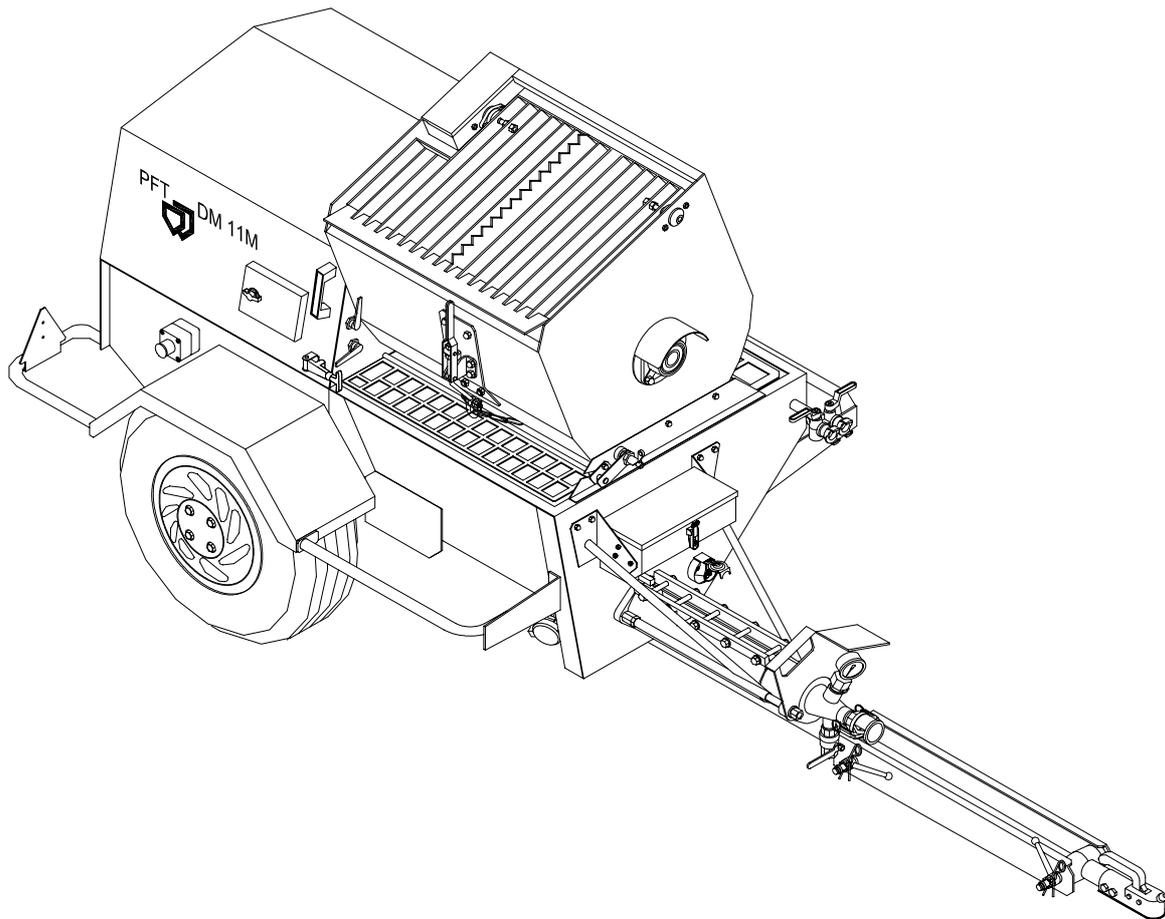


**OPERATING INSTRUCTIONS**  
(Item number of the operating instructions: 00 07 51 14)

**MIXING PUMP**

# PFT DM 11 M



WE KEEP THINGS MOVING





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Dear Customer,

Congratulations on your purchase. You have made a wise choice, because you appreciate the quality of a brand from a company with a name that exemplifies quality.

The PFT DM 11 M mixer pump uses state-of-the-art technology. It was designed in a task-optimised way so that it can be a trustworthy aid for rough construction site conditions.

These operating instructions should always be stored and kept at hand at the machine's application site. They give you information on the various functions of the system. Study the operating instructions thoroughly before starting the machine, as we claim no responsibility for accidents or damage to the machine caused by incorrect operation.

The PFT DM 11 M mixer pump will be a trustworthy aid, if it is operated correctly and handled with care.

Initial inspection after delivery

An important task of all technicians delivering the PFT DM 11 M mixer pump is the inspection of the machine settings at the end of the first work phase. The factory settings can be changed during the first operation. If these changes are not corrected in time, immediately after initial start-up, then problems during operating can be expected.

After putting the PFT DM 11 M mixer pump into service and giving appropriate instructions, after about two hours, the technician must always carry out the following checks / settings:

- ✓ Pump pressure, backpressure
- ✓ Air pressure switch

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## Proper use of the machine

The PFT DM 11 M is a mixer pump for construction site mixtures for inside and outside plastering, foundation plaster, patent plaster, insulating plaster, masonry mortar, screed. Follow all processing guidelines from the mortar manufacturer.

## Functionality

The PFT DM 11 M has been designed for filling with construction site mixtures. The mixing shaft and the pump are driven by a diesel motor. Water is added to the mixture in the mixing area where it is then mixed. The water must be added by hand.

After the mixing flap opens, the mortar flows into the pump container and is pumped away by a screw pump.

A spraying gun (accessory) can be mounted at the end of the conveying hose (accessory).

When operating the machine, the following aspects must be observed:

- ✓ Connection air manifold – air hose
- ✓ Connection air hose – spraying gun
- ✓ Connection pump – mortar pressure gauge
- ✓ Connection mortar pressure gauge – mortar hose
- ✓ Connection mortar hose – spraying gun

## Basic safety instructions

The following terms and symbols are used in these operating instructions for particularly important information:

### **NOTE:**

Special information for running the machine efficiently.

### **WARNING!**

Special information, regulations and restrictions concerning the prevention of damage.



### **WARNING!**

The machine should only be used if it is in technically perfect condition and in compliance with the regulations. Pay attention to safety and the operating instructions. It is especially important to immediately rectify all faults that could impair safety.

In order to make operating our machines as easy as possible for you, we would like to briefly inform you of the most important safety regulations. If you comply with these regulations, you will be able to use our machine in a safe and quality-assuring manner for a long time to come.

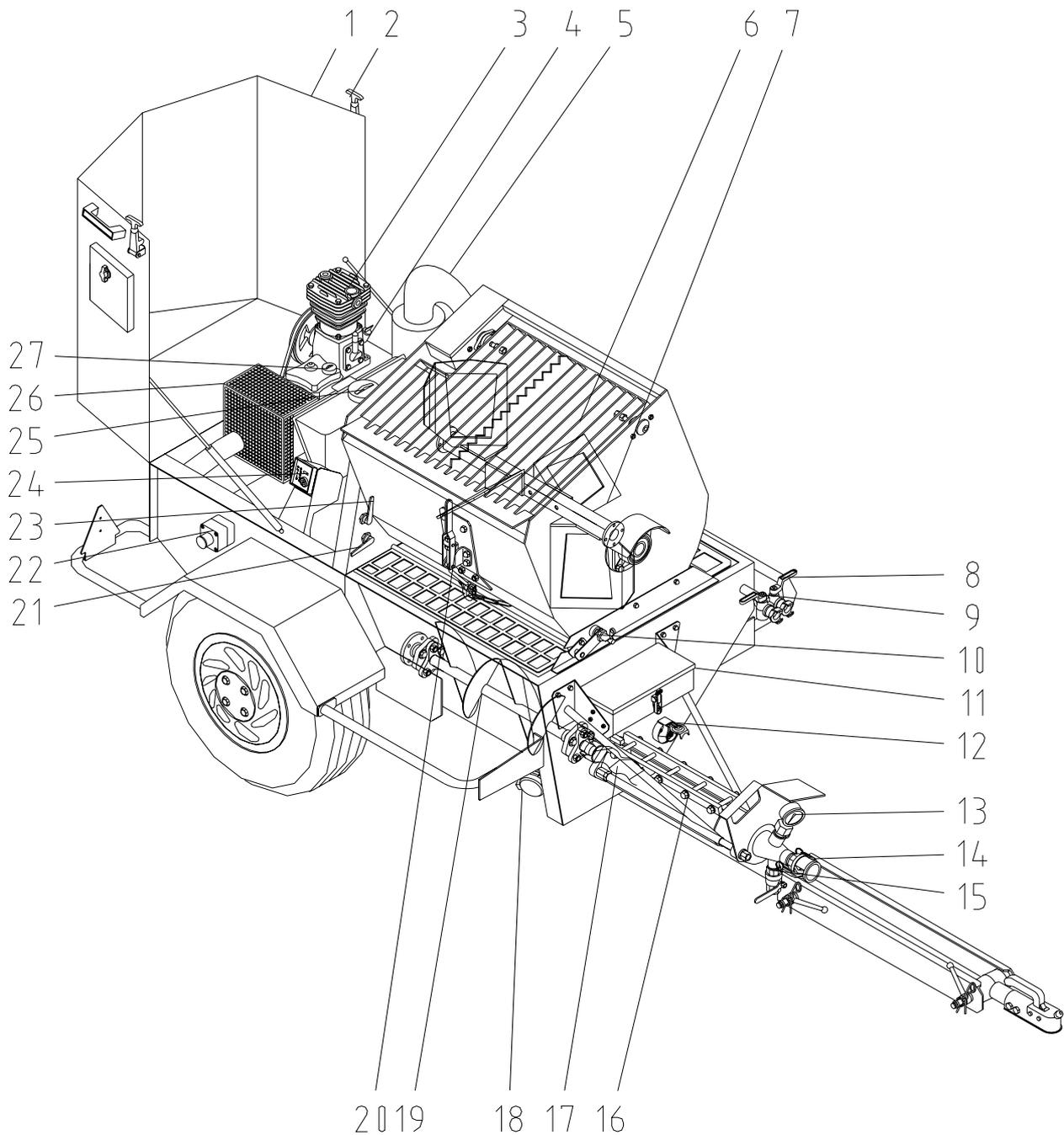
## Basic safety instructions

1. Follow the safety instructions and danger warnings on the machine. Ensure that all instructions are legible!
2. Observe all instructions for turning the machine on and off, control indicators and signal lamps as stated in the operating instructions.
3. Set up the machine on stable and even ground and secure it against unintentional movements. It should neither tilt nor roll away. The machine must be set up in such a way that it cannot be hit by any falling objects. The controls must be freely accessible.
4. Inspect the machine for visible damage and defects at least once every shift. When doing so, pay special attention to electrical power supply cables, couplings, plugs, air, water and conveying lines. Any faults detected must be rectified immediately.
5. All spare parts must comply with the technical requirements of the manufacturer. This is guaranteed for all original PFT parts.
6. The machine may only be connected to a worksite switchgear assembly with a FI safety switch (30 mA). If the machine has a 3-phase frequency converter, then the 30 mA FI safety switch of the worksite switchgear assembly must be sensitive to all currents.
7. The machine may only be put into service by trained or authorised personnel. Clearly define all lines of responsibility for operation, equipping, service and maintenance.
8. Personnel undergoing training should only be allowed to operate the machine under the supervision of experienced personnel.
9. All electrical work should be carried out by a qualified electrician or by trained personnel under the supervision of a qualified electrician and should comply with electro-technical regulations.
10. The machine must be completely switched off for maintenance and repair work. It must be ensured that it cannot be switched back on accidentally (for example, by locking the main switch and removing the key, or attaching a warning sign to the main switch).
11. If work on live components is required, a second person should be present to disconnect the power in the case of an emergency.
12. Depressurise all conveying systems before opening conveying lines!
13. Before cleaning the machine with a water jet, seal all openings through which water could enter, thereby impairing the safety and proper functioning of the machine (e.g.: electric motors and control boxes). After cleaning, remove all covers.
14. Only use original fuses with the prescribed ratings.
15. Disconnect the machine from any external power supply before you relocate it, even if you are only moving it a short distance. Prior to putting the machine back into service, it should be connected to the mains correctly.
16. The machine may always only be moved by crane if it is firmly strapped to a Euro pallet. All removable parts must be dismantled first. No-one should be present in the crane's danger area. All precautions must be taken to prevent parts from falling.
17. Safety devices such as e.g. inclination switches, protective grilles, etc. must not be manipulated. Before starting work, the safety devices should be inspected separately.
18. Longer work breaks will cause the mortar to set, which would result in operating problems. This is why the machine should always be emptied and cleaned (incl. spraying gun and conveying hoses) during long breaks.
19. Objects should never be placed in the dry mortar hopper or pump container.
20. If the permanent noise level exceeds 85 dB(A), appropriate noise protection devices must be provided.

21. The machine must be inspected by a specialist once a year. This inspection must be documented and include the following aspects: visual inspection for damage, functional check, inspection of safety devices, high-voltage check of control box.
22. In case of freezing temperatures, safety-relevant components could be damaged. If there is the danger of freezing temperatures, always drain the water.
23. The machine's lubrication and maintenance schedule must be complied with, otherwise the warranty claim will no longer be valid.
24. Changes to the machine are not permitted and Knauf PFT GmbH & Co. KG will not accept any liability for claims if changes are made.
25. For pumps and mixing pumps, the following additional safety precautions must also be observed: wear the following protective clothing while spraying: safety goggles, safety shoes, safety clothing, gloves, protective skin cream and respirator mask.  
When unblocking hoses, stand away from the machine to avoid injury from high-pressure discharges of mortar. Always wear safety goggles. No other persons should be near the machine.  
Only pumping hoses with an approved operating pressure of at least 40 bar may be used. The burst pressure of the conveying hose must be at least 2.5 fold operating pressure value. The machine may not be operated without a mortar pressure gauge.  
Depressurise all conveying systems before opening mortar pressure hoses. If the machine is remote-controlled using a spraying gun or remote control, the machine can be switched on and off at all times, without it being required for anyone to work directly at the machine.

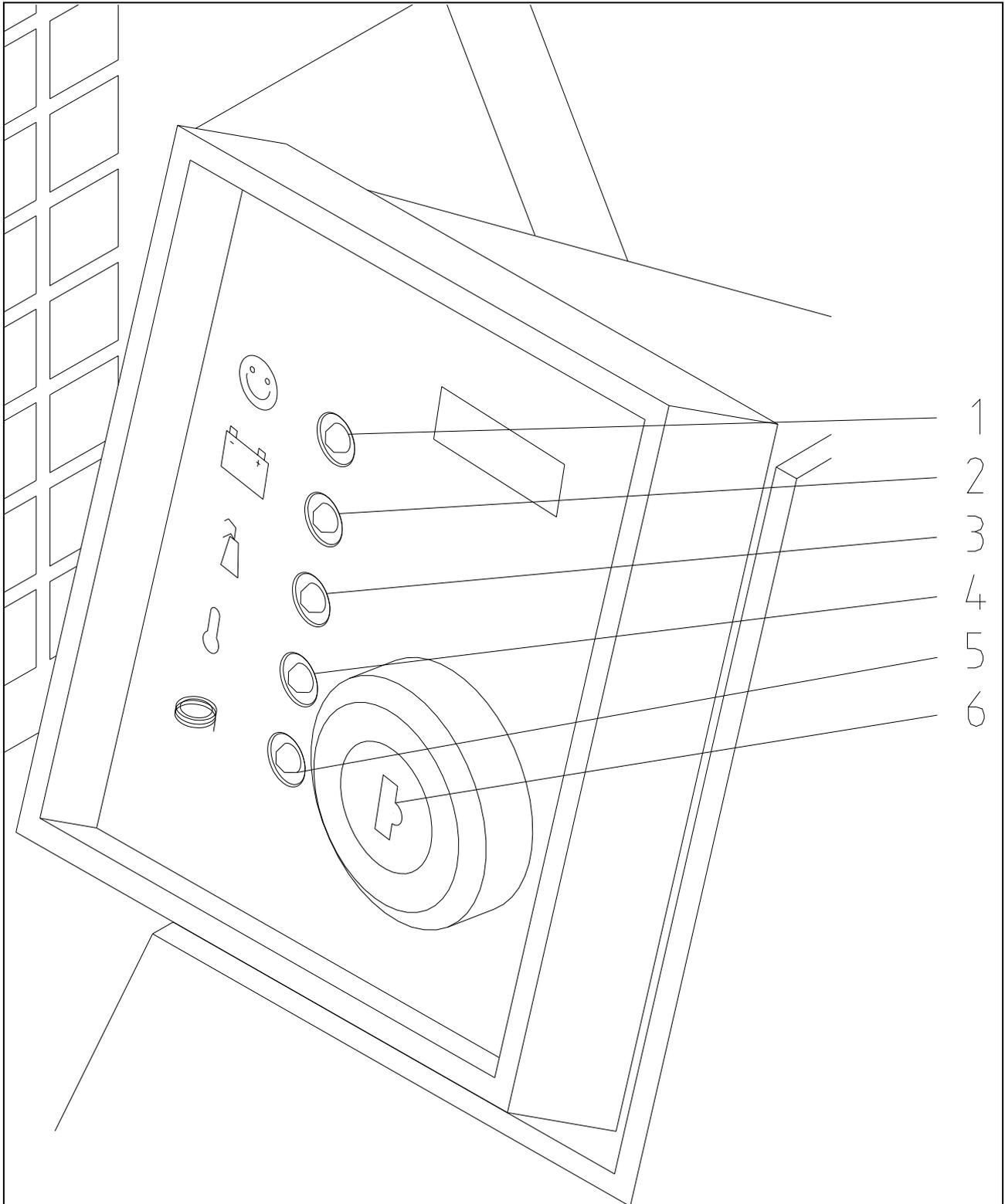


PFT DM 11 M overview



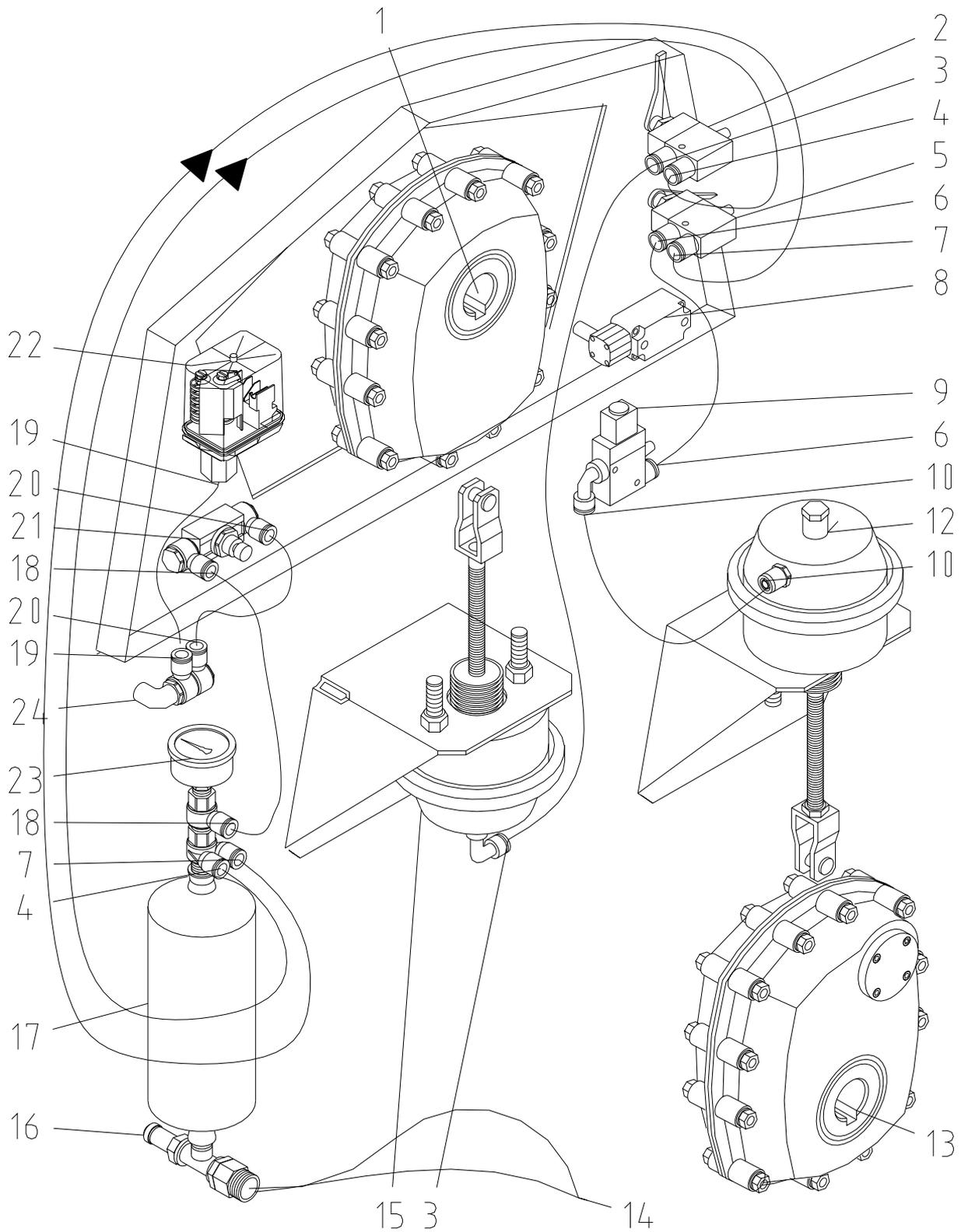
1. Motor cover	2. Motor cover lock
3. Compressor	4. Compressor – oil inlet cap
5. Air filter	6. Protective grill
7. Mixing shaft	8. Compressed air connection
9. Regulating air connection	10. Protective grill opener
11. Tool box	12. Light socket
13. Mortar pressure gauge	14. Supply hose connection
15. Outlet tap	16. Clamp
17. Rotor	18. Cleaning opening
19. Pump shaft	20. Mixer emptying drain
21. Pump On/Off	22. Emergency off switch
23. Mixer On/Off	24. Control and start panel
25. Fuel tank cap	26. Exhaust noise insulation
27. Motor – oil inlet cap	

Overview of control box



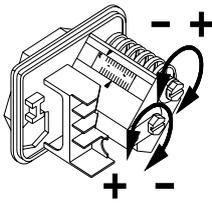
1. Motor on display lamp	2. Charge display lamp
3. Oil pressure display lamp	4. Motor temperature display lamp
5. Preheating display lamp without function	6. Start

Overview of air control



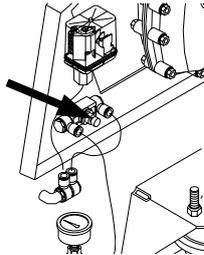
1. Mixer gearbox	2. Mixer ON-OFF hand lever valve
3. From the mixer ON hand lever valve	3. To the mixer air cylinder
4. To the mixer ON hand lever valve	4. From the compressed air tank
5. Pump ON-OFF hand lever valve	
6. To the solenoid valve	6. From the pump ON-OFF hand lever valve
7. From the compressed air tank	7. To the pump ON-OFF hand lever valve
8. Safety switch / pump safety grille	9. Pump ON-OFF solenoid valve
10. From the solenoid valve	10. To the pump air cylinder
12. Air cylinder for the pump	13. Pump gearbox
14. Air from compressor	15. Mixer air cylinder
16 Safety valve	17. Storage tank
18. To the pressure regulating valve	18. From the compressed air tank
19. To the compressed air safety switch	19. Conveying air to the spraying gun
20. Compressed air to the spraying gun	20. From the pressure regulating valve
21. Control pressure air flow control valve	22. Machine compressed air ON-OFF
23. Control pressure gauge	24. Compressed air to the spraying gun

Inspection of the setting values (factory setting)



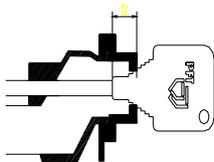
**Compressed air safety switch:**

Machine ON at 1.8 bar  
Machine OFF at 1.2 bar



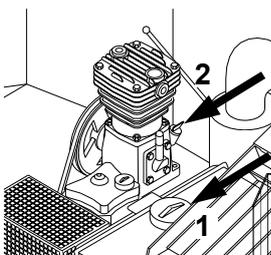
**Pressure regulation valve:**

1.9 bar at maximum motor speed



**Optional spraying gun for finishing coat:**

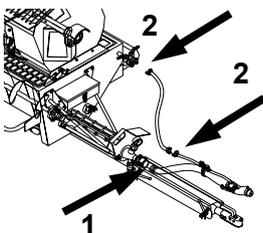
The gap between air nozzle tube and spray cap should always be equivalent to the diameter of the spray cap hole;  
e.g.: 14 mm spray cap = 14 mm gap.



Check the fuel level (1)

Check the compressor oil level (2)

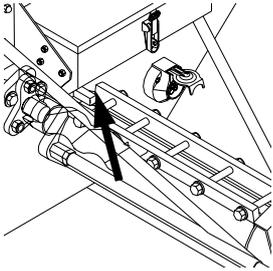
Check the motor oil level, see the Hatz Diesel operating manual, page 9, section 6



Connect the PFT material hose (1)

Connect the PFT spraying gun (2)

## Assembly - Rotor/Stator/Mortar pressure gauge



### Rotor/stator

The PFT DM 11 M mixing pump is equipped with the 2L6 pump system as standard.

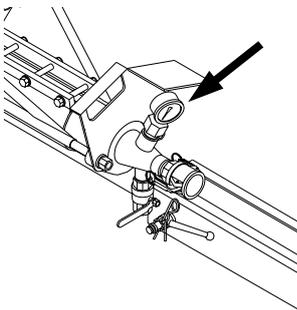
Rotor and stator are subject to wear and must be inspected on a regular basis.

New pump parts should be inspected before every spraying operation and brought to a pressure of approx. 20 bar (approx. 20 bar if the conveying medium is water, approx. 30 bar if it is mortar).



### WARNING!

Mortar pressure gauges are always to be used in compliance with the safety regulations of the Builder's Guild.



### Mortar pressure gauge

PFT mortar pressure gauges monitor the mortar consistency efficiently and easily.

The mortar pressure gauge is part of the scope of delivery

Some advantages of the mortar pressure gauge:

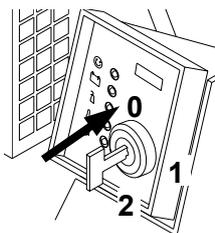
- Constant monitoring of correct conveying pressure.
- Early detection of clogging or overloading of pump motor.
- Produces zero pressure.
- Contributes significantly to the safety of operating personnel.
- Durability of pump components.



### WARNING!

Before installing/removing the mortar pump, make sure that the motor is switched off (0).

Please also refer to the Hatz Diesel operating manual, page 19, section 4.3 Switching off/stop



**NOTE:****Furthermore observe that:**

- A new rotor and a new stator need to be run in; real pressure values can only be determined after the first spraying.
- Pump components which do not attain the specified operating pressure (15 bar) are worn out and must be replaced.

**Checking the conveying pressure and backpressure:**

- Connect the conveying hose.
- Connect a pressure tester with an outlet tap to the end of the hose.
- Open the pressure tester's ball valve.
- Switch on the machine and let it run only with water (without dry material) until water emerges at the outlet tap (the hose has now been bled).
- Now connect the ball valve to the outlet tap.
- Let the pump run against the closed outlet tap until there is no more increase in pressure
- Switch off the machine.
- If the operating pressure is no longer attained, the maintenance-free pump must be replaced.

**NOTE:**

The test pressure with water should be 5 bar above the expected mortar conveying pressure. An adverse position of the screw pump in the liner will result in water flowing back to the mixing area accompanied by a distinct gurgling noise. Switch the machine on and off repeatedly until you find the position in which the rotor seals with the stator. If required, repeat this procedure several times.

- An operating pressure of 30 bar should not be exceeded.
- The minimum conveying distance depends mainly on how the mortar flows. Heavy, coarse-grained mortar does not flow easily. Fluid mortars, filling compounds and floor screed flow easily.
- It is recommended to reduce the length of the hose if you exceed an operating pressure of 30 bar or to use a hose with a larger diameter e.g. 50 mm.
- To avoid machine breakdowns and excessive wear to pump motor, mixing shaft and pump, always use original PFT parts, such as:
  - PFT rotors
  - PFT stators
  - PFT mixing shafts
  - PFT mortar pressure hoses.

These wearing components are compatible with one another and form a single constructive unit together with the machine.

## Mixer and pump operation

**Motor start procedure** (see start preparations, page 12, section 4.2.1)

Insert the starting key (1) and turn to position I.

The charging display lamp (4) and the oil pressure display (3) glow. If the charging display (4) does not light up, a safety switch has been pressed or the battery is empty.

Turn the starting key (1) to position II.

As soon as the motor starts running, release the starting key.

The starting key must spring back to position I automatically and remain in this position during operation.

The charging display lamp (4) and the oil pressure display (3) must go out immediately after starting.

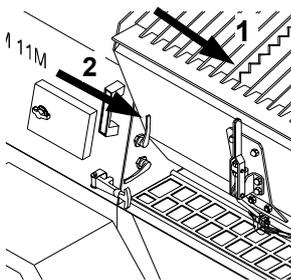
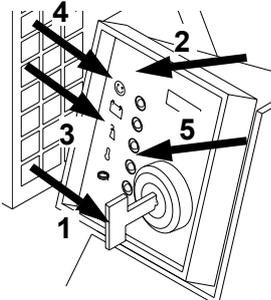
The display lamp (2) glows to show that the motor is running.

If the unit seems to be running irregularly, switch off the motor immediately, find and rectify the fault. (Please also refer to the Hatz Diesel operating manual, page 30, section 6)

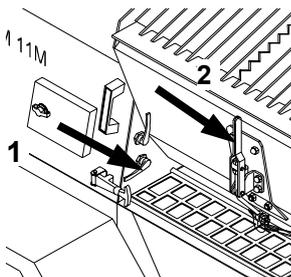
The motor temperature display (5) glows as soon as the cylinder head temperature becomes impermissibly high.

Switch off the motor and rectify the fault. (See also

Hatz Diesel operating manual, page 30, section 6)



- Fill lubricating sludge into the pump container. (Pre-lubricating the pump and the mortar hoses)
- Fill the mixing container (1) with material. (sequence: water, binding agent and then sand)
- Switch on the mixer with the lever (2).
- Mixing time depends on material.



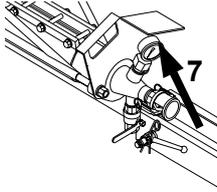
- Switch on the pump using the lever (1).
- Open the mixing container (2).
- The material flows into the pump container.
- Close the mixing container (2).

### WARNING!



The protective grille must not be opened during operation or while preparing the machine. The protective grille is fitted with a safety switch to protect the operator. This switches the machine off when the grille is opened.

## Interruption of work



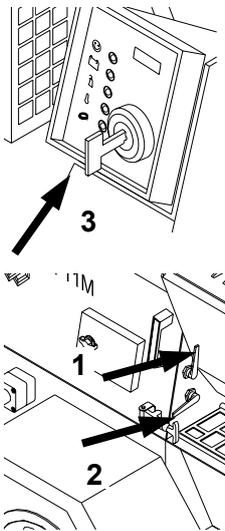
It is recommended to clean the mixer, pump, mortar pressure gauge, hose and spray gun prior to longer interruptions.  
Mix the material for a slightly longer period for interruptions of up to 10 minutes.



### **WARNING!**

The machine must be switched off before being dismantled. Under all circumstances check that pump and hoses are depressurised (observe mortar pressure gauge display (7)).

## Measures to take before work is interrupted



Run the mixing container and the pump until they are empty and then switch off the mixer and pump at levers (1) and (2) and then switch off the motor (3).

Open the tap on the spraying gun.

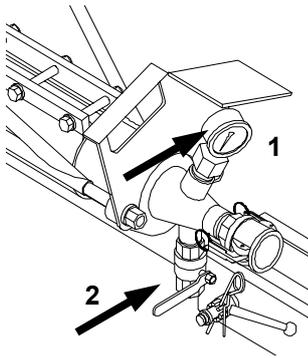
### **WARNING!**

Check if the mortar hose is depressurised. It can be disconnected if this is the case. Use the Geka coupling to connect the hoses to the water system and flush with a water-soaked sponge ball. Repeat this procedure at least twice. Use a water jet to clean the spraying gun and mortar pressure gauge.

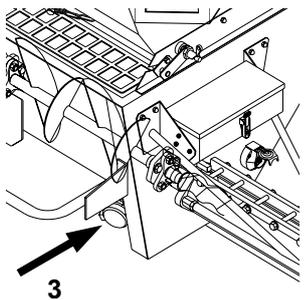
## Hatz diesel motor fault

See Hatz Diesel operating manual, page 30, section 6, Fault – Cause – Remedy

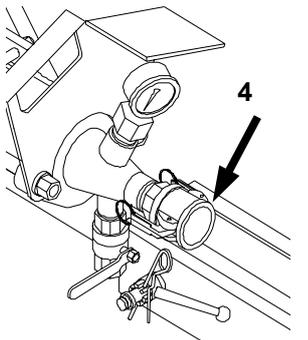
## Cleaning the machine when work has finished



- Empty the mixing container.
- Pump out the mortar.
- Switch off the motor.
- When no pressure is present in the mortar hose, open the tap (2).
- Open the hose coupling.



- Clean the mixer and pump with a water hose.
- Drain the water (3) and close the cover.
- Fill with clean water and switch on the machine and clean the pump unit.



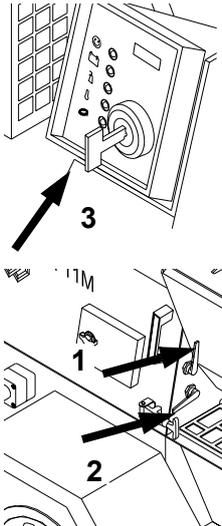
- Soak a sponge ball with water and insert it in the pressure flange (4).
- Connect the material hose.
- Clean the material hose with water, twice if necessary.
- Disconnect the spraying gun and clean with water.

## Clearing hose blockages



### WARNING!

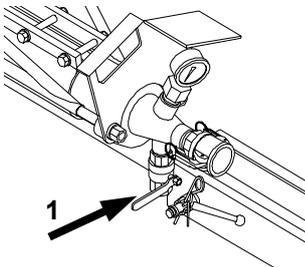
In accordance with the safety regulations of the Builder's Guild, all personnel clearing hose blocks should wear safety goggles and should position themselves in such a way as to avoid injury through discharged mortar. No other persons should be present in the danger zone.



Switch off the mixer and pump at levers (1) and (2) and then switch off the motor (3).

### WARNING!

Check if the mortar hose is depressurised. It can be disconnected if this is the case. Use the Geka coupling to connect the hoses to the water system and flush with a water-soaked sponge ball. Repeat this procedure at least twice. Use a water jet to clean the spraying gun and mortar pressure gauge.



Open the tap.



### WARNING!

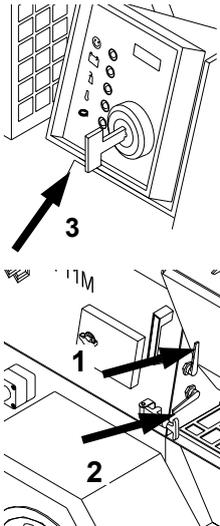
Check that all hoses are depressurised before opening the couplings (observe mortar pressure gauge display).



### WARNING!

In the event of over-pressure and blockages, the rotor and stator wear heavily. For this reason it is important to detect this as early as possible and to switch the pump off immediately.

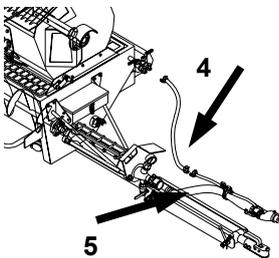
## Transport



Switch off the mixer and pump at levers (1) and (2) and then switch off the motor (3).

### **WARNING!**

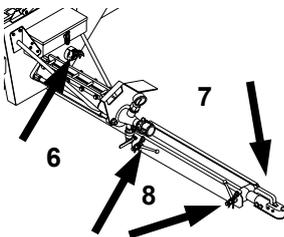
Check if the mortar hose is depressurised. It can be disconnected if this is the case. Use the Geka coupling to connect the hoses to the water system and flush with a water-soaked sponge ball. Repeat this procedure at least twice. Use a water jet to clean the spraying gun and mortar pressure gauge.



Remove spraying gun and air hose (4).  
Disconnect mortar hoses (5).

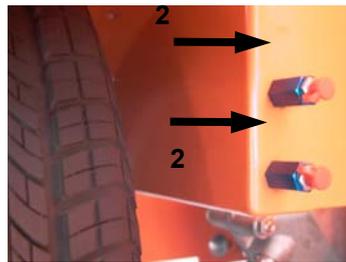
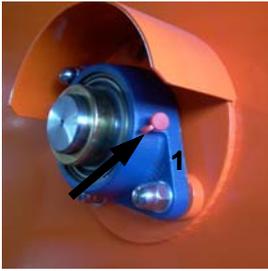
### **WARNING!**

Check that all hoses are depressurised before opening the couplings (observe mortar pressure gauge display).

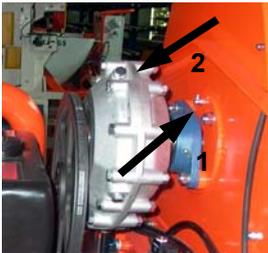


Attach the machine to the vehicle (7).  
Set the position of the drawbar (8).  
Connect the power cable (6).

### Maintenance



Grease the bearings (1) every 10 operating hours.  
Grease the bearings of the pump shaft (2) every 10 operating hours.



Grease the bearings (1) every 10 operating hours.  
Check the gear oil level (2) every 10 operating hours.



Check the compressor oil level (3) every 10 operating hours.



Check the V-belt tension.

### Diesel motor maintenance

See Hatz Diesel operating manual, page 20, section 5 Maintenance

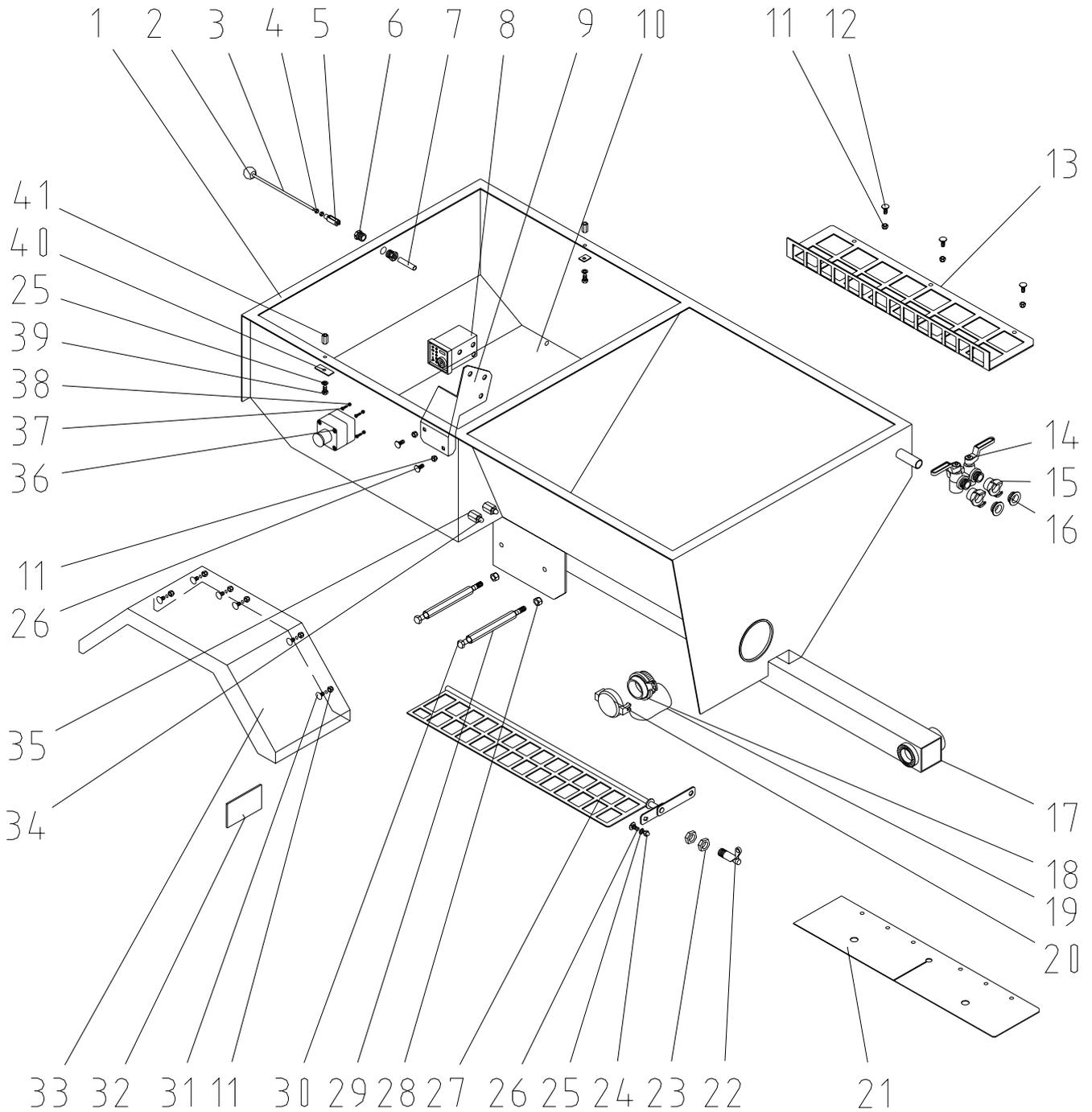


## Check List

How can problems with the PFT DM 11 M be avoided or quickly rectified?

Problem	Possible cause	Remedy
Blockages in the mortar hose	Inadequate lubrication of the mortar hoses, mortar is difficult to pump, leaking hose connections	Insert a water hose in the mortar hose, turn on the water and clean it by moving the hose backwards and forwards until the mortar hose is unblocked
No mortar in the spraying gun even though the pump is running	Mortar hose blocked, inadequate lubrication  Pump worn	Switch off the pump Reduce the pressure in the pump by opening the tap below the pressure gauge <b>Caution!</b> Turn your face away and wear safety goggles Change the pump
Motor does not start No mortar in the mortar pump even though the pump is switched on	Battery empty Mortar is difficult to pump or badly mixed	Charge the battery Switch off the pump Disconnect mortar hose <b>Caution!</b> Turn your face away and wear safety goggles

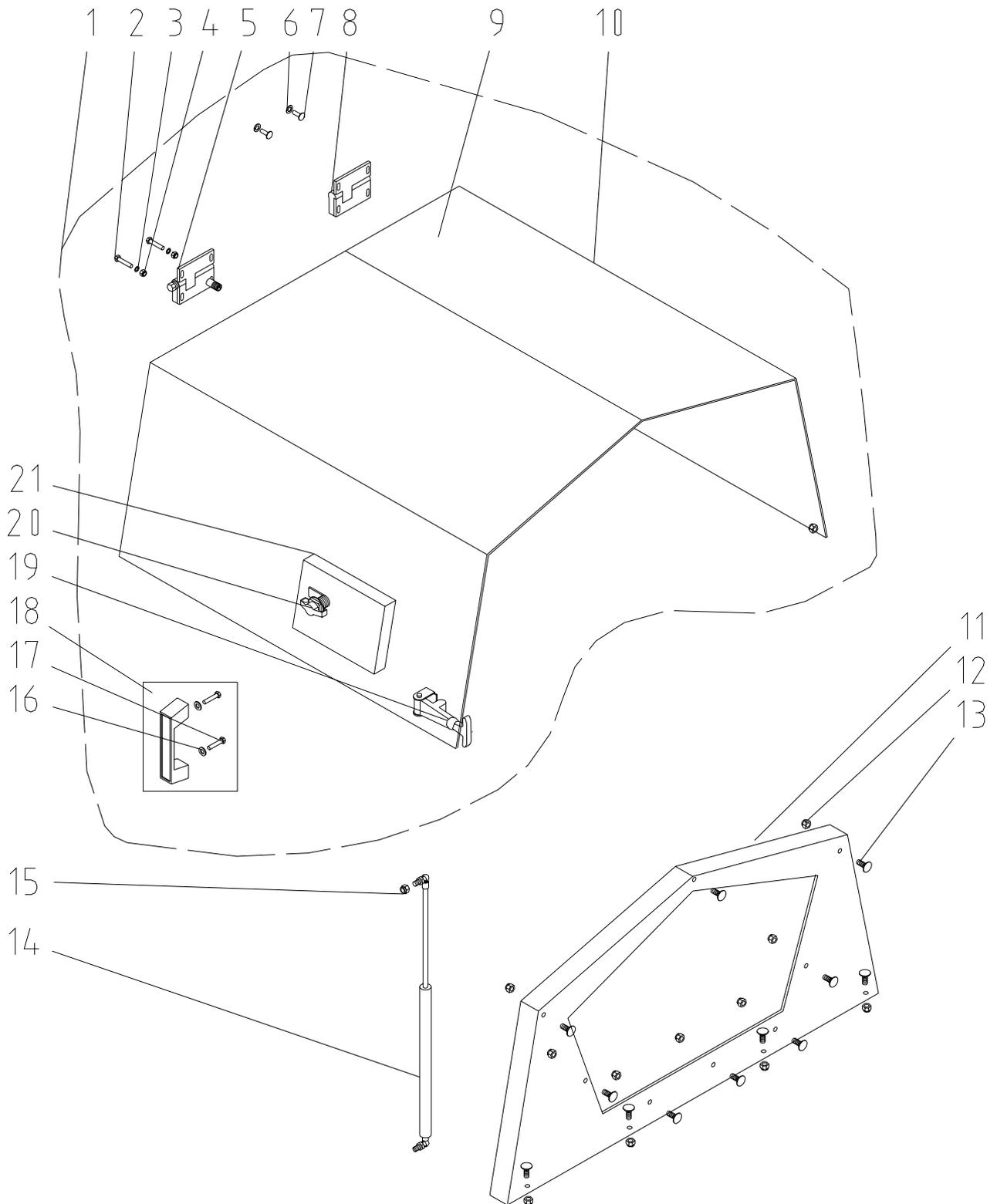
Frame drawing



## Frame replacement parts list

1	1	00 06 43 00	Frame with material hopper DM 11 RAL2004
2	1	00 06 59 60	Knob, shape C, M6 DIN 319
3	1	00 06 59 49	Threaded rod M6 x 250 zinc-pl.
4	2	20 20 65 00	Hex nut M6 DIN 934 zinc-pl.
5	1	00 06 58 63	Fork head 6 x 24 DIN 71752
6	2	00 06 58 90	Reduction nipple 1/2" AG 1/4" IG MS
7	1	00 04 77 19	Hose section 9 mm x 140 mm
8			Control unit
9	1	00 06 57 90	Control box for DM 11 M RAL2004
10	1	00 06 59 47	Plate DM 11 RAL2004
11	18	20 20 72 00	Nut M8 DIN 985 zinc-pl.
12	5	20 20 78 11	Flat screw M8 x 12 DIN 85 zinc-pl.
13	1	00 06 15 59	Protection grille, rear, DM 11 M RAL2004
14	1	00 06 56 43	Double tap 3/4" IG x 2x3/4" AG DIN3487
15	1	20 20 12 00	Geka coupling 3/4" IG
16	1	20 20 17 00	Geka coupling gasket
17	1	00 06 56 80	Drawbar profile DM 11 1420lg. type 75 VU
18	1	00 06 56 92	V coupling VK 50
19	1	00 06 56 94	Chain 2" light model DM 11 200lg.
20	1	00 06 56 93	Cap MB 50 AL
21	1	00 06 96 99	Protection grille rubber cover, front, DM 11 M (accessory)
22	1	00 05 15 14	Rotary bolt VA SP-1,5
23	2	00 05 70 44	Hex nut M20 x 1.5 DIN 936 zinc-pl.
24	1	20 20 66 03	Nut M8 DIN 986 zinc-pl.
25	3	20 20 93 13	U disk B 8.4 DIN 125 zinc-pl.
26	2	20 20 63 22	Flat screw M8 x 20 DIN 603 zinc-pl.
27	1	00 06 15 72	Protection grille, front, DM 11 M RAL2004
28	2	20 20 89 00	Nut M12 DIN 985 zinc-plated
29	2	00 06 62 84	Steel pipe 1/2" 165lg. zinc-pl.
30	2	00 06 62 67	Hex screw M12 x 280 DIN 933 zinc-pl.
31	12	20 20 63 14	Flat screw M8 x 16 DIN 603 zinc-pl.
32	2	00 06 52 33	Rear reflector, yellow 94 x 44
33	2	00 06 48 54	Mudguard DM 11 M RAL2004
34	2	00 07 20 18	Lubricating nipple, straight 1/4"
35	2	00 07 20 05	Socket QM – 1/4" – 1/4" AL, blue anodised
36	1	00 05 59 72	Emergency off button M22 complete CMP 30 II
37	4	20 20 64 12	Cylinder head screw M4 x 16 DIN 84
38	4	20 20 62 03	Nut M4 DIN 985 zinc-plated
39	2	20 20 87 01	Hex screw M8 x 16 DIN 933 zinc-pl.
40	2	00 06 64 30	Reinforcement plate insulation 50x20x3 DM 11 RAL2004
41	2	00 02 19 09	Hex elongated nut M8 x 24 DIN 6334

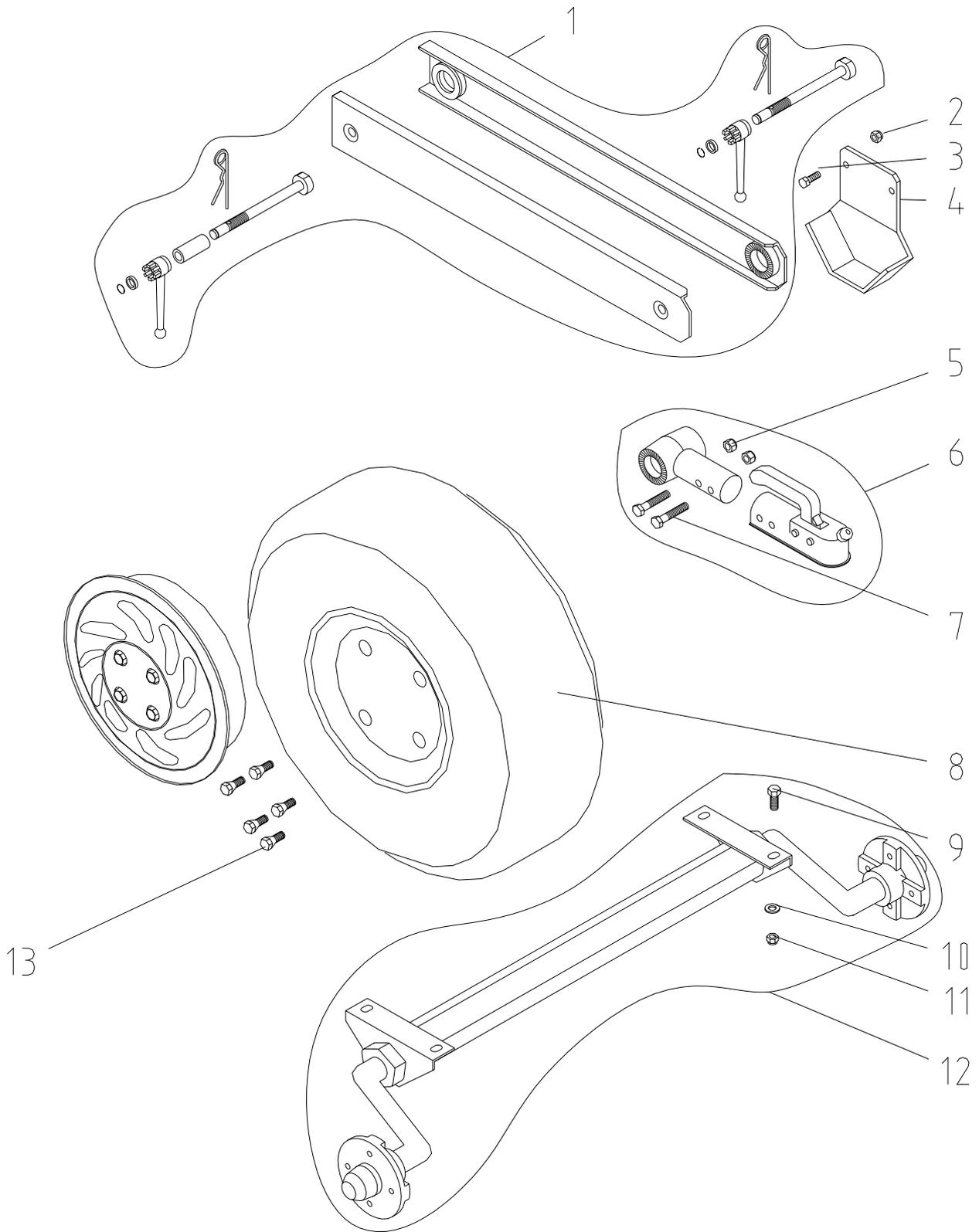
Cover drawing



## Cover replacement parts list

1	1	00 06 62 29	Motor cover RAL9006 DM 11 cpl.
2	4	00 02 31 96	Hex screw M6 x 35 DIN 933 zinc-pl. ~
3	4	20 20 93 00	U disc B 6.4 DIN 125 zinc-plated
4	4	20 20 62 00	Nut M6 DIN 985 zinc-pl.
5	1	00 06 46 32	Hinge safety switch 1O/1S, 1 closing unit, 1 opening unit
6	4	20 20 94 00	Spring washer B 6 DIN 127 zinc-pl.
7	4	20 20 63 04	Flat screw M6 x 16 DIN 603 zinc-pl.
8	1	00 06 46 35	Hinge SHS-ZO
9	1	00 06 62 26	Motor cover, back, RAL9006 DM 11
10	1	00 06 62 14	Motor cover, top, RAL9006 DM 11
11	1	00 06 51 34	Support plate for motor cover RAL2004
12	23	20 20 72 00	Nut M8 DIN 985 zinc-pl.
13	23	20 20 63 22	Flat screw M8 x 20 DIN 603 zinc-pl.
14	1	20 57 65 01	Gas pressure damper 300 N, L=728 mm
15	1	20 20 72 00	Nut M8 DIN 985 zinc-pl.
16	1	20 20 93 12	Washer A 6.4 DIN 6798 zinc-plated
17	1	00 02 32 31	Hex screw M6 x 30 DIN 933 zinc-pl.
18	1	00 02 02 86	Plastic handle B 8-45
19	1	20 17 16 21	Mudguard holder
20	1	00 02 18 76	Air tap stop seal
21	1	00 06 62 19	Motor cover door starter RAL9006 DM 11

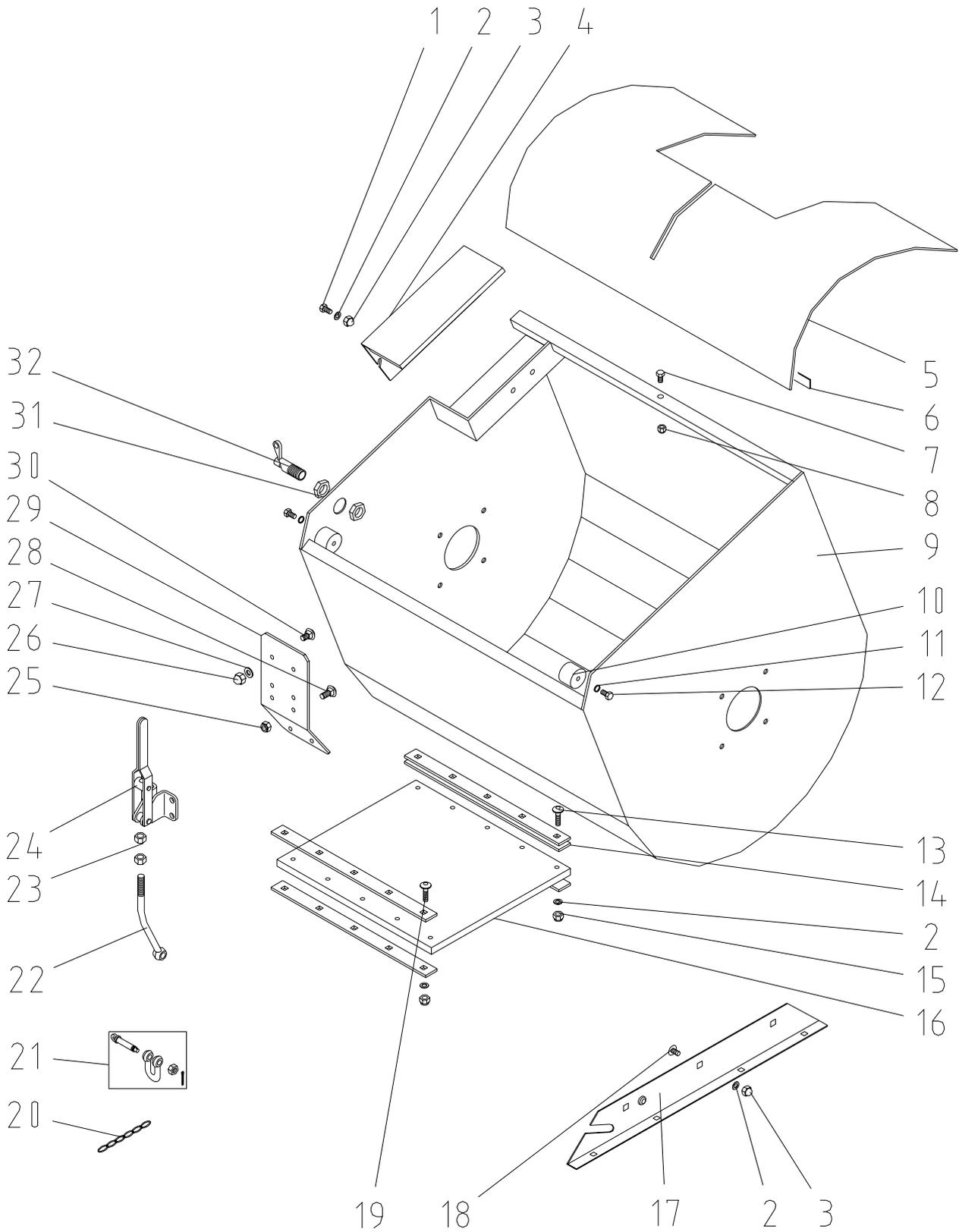
### Axle and drawbar drawing



## Axle and drawbar replacement parts list

1	1	00 06 56 81	Drawbar spacer DM 11 750lg, type 75VU
2	2	20 20 72 10	Nut M10 DIN 985 zinc-plated
3	2	20 20 99 31	Hex screw M10 x 25 DIN 933 zinc-pl.
4	1	00 06 52 16	Support foot for drawbar DM 11 M RAL2004
5	2	20 20 89 00	Nut M12 DIN 985 zinc-plated
6	1	00 06 56 90	Ball head coupling DM 11 cpl.
7	2	20 20 78 13	Hex screw M12 x 70 DIN 933 zinc-pl. ~
8	2	20 57 15 02	Wheel 175/70 R13 cpl. with rim
9	4	20 20 99 62	Hex screw M12 x 35 DIN 933 zinc-pl.
10	4	20 20 90 00	U disc B 13 DIN 125 zinc-plated
11	4	20 20 89 00	Nut M12 DIN 985 zinc-pl.
12	1	00 06 56 51	Axle DM 11, 750 kg (ALKO)
13	8	00 00 18 79	Wheel bolt M12 x 1.5 x 24

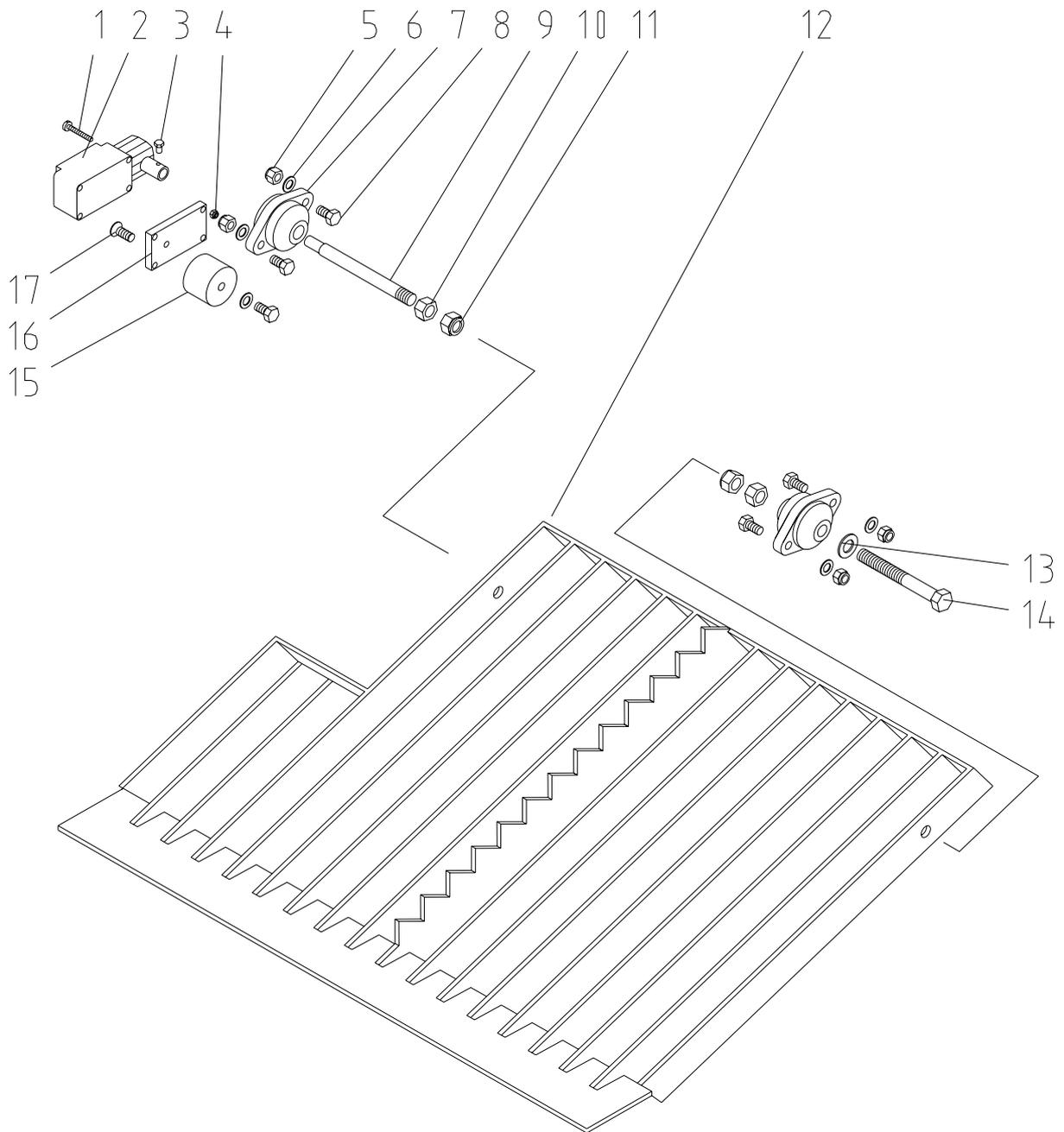
### Material hopper drawing



## Material hopper replacement parts list

1	3	20 20 63 04	Flat screw M6 x 16 DIN 603 zinc-pl.
2	3	20 20 93 00	U disc B 6.4 DIN 125 zinc-plated
3	3	20 20 62 01	Nut M6 DIN 986 zinc-plated
4	1	00 06 37 35	Cover, limit switch, trough mixer RAL2004
5	1	00 06 38 24	Rubber cover for material loading opening trough mixer
6	1	00 06 38 54	Rubber cover, terminal strip, trough mixer RAL2004
7	1	00 02 31 94	Hex screw M8 x 16 DIN 933 plain
8	1	20 20 72 00	Nut M8 DIN 985 zinc-pl.
9	1	00 06 37 53	Material hopper trough mixer RAL2004
10	2	00 06 40 09	Rubber diaphragm D40 x 40, M8 shape C
11	2	20 20 91 00	Spring washer B 8 DIN 127 zinc-plated
12	2	20 20 87 02	Hex screw M8 x 10 DIN 933 zinc-pl.
13	5	00 06 56 45	Flat screw M8 x 35 DIN 603 zinc-pl.
14	5	00 06 38 07	Rubber cover, mortar outlet, trough mixer RAL2004
15	11	20 20 72 00	Nut M8 DIN 985 zinc-plated
16	1	00 06 38 30	Rubber flap for mortar outlet, trough mixer
17	1	00 06 95 62	Support bracket for trough mixer DM 11 RAL2004
18	3	20 20 63 22	Flat screw M8 x 20 DIN 603 zinc-pl.
19	5	20 20 63 24	Flat screw M8 x 30 DIN 603 zinc-pl.
20	1	00 06 40 04	Chain D5 x 35 x 10 zinc-plated DIN763
21	1	00 06 35 99	Very strong shackles 0.4 to, zinc-plated. DIN8210
22	1	00 07 31 98	Screw M12 x 220 DIN 444 zinc-plated
23	2	20 20 69 00	Hex nut M12 DIN 934 zinc-plated
24	1	00 06 36 02	Spanner for mortar outlet, trough mixer
25	2	20 20 72 10	Nut M10 DIN 985 zinc-plated
26	6	00 05 09 70	Nut M10 DIN 986 A2
27	8	20 20 90 10	U disk B 10.5 DIN 125 zinc-pl.
28	4	00 04 10 60	Flat screw M10 x 25 DIN 603 zinc-pl.
29	1	00 06 37 39	Quick connection, reinforcement plate, trough mixer RAL2004
30	4	00 05 80 98	Flat screw M10 x 20 DIN 603 zinc-pl.
31	2	00 05 70 44	Hex nut M20 x 1.5 DIN 936 zinc-plated
32	1	00 05 15 14	Rotary bolt VA SP-1.5

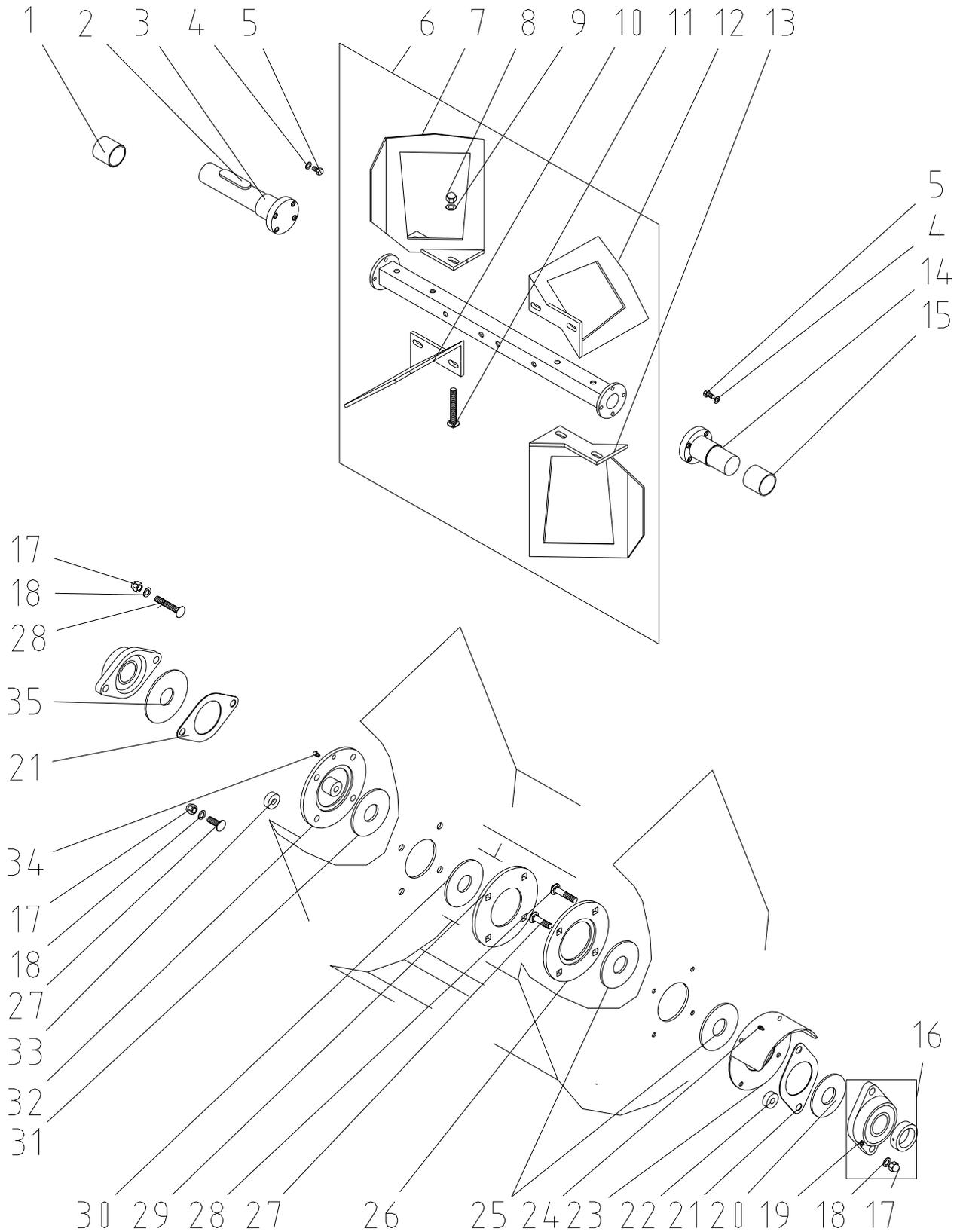
### Protection grille drawing



## Protection grille replacement parts list

1	4		Cylinder head screw M4 x 45 DIN 84
2	1	00 06 46 32	Hinge safety switch 1O/1S, 1 closing unit 1 opening unit
3	1	00 03 90 46	Hex screw M5 x 6 DIN 933 zinc-pl.
4	4	20 20 62 03	Nut M4 DIN 985 zinc-pl.
5	4	20 20 72 00	Nut M8 DIN 985 zinc-pl.
6	4	20 20 93 13	U disk B 8.4 DIN 125 zinc-pl.
7	2	00 06 42 50	SM flange element 47 x 40 x 70
8	5	20 20 61 00	Hex screw M8 x 20 DIN 933 zinc-pl.
9	1	00 06 42 98	Limit switch shaft, trough mixer, zinc-pl.
10	2	20 20 69 00	Hex nut M12 DIN 934 zinc-pl.
11	2	20 20 89 00	Nut M12 DIN 985 zinc-pl.
12	1	00 06 36 80	Protection grille, trough mixer RAL2004
13	1	20 20 90 00	U disk B 13 DIN 125 zinc-pl.
14	1	20 20 70 00	Hex screw M12 x 100 DIN 933 zinc-pl.
15	1	20 44 48 10	Rubber diaphragm D40 x 30, M8 x 10 shape C
16	1	00 06 37 37	Base plate limit switch, trough mixer RAL2004
17	1	20 20 99 03	Screw M8 x 16 DIN 963 zinc-pl.

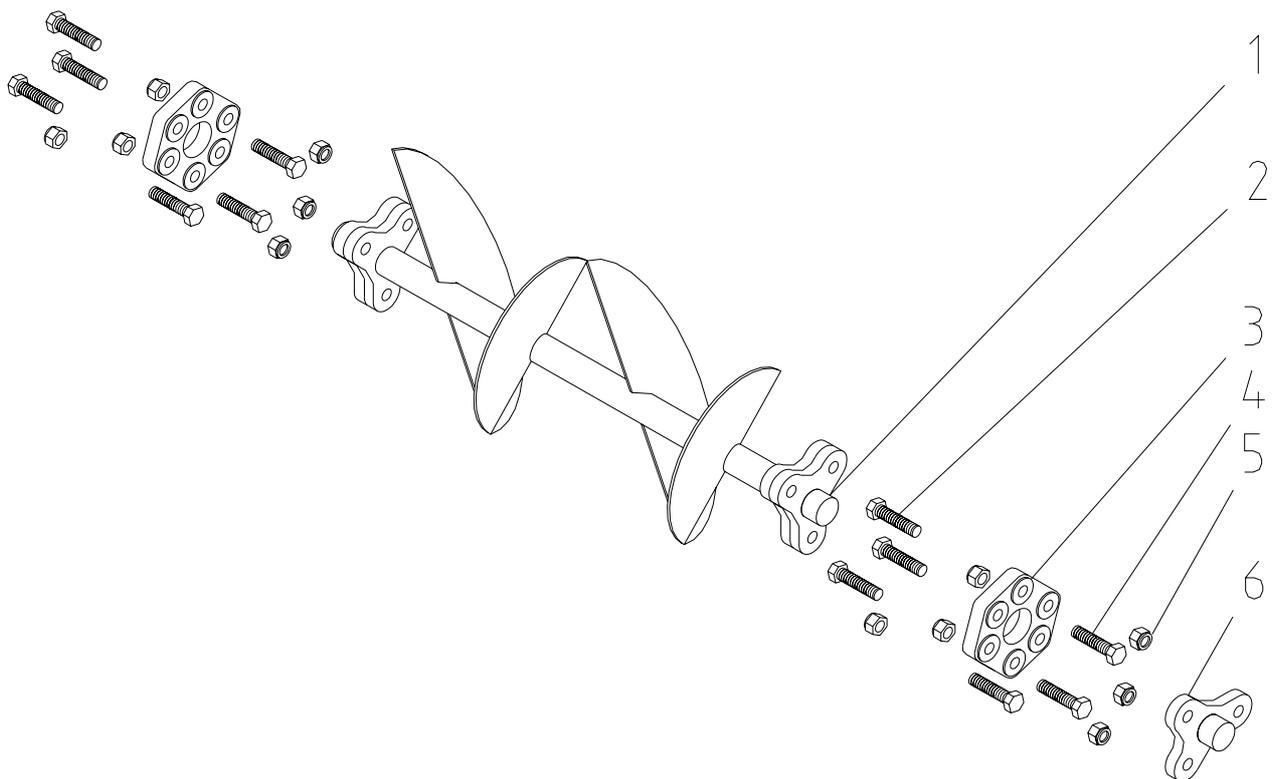
Mixing shaft and seal drawing



## Mixing shaft and seal replacement parts list

1	1	00 06 62 30	Wear socket, drive bearing shaft, trough mixer
2	1	00 02 34 60	Spring A14 x 9 x 90 DIN 6885 C45
3	1	00 06 38 82	Drive shaft, trough mixer
4	2	20 20 91 00	Spring washer B 8 DIN 127 zinc-pl.
5	2	20 20 61 00	Hex screw M8 x 20 DIN 933 zinc-pl.
6	1	00 06 35 83	Mixing shaft, trough mixer RAL2004
7	1	00 06 15 79	Mixing paddle, drive side RAL2004
8	1	00 06 42 55	Nut M12 DIN 986 zinc-pl.
9	1	20 20 90 00	U disk B 13 DIN 125 zinc-pl.
10	1	00 07 11 95	Mixing paddle, centre, right-conveying trough mixer RAL2004
11	8	00 02 32 26	Hex screw M12 x 65 DIN 931 zinc-pl.
12	1	00 06 15 92	Mixing paddle, centre, left-conveying trough mixer RAL2004
13	1	00 06 15 56	Mixing paddle, bearing side, trough mixer RAL2004
14	1	00 06 38 80	Bearing shaft, trough mixer
15	1	00 06 62 30	Wear socket, drive bearing shaft, trough mixer
16	2	00 06 40 05	Flange bearing FYTB 45 FM
17	3	20 20 89 00	Nut M12 DIN 986 zinc-pl.
18	3	20 20 90 00	U disk B 13 DIN 125 zinc-pl.
19	1	00 04 23 78	Lubricating nipple M10x1 straight
20	2	00 06 38 25	Rubber packing D99xd40x4 trough mixer
21	2	00 06 39 71	Adapter plate, Y-flange bearing, trough mixer RAL2004
22	4	00 06 39 75	Spacer D35 x d13 x 12 RAL2004
23	1	00 06 39 52	Bearing flange with cover trough mixer RAL2004
24	1	00 04 23 78	Lubricating nipple M10x1 straight
25	1	20 54 57 02	Sealing ring, gearbox seal D107x40x5
26	1	00 06 39 70	Bearing flange, internal, trough mixer RAL2004
27	5	00 04 51 37	Flat screw M12 x 30 DIN 603 zinc-pl.
28	5	00 06 42 54	Flat screw M12 x 60 DIN 603 zinc-pl.
29	1	00 06 39 70	Bearing flange, internal, trough mixer RAL2004
30	1	20 54 57 02	Sealing ring, gearbox seal D107x40x5
31	1	20 54 57 02	Sealing ring, gearbox seal D107x40x5
32	1	00 06 40 00	Bearing flange, trough mixer RAL2004
33	1	00 06 39 75	Spacer D35 x d13 x 12 RAL2004
34	1	00 03 55 79	Lubricating nipple M10x1 (90 degree)
35	1	00 06 38 25	Rubber packing D99xd40x4 trough mixer

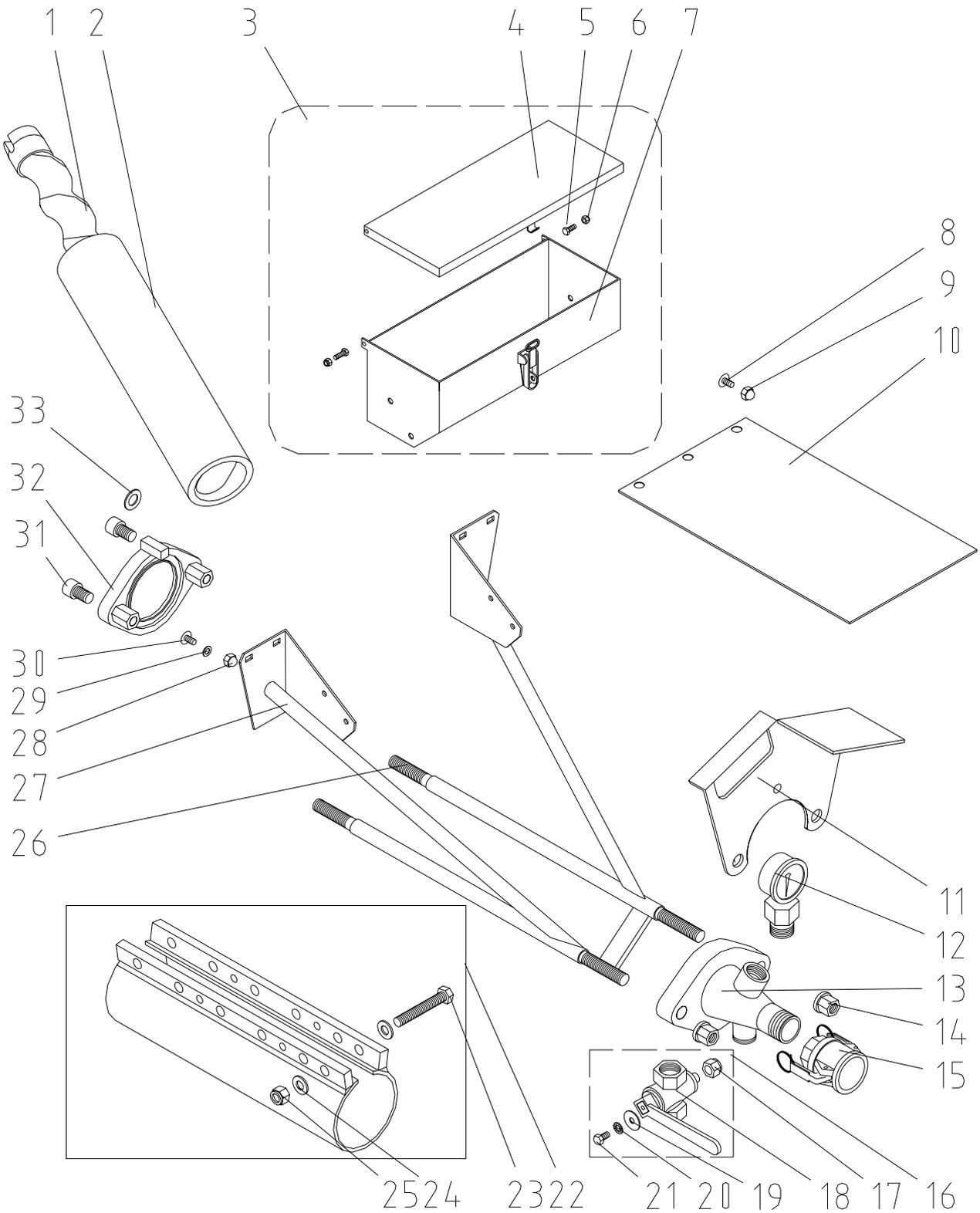
# Pump shaft drawing



## Pump shaft replacement parts list

1	1	00 06 16 81	Pump shaft DM 11 M/P RAL2004
2	6	20 20 59 00	Hex screw M12 x 50 DIN 933 zinc-pl.
3	2	00 00 20 64	Flexible disk type GN 161s
4	6	20 20 87 03	Hex screw M12 x 45 DIN 933 zinc-pl.
5	12	20 20 89 00	Nut M12 DIN 985 zinc-pl.
6	1	00 06 16 90	Coupling pump shaft DM 11 RAL2004

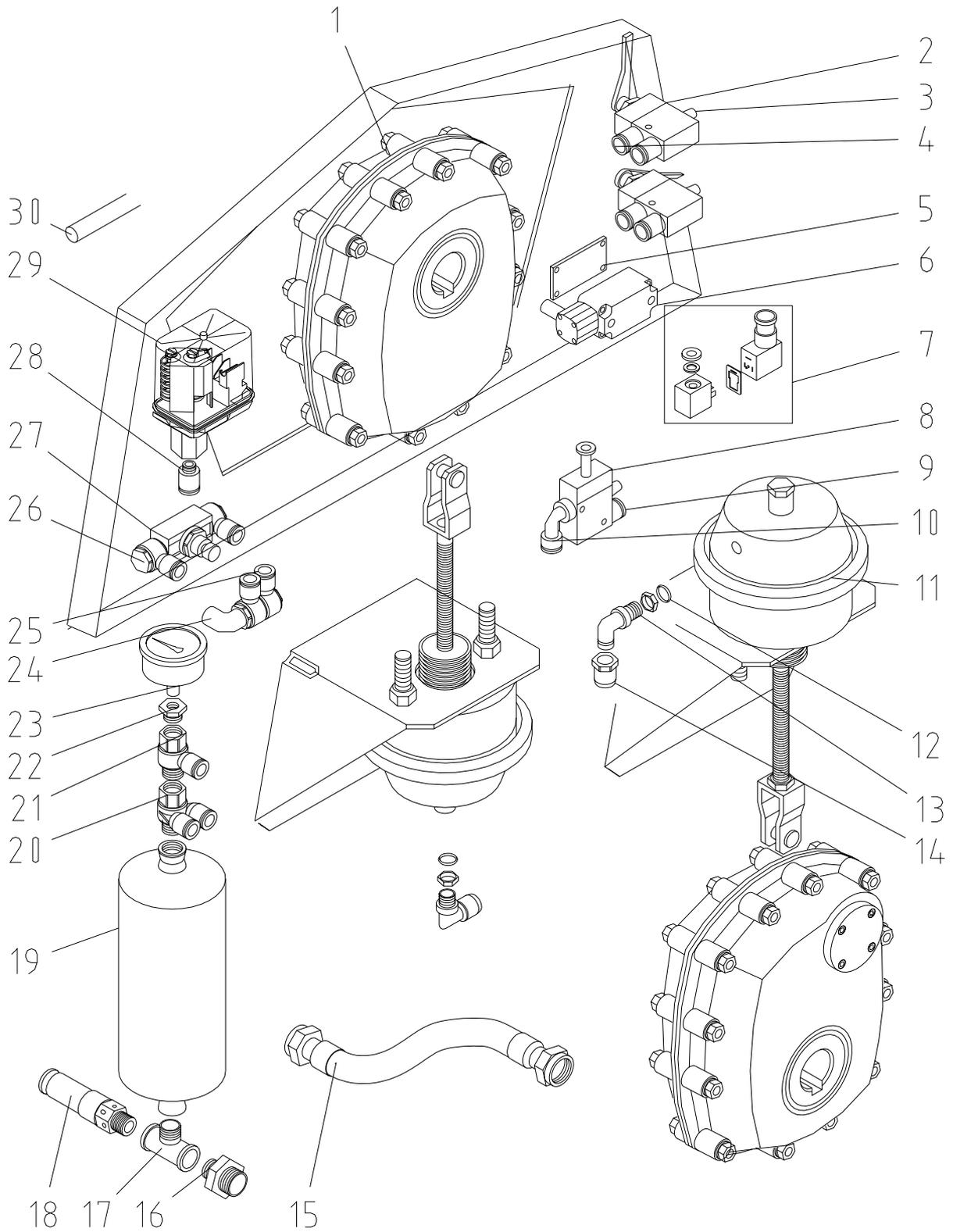
Pump 2L6 yellow drawing



## Pump 2L6 yellow replacement parts list

1	1	20 11 44 20	Rotor 2L6 (W7), vortex
2	1	20 11 56 01	Stator 2L6 yellow
3	1	20 10 80 10	Tool kit ZP3V / MONOPJET complete
4	1	20 10 80 27	Tool kit cover ZP3V / MONOJET
5	2	20 20 71 01	Hex screw M6 x 16 DIN 933 zinc-pl.
6	2	20 20 62 00	Nut M6 DIN 985 zinc-pl.
7	1	20 10 80 26	Tool kit housing ZP3V / MONOJET
8	3	20 20 63 04	Flat screw M6 x 16 DIN 603 zinc-pl.
9	3	20 20 62 01	Nut M6 DIN 986 zinc-plated
10	1	00 07 19 92	Pump unit dust cover DM 11
11	1	00 04 49 82	Mortar pressure gauge cover with handle RAL2004
12	1	00 03 61 85	Gauge 0-60 bar with pressure mediator 1"
13	1	00 06 48 75	Pressure flange DM 11 M RAL2004
14	2	20 20 99 21	Nut M16 DIN 6331 zinc-plated
15	1	20 20 07 90	Coupling 35M part 1 1/4" IG with gasket
16	1	00 01 98 96	Plug valve 1" IG with hand lever cpl.
17	1	00 02 33 50	Nut M14 DIN 985 zinc-pl.
18	1	00 03 77 76	Plug valve 1" IG with hand lever
19	1	20 20 93 20	Washer 8.4 x 25 x 1.5 zinc-pl.
20	1	20 20 87 01	Hex screw M8 x 16 DIN 933 zinc-pl.
21	1	00 01 98 96	Plug valve 1" IG with hand lever cpl.
22	1	20 11 76 00	Clamp 2L6
23	5	00 03 58 04	Hex screw M14 x 90 DIN 931
24	10	20 20 90 11	U disk B 15 DIN 125 zinc-pl.
25	5	00 02 33 50	Nut M14 DIN 985 zinc-pl.
26	1	00 06 59 20	Tie rods M16 x 580 mm zinc-plated both sides 50 mm M16
27	1	00 06 50 77	Bracket pump/tool DM 11 M RAL2004
28	6	20 20 66 03	Nut M8 DIN 986 zinc-pl.
29	6	20 20 93 13	U disc B 8.4 DIN 125 zinc-plated
30	6	20 20 63 14	Flat screw M8 x 16 DIN 603 zinc-pl.
31	2		Hex socket M16 x 25 DIN 912 zinc-pl.
32	1	00 06 52 01	Suction flange L - pump for O-ring RAL2004
33	2		Gasket 15 x 24 x 2

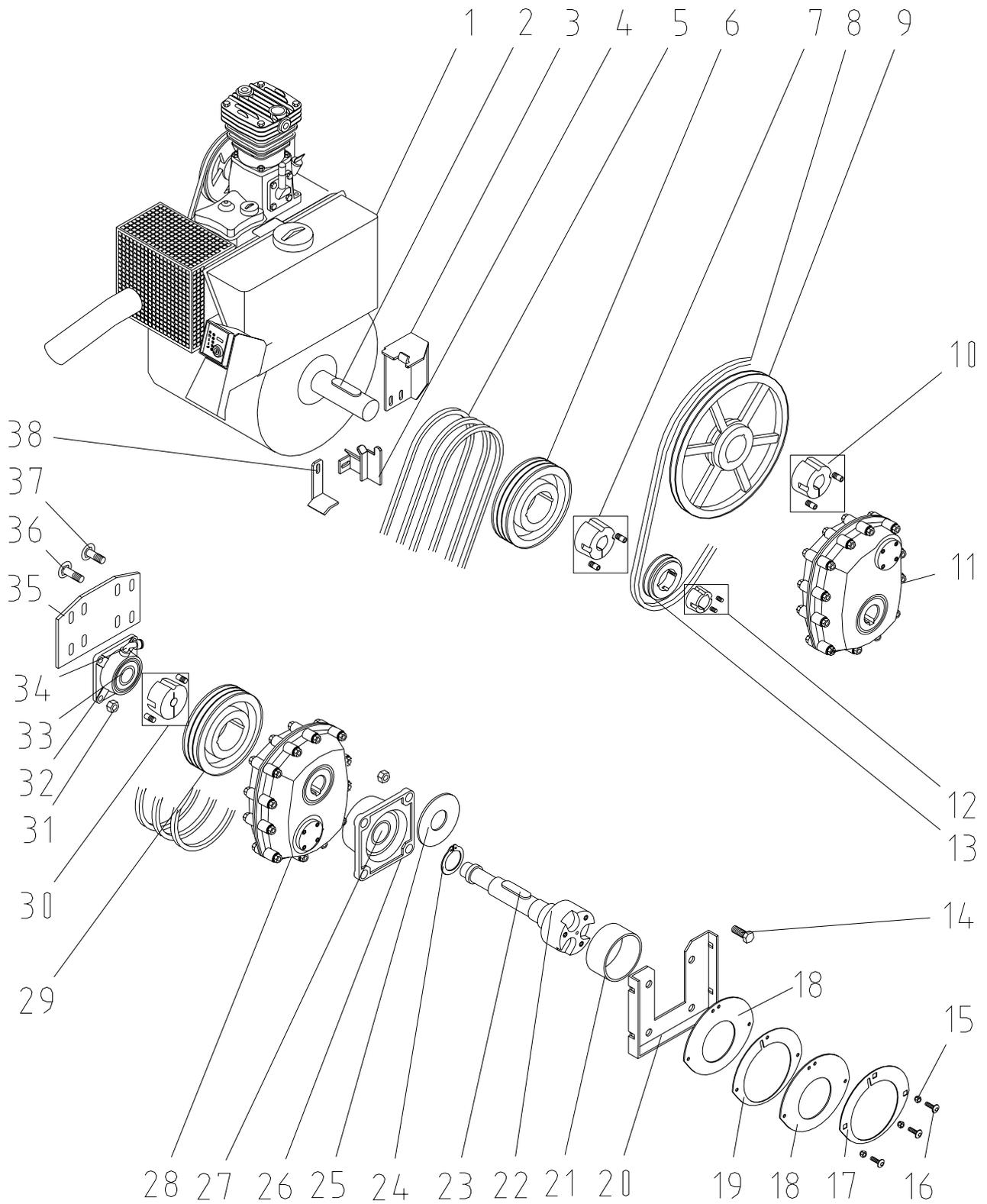
Air control drawing



## Air control replacement parts list

1	2	00 06 56 83	Plug-on gearbox DM 11
2	2	00 06 58 73	Hand lever valve H-3-1/4-B
3	3	20 56 74 05	Sound insulation sintered bronze 1/4" AG
4	6	00 06 59 01	Screw plug connection QS - 1/4-12
5	1	00 06 59 69	Spacer limit switch DM 11 RAL2004
6	1	00 06 46 32	Hinge safety switch 1O/1S, 1 closing unit, 1 opening unit
7	1	00 06 58 74	Magnetic coil MSFG-12 V
8	1	00 06 58 78	Solenoid valve MOFH-3-1/4
9	1	00 06 59 01	Screw plug connection QS - 1/4-12
10	4	00 06 59 02	L-screw plug connection QSL - 1/4-12
11	2	00 06 58 64	Membrane brake cylinder, type BX3416
12	2	00 06 59 22	Seal ring ALU 26x32x2 shape A DIN 7603
13	2	00 06 59 25	Plug connection 90° with quick connection 12x1.5
14	2	00 06 59 21	Quick connection support P5 M16x1.5
15	1	00 06 59 08	Metal steam hose DN20-R3/4"x1000 lg.
16	1	20 20 32 82	Double nipple reducer 3/4"-1/2" AG ver No.245
17	1	20 20 42 00	T-piece 1/2" IG 1/2" AG 1/2" IG no.133 zinc-plated
18	1	20 56 49 00	Safety valve R 1/2" 2.2 bar
19	1	00 06 58 66	Compressed air tank DM-11
20	1	00 06 58 71	Y-screw plug connection QSYTF-G1/2-12
21	1	00 06 59 00	T-screw plug connection QSTF - G 1/2-12
22	1	00 06 58 90	Reduction nipple 1/2" AG 1/4" IG MS
23	1	00 04 57 04	Manometer 0-6 bar glycerine-filled 1/4" rear
24	1	00 06 59 03	Curved section 3/8" IG 3/4" IG No. 90 zinc-pl.
25	1	00 06 58 70	Distributor QSLV 2-G 3/8-12
26	2	00 06 58 72	L-screw plug connection QSLV-G3/8-12
27	1	00 06 58 97	Pressure regulating valve FDV 300 KPZ
28	1	00 06 58 98	Screw plug connection QS - 3/8-12
29	1	20 44 76 01	Safety switch type FF4-4 0.22-4 bar (P)
30	1	00 06 60 03	Polyamide hose, black 12 x 1.5

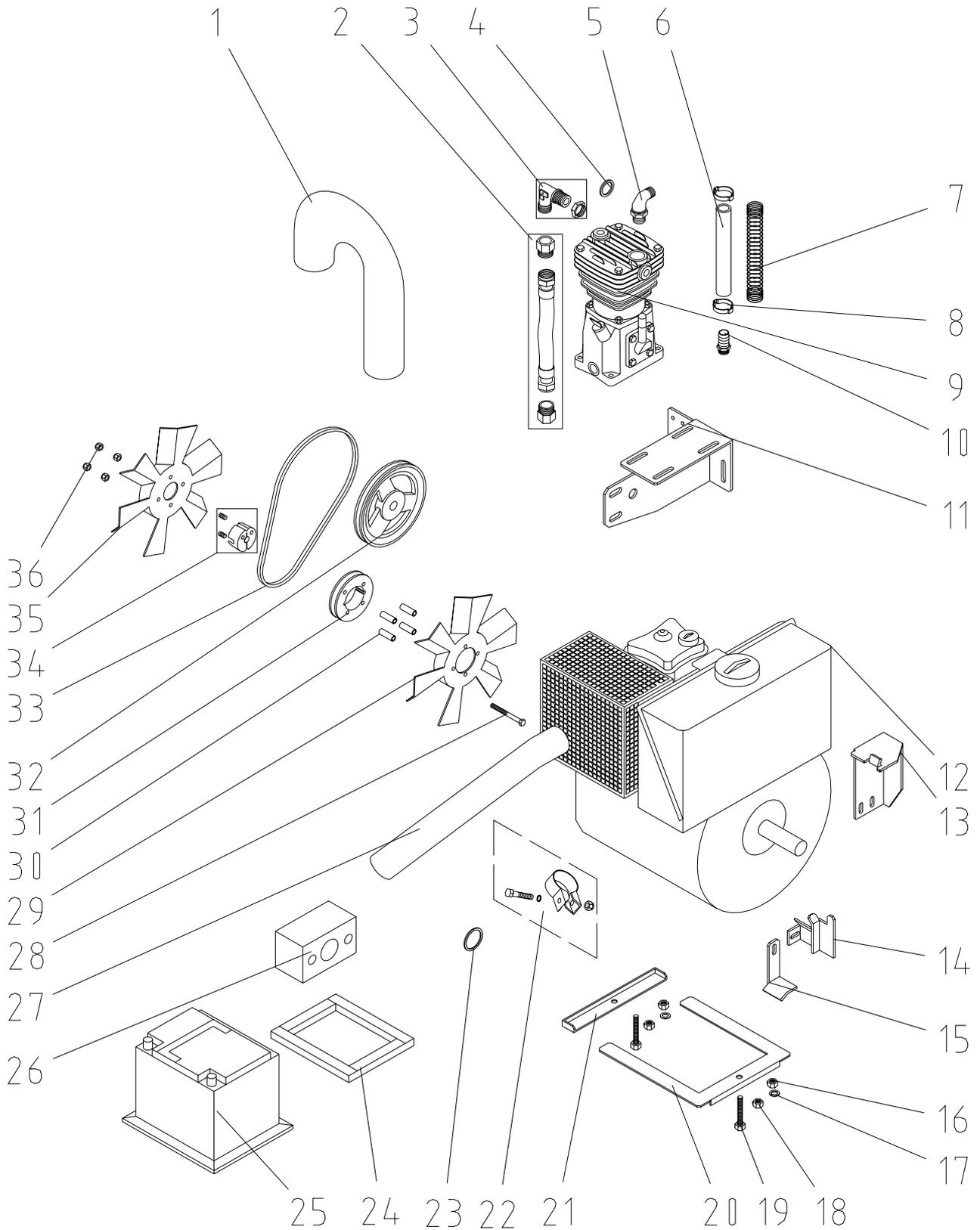
### Gearbox drawing



## Gearbox replacement parts list

1	1	00 06 56 95	Diesel motor 9.5 KW DM 11
2	1	00 07 20 04	Spring A10 x 8 x 50 DIN 6885
3	1	00 06 37 97	V-belt guide compressor side DM 11 M RAL2004
4	1	00 06 40 20	V-belt guide DM 11 RAL2004
5	3	00 06 58 14	V-belt SPA 1180 LW DIN 7753
6	1	00 06 58 18	V-belt disc 170-3 SPA 2517 DIN 2211
7	1	00 06 58 42	Taper locking bush, type 2517D=35 DIN 6885
8	1	00 07 25 26	V-belt X 17-1360 Lp BX DIN2215
9	1	00 07 25 25	V-belt disc 315-1 SPB-17-2012 DIN2211
10	1	00 06 58 46	Taper locking bush, type 2012 D=22 DIN 6885
11	1	00 06 56 83	Plug-on gearbox DM 11
12	1	00 06 58 49	Taper locking bush, type 1610 D=35 DIN 6885
13	1	00 07 25 24	V-belt disc 100-1 SPB/17 1610 DIN 2211
14	4	20 20 76 00	Hex screw M16 x 40 DIN 933 zinc-pl.
15	3	20 20 72 00	Nut M8 DIN 985 zinc-pl.
16	3	20 20 63 24	Flat screw M8 x 30 DIN 603 zinc-pl.
17	1	00 06 58 94	Clamp ring, pump shaft DM 11 RAL2004
18	2	00 06 58 95	Rubber packing, pump shaft DM 11
19	1	00 06 58 91	Spacer, pump shaft DM 11 RAL2004
20	1	00 06 37 68	Bearing plate, internal, pump drive DM 11 RAL2004
21	1	00 06 59 10	Wear socket, pump drive shaft DM 11
22	1	00 06 59 09	Pump drive shaft DM 11
23	1	00 07 20 19	Spring A14 x 9 x 100 DIN 6885
24	1	00 07 34 45	Security ring D 42 x 1.75 DIN 471
25	1	00 07 20 25	Rubber packing D 162 x 50 x 4
26	1	00 06 58 10	Flange bearing housing FY 512 M
27	1	00 06 58 12	Axial bearing 2RS1 (1726310)
28	1	00 06 56 83	Plug-on gearbox DM 11
29	1	00 06 58 43	V-belt disc 200-3 SPA 2517 DIN 2211
30	1	00 06 58 44	Taper locking bush, type 2517 D=22 DIN 6885
31	8	20 20 99 20	Hex nut M16 DIN 934 zinc-pl.
32	1	00 06 58 11	Flange bearing housing FY 508 M
33	1	00 06 58 13	Axial bearing 2RS1 (1726307)
34	1	00 06 59 02	L-screw plug connection QS - 1/4-12
35	1	00 06 37 69	Bearing plate, external, pump drive DM 11 RAL2004
36	4	00 07 20 94	Flat screw M12 x 40 x DIN 603 zinc-pl.
37	4	00 04 51 37	Flat screw M12 x 30 x DIN 603 zinc-pl.
38	1	00 06 42 58	V-belt guide, bottom, pump drive DM 11 M RAL2004

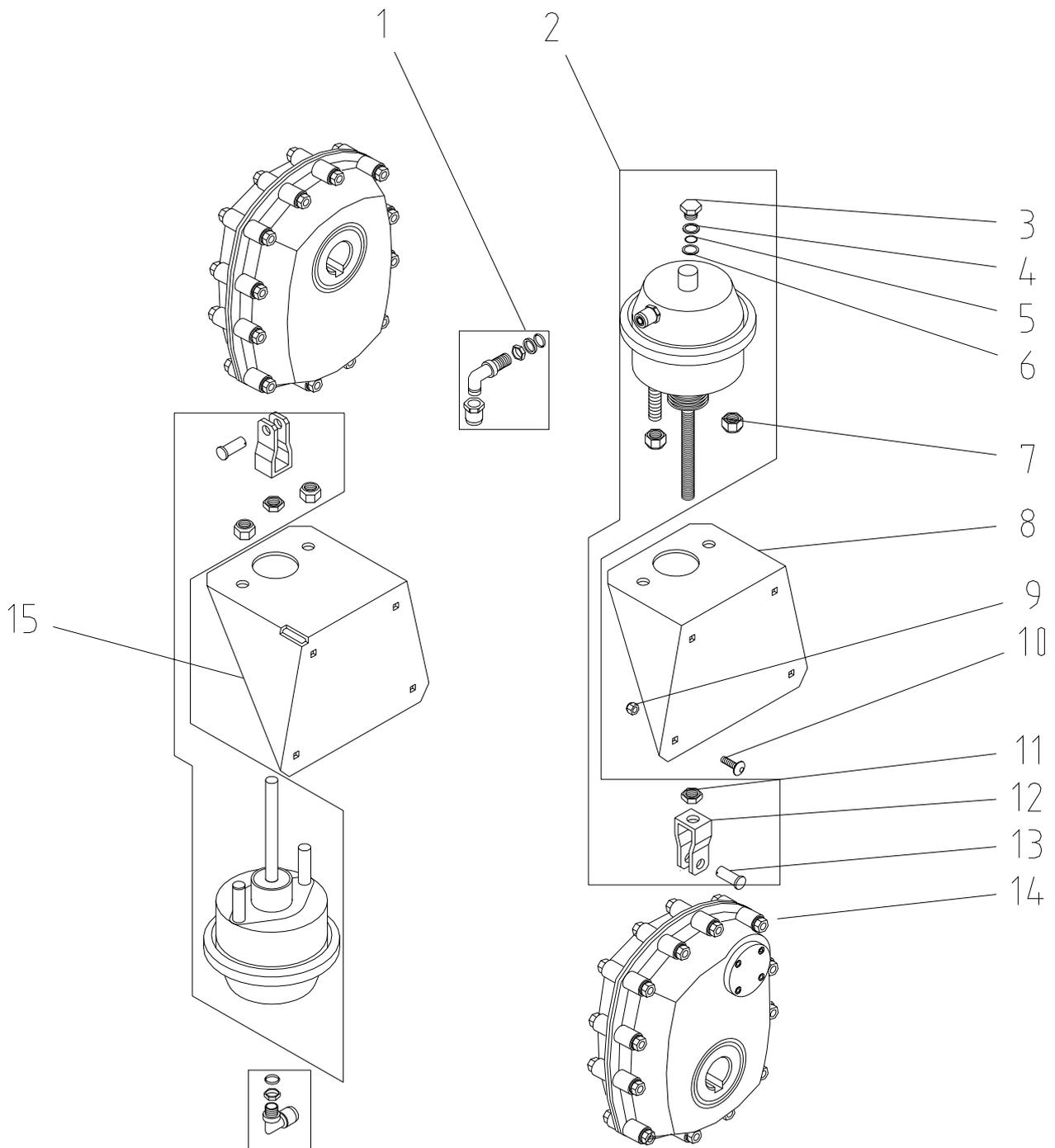
Compressor safety valve and fan drawing



## Compressor safety valve and fan replacement parts list

1	1	00 06 56 26	Air suction pipe DM 11 M RAL2004
2	1	00 06 59 08	Metal steam hose DN20-R3/4"x1000 lg.
3	1	00 06 59 24	Angular screwed joint M26x1.5 / M26x1.5
4	2	00 06 59 22	Sealing ring ALU 26x32x2 shape A DIN 7603
5	1	00 06 59 23	Angular screwed joint M22x1.5 /M26x1.5
6	1	00 07 20 40	Pressure hose 3/4" 320 lg.
7	1	20 20 30 05	Floating trowel mounting device for 3/4" water/air hose 580 mm
8	2	20 20 29 00	Hose clip 28-31 (pack of 10)
9	1	00 06 58 61	Compressor LP1969 440 l/mi 8 bar DM-11
10	1	20 19 04 42	Hose screw joint 1/2" AG socket 3/4"
11	1	00 06 37 86	Compressor console DM 11 M RAL2004
12	1	00 06 56 95	Diesel motor 9.5 KW DM 11 type 1D81Z22
13	1	00 06 37 97	V-belt guide, compressor DM 11 M RAL2004
14	1	00 06 40 20	V-belt guide, switch side DM 11 RAL2004
15	1	00 06 42 58	V-belt guide, bottom, pump drive DM 11 M RAL2004
16	2	20 20 64 00	Hex nut M8 DIN 934 zinc-plated
17	2	20 20 91 00	Spring washer B 8 DIN 127 zinc-pl.
18	4	20 20 72 00	Nut M8 DIN 985 zinc-pl.
19	2	20 20 78 02	Hex screw M8 x 50 DIN 933 zinc-pl.
20	1	00 07 20 01	Clamp plate, battery holder, front DM 11 RAL2004
21	1	00 07 19 95	Clamp plate, battery holder, rear DM 11 RAL2004
22	1	00 06 97 15	Pipe clamp for exhaust pipe DM 11 cpl.
23	1		Copper asbestos ring D=43 x 51 x 2.5
24	1	00 07 21 96	Sponge rubber gasket 40x20x700 (230 x 170)
25	1	00 06 96 65	Battery Bosch Silver 5D 12 V 55 Ah 420 A maintenance-free
26	1	00 06 97 03	Exhaust channel DM 11 RAL2004
27	1	00 06 84 50	Exhaust pipe DM 11
28	4	00 02 32 21	Hex screw M8 x 80 DIN 931 zinc-pl.
29	1	00 06 57 83	Large fan on motor for DM 11 M RAL2004
30	4	00 06 58 15	Spacer fan DM 11 D13.5x2.35x38 VA
31	1	00 06 58 75	V-belt disc DM 11 fan drilled
32	1	00 06 60 94	V-belt disc DM 11 compressor processed
33	1	00 06 58 17	V-belt SPA 1107 LW DIN 7753
34	1	00 06 58 48	Taper locking bush, type 1610-1" D=1" DIN 6885
35	1	00 06 57 87	Small fan on motor for DM 11 M RAL2004
36	4	20 20 72 00	Nut M8 DIN 985 zinc-pl.

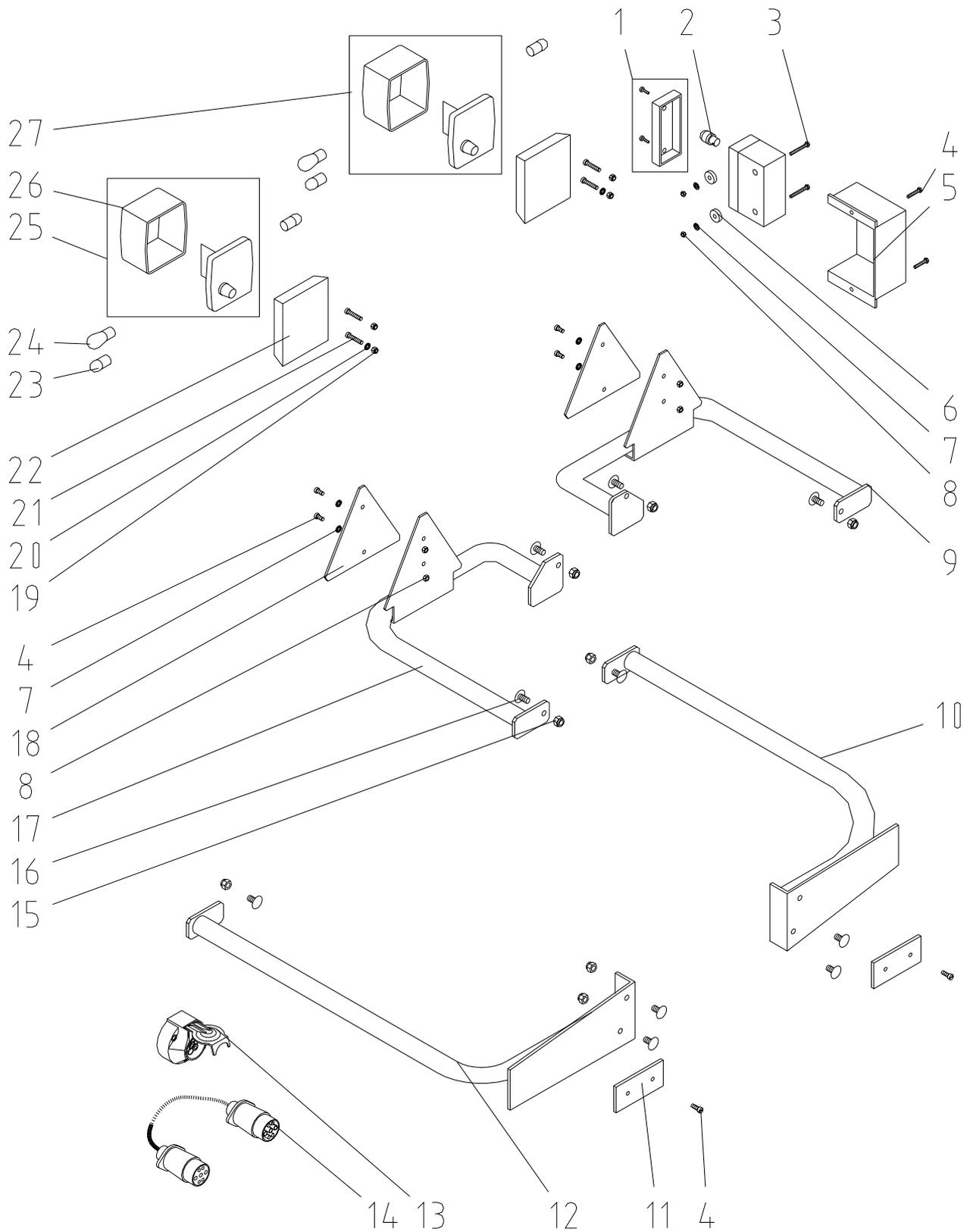
### Brake cylinder drawing



## Brake cylinder replacement parts list

1	2		
2	1	00 06 58 64	Membrane brake cylinder type BX3416
3	1		
4	1		
5	1		
6	1		
7	1		
8	1	00 06 42 66	Bracket fan cylinder/pump g. DM 11 M RAL2004
9	1	20 20 72 00	Nut M8 DIN 985 zinc-pl.
10	1	20 20 63 24	Flat screw M8 x 30 DIN 603 zinc-pl.
11	2		
12	1		
13	1		
14	1	00 06 58 63	Plug-on gearbox DM 11
15	1	00 06 42 60	Bracket, air cylinder mixer DM 11 M RAL2004

Bumper and lighting drawing



## Bumper and lighting replacement parts list

1	1	20 57 37 10	Glass fog lamp
2	1	20 45 91 03	Bulb 12 V 21 W ball shape BA 15S
3	2	20 20 64 05	Cylinder head screw M5 x 60 DIN 84 zinc-pl.
4	7	20 20 64 02	Cylinder head screw M5 x 16 DIN 84 zinc-pl.
5	1	20 57 37 11	Cover for fog lamp zinc pl.
6	2	20 57 37 12	Distance disk D 6 x 20 x 6 polyamide
7	6	20 20 93 16	Washer A 5.3 DIN 6798 zinc-plated
8	6	20 20 65 01	Hex nut M5 DIN 934 zinc-pl.
9	1	00 06 46 79	Bumper, rear left DM 11
10	1	00 06 47 51	Bumper, rear right DM 11
11	2	00 06 52 32	Rear reflector, white 94 x 44
12	1	00 06 47 50	Bumper, front right DM 11
13	1	00 03 62 93	Vehicle panel mounted socket 12 V 7 pin
14	1	00 02 20 34	Vehicle plug 12 V 7 pin
15	11	20 20 72 00	Nut M8 DIN 985 zinc-pl.
16	11	20 20 63 14	Flat screw M8 x 16 DIN 603 zinc-pl.
17	1	00 06 45 97	Bumper, rear right DM 11
18	2	20 57 39 14	Rear reflector triangle
19	1	20 20 66 02	Nut M5 DIN 985 zinc-pl.
20	1	20 20 93 19	Washer A 5.3 DIN 6798 zinc-plated
21	1	20 20 64 04	Cylinder head screw M5 x 30 DIN 84 zinc-pl.
22	1	20 57 38 05	Tail light console
23	5	20 45 91 03	Bulb 12 V 21 W ball shape BA 15S
24	2	20 45 91 04	Bulb 12 V 10 W ball shape BA 15S
25	1	20 57 38 01	Tail light, cpl. right 2-part
26	1	20 57 38 11	Glass tail light R + L two-part
27	1	20 27 39 01	Tail light, cpl. left 2-part



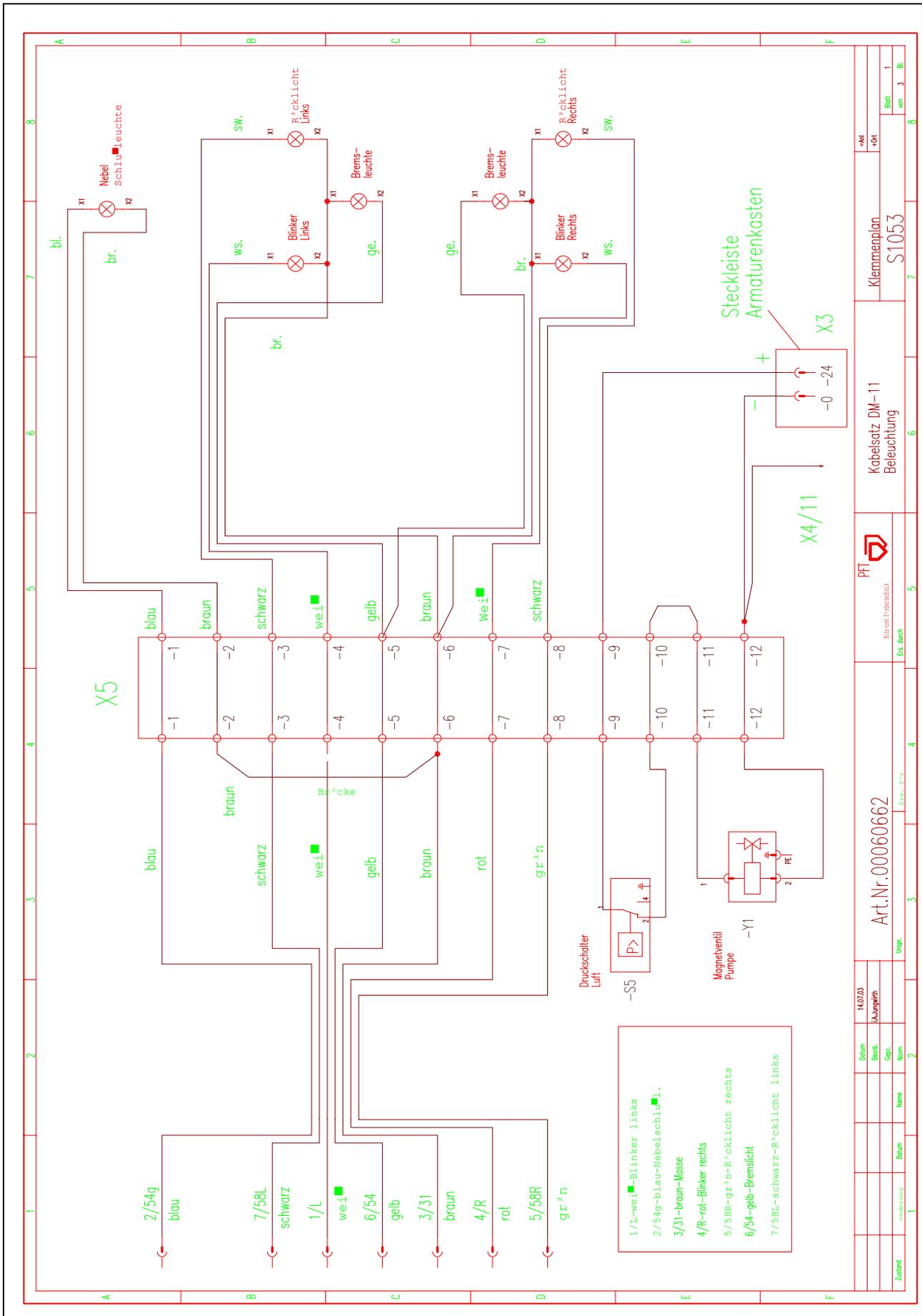
## Check list for annual special inspection (master copy)

The inspection must be carried out once a year by a specialist in accordance with ZH1/575. As a verification of this inspection, the machine and the control box are given an inspection label. The inspection protocol is to be presented on demand.

Date of inspection:	Inspector:	Signed:	Machine number:

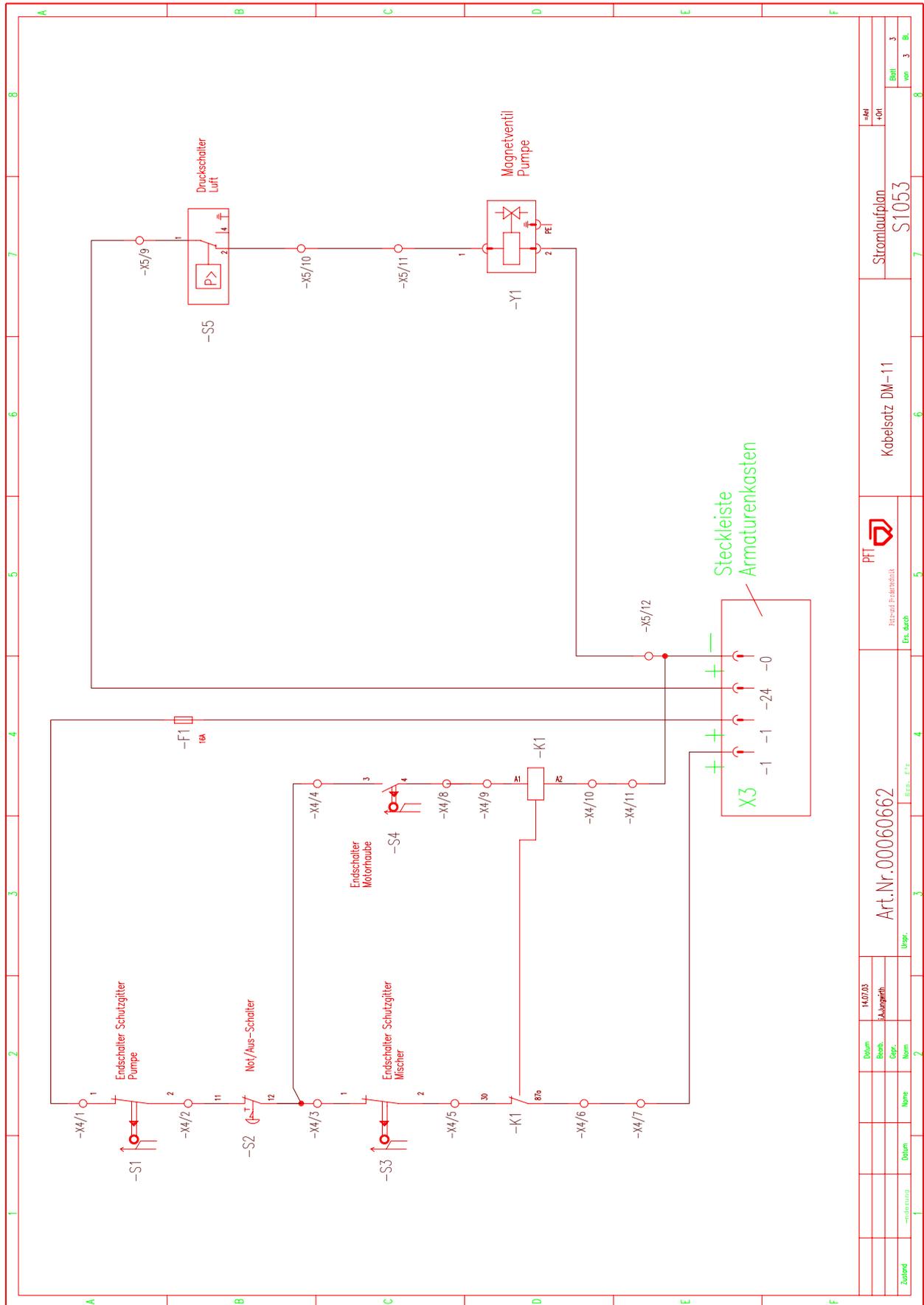
Component	Inspection feature	OK	Recondition /replace
Material hopper	Check all welded seams.		
Material hopper	Destruction due to corrosion or deformation?		
Mixing container	Check plate for wear. Minimum wall thickness 1.0 mm		
Mixing shaft	Check mixing arm for wear.		
Protective grille	Is protective grille still even?		
End switch, protective grille	Check function of limit switch.		
End switch, protective grille	Check power supply to end switch for damage.		
Frame	Check all welded seams.		
Frame	Check firm seating of all screwed joints.		
Frame	Check if distorted. Must be stable.		
Control box	Visual inspection for defects		
Control box	Functional check		
Control box	Are all labels legible and in good condition?		
Control box	High voltage check with 1000 V.		
Control box	Functional check of all safety switches.		
Control box	Functional check of all control lamps.		
Control box	Check firm fit of all cable connections.		
Type sign	Exists and is legible.		
Operating instructions	Available.		
Mortar pressure gauge	Functional check.		

Circuit diagram





Circuit diagram



## Technical Data

Motor drive capacity	Approx. 9.5 KW diesel
Motor speed	Approx. 2600 rpm
Motor	Air-cooled diesel motor
Pumping capacity	Approx. 18-28 l/min (type 2L6)
Pumping distance	Horizontal approx. 60 m, vertical approx. 40 m
Working pressure	Approx. 30 bar
Compressor	1 cylinder up to 250 l/min, depending on speed
Screw pump	Type 2L6 as standard
Hopper capacity	Pump 120 l
	Mixer 250 l
Material hopper filling height	1400 mm
Overall length	3550 mm
Overall width	1360 mm
Overall height	1500 mm
Axle	With suspension max. 140 km/h**
Axle load	650 kg
Point load	60 kg
Overall weight	665 kg
Tyre pressure	2.7 bar
Permanent noise pressure level	75 - 110 dB(A)
<ul style="list-style-type: none"> <li>• Approximate value depending on conveying height, mortar quality, composition and consistency, pump version and condition.</li> <li>• ** Depending on national legislation</li> </ul>	

WE KEEP THINGS MOVING



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