 19 04 43	Hose screw joint 1" ext. thread socket 3/4"
12	2	20 20 29 01	Hose clip 28-31 (P)
13	1	00 02 06 13	Water / air hose 3/4" 1750 mm
14	1	20 20 16 00	Geka coupling 3/4" socket

drive		400V
		50Hz
	Pump motor	4 / 5,5 kW
	Star wheel motor	0,37 / 0,75 kW
rpm	pump motor	374 / 400 rpm
	Star wheel motor	16 / 28 rpm
Current input	Pump motor	11,5 A for 400 V
	Star wheel motor	1,75 A for 400 V
Power supply		400 V / 3~
		32 A
Main fuse		3 x 25 A
Generator		minimum 25 kVA
Water connection		$\frac{3}{4}$ Zoll min. 2,5 bar
Pump unit	TWISTER D5-2,5	Approx.ca. 22 l/min
Conveying distance	max. with 25 mm \varnothing	30 m
	max. with 35 mm \varnothing	50 m
Conveying pressure		max. 30 bar
Compressor output		0,25 Nm ³ /min
Dimensions and weight	Filling height	900 mm
	Hopper capacity	110 Liter
	Hopper capacity with extension	240 Liter
	Total length	1150 mm
	Total width	650 mm
	Total height	1520 mm
	Motor modul	49 kg
	Mixing pump modul	81 kg
	Hopper modul	117 kg
	Total weight	283 kg
Sound level		77±1 dB(A)

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