



# Operating manual

**PFT Dust removal unit G 4**

**Safety - Overview - Operation - Spare parts lists**



Article number of the operating manual: 00708487

DUSTCATCHER for G 4: Article number 00539716

DUSTCATCHER for G 4 XL: Article number 00617274

DUSTCATCHER for G 4: Article number 00659260



**Read the operating manual prior to starting any work!**

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# 1 Inspection

## 1.1 Inspection by machine operator

- Prior to each shift, the machine operator has to examine the effectiveness of the control and safety devices, as well as the proper fitting of the protection devices.
- The safe working condition of machine has to be checked by the machine operator during operation.
- If the safety devices show any defects or if any other defects are detected that compromise a safe operation, the supervisor has to be informed immediately.
- In case of defects that cause harm to persons, the operation of the machine has to be stopped to eliminate the defects.

## 1.2 Periodic inspection

- Construction machinery has to be inspected for their safe working condition in accordance with the operating conditions and the operational requirements as needed, however at least once a year by an expert.
- The inspection results have to be documented and kept at least until the next inspection.

# 2 General information

## 2.1 Information regarding the operating manual

This operating manual gives important information on handling the device. A prerequisite for safe working is the observance of all stated safety guidelines and instructions.

Furthermore, the local accident prevention guidelines and general safety instructions for the application area of the device are to be adhered to.

Read the operating manual thoroughly before starting any work! It is a part of the product and has to be kept near the tool and easily accessible to the personnel at all times.

If the tool is given to third parties, also include the operating manual.

The figures in this manual are for presentation purposes of facts, not necessarily to scale and may slightly differ from the actual model of the device.



## 2.2 Information about the safety instructions

These safety instructions give important information on handling the device. A prerequisite for safe working is the observance of all stated safety guidelines and instructions

## 2.3 Keep the manual for future reference

The operating manual has to be available during the whole service life of the product.

## 2.4 Explanation of symbols

### Warning signs

Warning signs can be identified in the operating manual by symbols. The signs are implemented by using signal words, which indicate the intensity of the danger.

Follow the signs unconditionally and work with care to avoid accidents, injuries or material damage.



#### **DANGER!**

... indicates an immediate dangerous situation, which leads to severe injuries or death if not averted.



#### **WARNING!**

... indicates a possibly dangerous situation, which may lead to severe injuries or death if not averted.



#### **ATTENTION!**

... indicates a possibly dangerous situation, which may lead to minor injuries if not averted.



#### **ATTENTION!**

... indicates a possibly dangerous situation, which may lead to material damage if not averted.

## General information



### Tips and suggestions



#### NOTE!

... indicates useful tips and suggestions as well as information for efficient and problem-free operation.

### Special safety instructions

The following symbols are used along with the safety instructions, in order to bring special risks to attention:



#### DANGER!

##### **Danger to life from electric current!**

...signifies life-threatening situations due to electric current. Non-adherence to safety instructions may cause severe injuries or even death.

The work to be carried out must be carried out only by an electrician.

## 2.5 Disclaimer

All specifications and instructions in this manual have been compiled considering the applicable standards and regulations, the status of technology as well as our long-term expertise and experiences.

The manufacturer is not responsible for any damage in the following cases:

- Non-compliance with the manual
- Improper use
- Appointing untrained staff
- Unauthorised changes
- Technical modifications
- Use of non-standard spare parts

The actual scope of delivery may vary from the descriptions and illustrations given here in case of special deliveries, demand of additional order options or due to latest technical changes.

Otherwise, the obligations agreed upon in the delivery contract, the general terms and conditions as well as the delivery conditions of the manufacturer and the legal regulations applicable at the time of signing the contract, are applicable.



## 2.6 Copyright

Treat the operating manual as confidential. It is meant exclusively for the person operating the tool. Giving the operating manual to a third party with prior written consent from the manufacturer is strictly prohibited.

**NOTE!**

*The textual data, texts, drawings, images and other illustrations are copyright protected and are subject to the commercial copyrights. Every misuse can be penalised.*

Duplication of any kind or in any manner - even in parts - as well as using or distributing the content is strictly prohibited without a written declaration from the manufacturer. Violations may lead to damage compensation. Other claims are reserved.

## 2.7 Spare parts

**WARNING!****Danger of injury due to wrong spare parts!**

Wrong or defective spare parts can cause damage, malfunctioning or total breakdown as well as hamper the safety.

Therefore:

- Use only original spare parts provided by the manufacturer.

Buy spare parts from an authorized dealer.

## 2.8 Technical information

Our customer hotline is available for technical help and information.

Information about the responsible contact person can be obtained at all times via telephone, fax, email or via the internet, also see manufacturer's address on page 2.

Furthermore, our employees are always interested in new information and experiences, resulting from use and which can be useful for improving our products

## 3 Safety

This section gives an overview of all important safety aspects for optimum protection of personnel as well as for safe and efficient operation.

Non-compliance with the working instructions and safety instructions in this manual can cause considerable damage.

### 3.1 Responsibility of the operator

The tool is used in the commercial field. The operator of the tool is therefore liable to follow the legal duties for occupational safety.

Apart from the occupational safety instructions in this operating manual, the safety, accident prevention and environment protection regulations must be adhered to.

Here, the following is especially applicable:

- The operator must be aware of the applicable occupational safety provisions and determine the dangers in a risk assessment, which are present due to special working conditions at the operational site of the device. He must implement these in form of operating instructions for operating the tool.
- During the entire time of use, the operator must check if the operating instructions created by him comply with the current regulations and adjust if required.
- The operator must clearly regulate and define the responsibilities for installation, operation, maintenance and cleaning.
- The operator must ensure that all employees handling the tool have read and understood the operating manual. In addition to that, he must train the personnel at regular intervals and notify about the risks.

Furthermore, the operator is responsible to keep the tool in technically flawless condition at all times; the following is applicable for it:

- The operator must have all safety equipment checked regularly for functionality and completeness.
- The operator must supply the personnel with the necessary protective equipment.





## 3.2 User

### 3.2.1 Requirements



#### **WARNING!**

#### **Danger of injury if not properly qualified!**

Improper use can lead to severe injuries or considerable material damage.

Therefore:

- Only let the people mentioned in the respective sections of this manual carry out the special activities.
- When in doubt, consult experts.

The following qualifications are given for various work fields in the operating manual:

- **Instructed person**  
has been trained by the operator to carry out the work assigned to him and made aware of the possible risks with incorrect conduct.
- **Specialist**  
carries out the work allotted to him due to his technical qualification, skills and experience as well as knowledge of the relevant regulations and is aware of the possible risks on his own.
- **Electrician**  
carries out the work on electrical systems due to his technical qualification, skills and experience as well as knowledge of the relevant standards and regulations and is aware of the possible risks on his own.
- An electrician is specially for the work field, in which he works, is qualified and knows the relevant standards and provisions.  
Only those people must be allowed as personnel, who can be expected to do their work properly. Persons, who are under the influence of drugs, alcohol or any medication are not permitted.  
Select people who comply with the regulations governing age and profession applicable at the operational site

## Unauthorised

**WARNING! Danger for unauthorised personnel!**

Unauthorised persons not fulfilling the requirements given here, are not aware of the risks in the working area.

Therefore:

- Keep unauthorised persons away from the working area.
- When in doubt, speak to the persons and escort them out of the working area.
- Discontinue working until the unauthorised persons leave the work area.

## 3.3 Intended use

The dust removal unit is conceptualised and designed exclusively for the purpose of use specified here.

For connection to the PFT G 4 X G 4.

PFT has developed this practical aid in order to reduce the dust exposure on construction sites. The PFT dust removal unit serves to protect the worker from increased mineral dust pollution and minimises the dust exposure on the construction site by up to 80%.

- Reduces the fine dust exposure (A and E dust).
- Lowers the risk of silicosis and lung cancer.

**WARNING!****Danger due to improper use!**

Any case of use beyond the specified purpose of use and/or any other sort of use of the tool can lead to dangerous situations.

Therefore:

- Use the tool only for the purpose specified.
- Always adhere to the usage directives of the material manufacturer.
- Strictly follow all instructions in this operating manual.

Claims of any kind due to damage caused by improper use will not be entertained.

The operator of the tool is solely responsible for any damage arising from improper use.

### 3.4 Personal protective equipment

Wear protective gear is necessary while working in order to minimise health risks.

- Wear the protective equipment required for the work at all times during the work.
- Observe the signs regarding personal protective equipment in the working area.

#### Wear in principle



In principle, for all kinds of work, wear:

#### Protective clothing

is tightly fitting clothing with low tear strength, with narrow sleeves and without parts sticking out. It mainly helps to protect from getting stuck into moving machine parts.

Do not wear any rings, chains and other jewellery.

#### Safety shoes

to protect from heavy parts that may fall and from slippery floors.

## Safety



### Protective goggles

to protect the eyes from parts that may fly around and liquid splashes.



### Hearing protection

to protect from hearing deficiencies.



### Hard hat

to protect from parts and materials that may fall or fly onto the person.



### Protective gloves

to protect the hands from friction, abrasion, cuts or severe injuries as well as from coming into direct contact with hot surfaces.



### Face guard

to protect the eyes and the entire face from flames, sparks or heat as well as from particles or exhaust gases.

### Wear for special work

While carrying out special work, special equipment is required. It is separately mentioned in the individual chapters of this manual. This special protective equipment is explained below:

## 3.5 Particular dangers

The residual risks are mentioned in the following section, which are obtained from the danger analysis.

Follow the safety instructions specified here and the warning instructions in the other chapters of the manual, in order to reduce the health risks and to avoid dangerous situations.

**Electricity****DANGER!**  
**Danger to life from electric current!**

There is danger of immediate death if live parts are touched. Damage to insulation or individual parts can be fatal.

Therefore:

- Switch off the power supply immediately if the insulation is damaged and arrange for repairs.
- Work on the electrical system must be carried out by qualified electricians only.
- Switch off the electrical system to work on it and ensure that the voltage has been cut off.
- Switch off the power supply before any maintenance, cleaning or repair work and secure from restarting.
- Do not shunt or decommission any fuses. Adhere to the correct ampere count when replacing fuses.
- Keep live parts moisture-free. It can lead to short-circuit.

**Discharged dust****DANGER!**  
**Danger of injury from discharged dust!**

Discharged dust may lead to injuries to the eyes and face.

Therefore:

- Always wear protective goggles.
- Always position yourself in such a way that you are not hit by the dust being discharged.

**Noise****WARNING!**  
**Hearing impairment due to noise!**

The noise level generated in the work area can cause serious hearing impairment.

Therefore:

- Always wear ear protection while working.
- Only remain in the danger zone as long as necessary.

## Safety



### Moving parts



#### **WARNING!**

#### **Risk of injury due to moving components!**

Rotating and/or linear moving components can cause serious injuries.

Therefore:

- Do not touch moving parts or work on them during operation.
- Do not open covers during operation.
- Observe run-on time:  
Before opening the covers, ensure that the parts are no longer moving.
- Wear tight fitting protective clothing in the danger zone.

### Dirt and objects lying around



#### **ATTENTION!**

#### **Danger of stumbling due to dirt and objects lying around!**

Dirt and objects lying around can be the cause to slip or stumble thus leading to severe injuries.

Therefore:

- Always keep the work area clean.
- Remove all objects that are no longer required.
- Mark stumbling zones with yellow-black stripes.

## 3.6 Safety systems



#### **WARNING!**

#### **Danger to life due to non-functioning safety equipment!**

Safety equipment ensures highest level of safety in operation. Even if work processes become a little more complicated due to safety equipment, they must never be decommissioned. The safety is guaranteed only with intact safety equipment.

Therefore:

- Before starting work, check if the safety equipment is functioning properly and has been correctly installed.
- Never disable safety equipment.
- Do not obstruct access to safety systems such as emergency stop buttons, pull cords, etc.



### 3.7 Conduct in case of danger and accidents

#### Preventive measures

- Always be prepared for accidents or fire!
- Store first-aid equipment (first-aid box, blankets, etc.) and fire extinguishers in reach.
- Familiarise personnel with equipment for accident reporting, first aid and rescue.
- Keep access routes free for emergency vehicles.

#### In case of falls: Act appropriately

- Trigger emergency stop immediately.
- Initiate first aid measures.
- Remove persons from the danger zone.
- Inform responsible person at the operational site.
- Alert doctor and/or fire brigade.
- Keep access routes clear for emergency vehicles.

### 3.8 Signage

The following symbols and warning signs can be seen in the work area. They refer to environment in which they are installed.



#### **WARNING!**

#### **Danger of injury due to illegible symbols!**

With time, the adhesive and the signs can become dirty and fade out in some other way.

Therefore:

- Keep all safety, warning and operating signs in easily legible condition at all times.
- Immediately renew damaged signs or weakened adhesives.

## Transport, storage and packaging



# 4 Transport, storage and packaging

## 4.1 Safety instruction for transport

### Improper transport



#### ATTENTION!

#### Damage from improper transport!

Improper transport may cause substantial property damage.

Therefore:

- When unloading the packages on delivery, as well as transport within the company, pay attention and observe the symbols and instruction on the package.
- Remove packaging only shortly before the assembly.

## 4.2 Transport inspection

On receipt check the delivery immediately for completeness and transport damage.

In case of externally visible transport damage, proceed as follows:

- Do not accept the delivery or under reserve only.
- Note the extent of damage on the transport documentation or on the delivery note of the carrier.
- Initiate complaint process.



#### NOTE!

*Report any defect as soon as it is detected. Claims for damages can be asserted only within the valid warranty period.*

## 4.3 Packaging

### Handling packaging materials

If no agreement for the recovery of the packaging has been made, separate materials according to type and size and reuse or recycle.



#### ATTENTION!

#### Environmental damage due to wrong disposal!

Packaging materials are valuable raw materials and in many cases they can be reused or reconditioned and recycled.

- Dispose of packaging materials in an environmentally-friendly way.
- Observe the applicable local disposal regulations. If required hand over the disposal to a specialist.





### For packaging

The individual packages have to be packed in accordance with the transport conditions to be expected.

Only environmentally-friendly materials were used for the packaging.

The packaging should protect the individual components until the assembly from transport damage, corrosion and other damage. Therefore do not destroy the packaging and remove only shortly before the assembly.

## 5 Safety

### 5.1 Basic safety

#### Personal protective equipment

The following protective equipment has to be worn for all operative work:

- Protective clothing
- Protective goggles
- Protective gloves
- Safety shoes
- Hearing protection



#### NOTE!

*Further protective equipment that is to be worn during particular jobs will be pointed out separately in the warning instructions of this chapter.*

#### Basic information



#### WARNING!

##### Danger of injury due to incorrect operation!

Improper operation may lead to serious damage to persons or property.

Therefore:

- Carry out all operating steps according to the instructions in this user manual.
- Prior to starting your work, ensure that all covers and protection devices are installed and work as intended.
- Never deactivate protective devices during operation.
- Ensure order and cleanliness in the work area! Loose components and tools on top of one another or lying about pose potential accident risks.

## 6 Maintenance

### Basic information

**WARNING!****Risk of injury due to improperly carried out maintenance work!**

Improper maintenance can lead to severe injuries or considerable property damage.

Therefore:

- Prior to starting the works ensure that there is enough space to carry out the works.
- If components were removed, ensure proper assembly and put back all fastening elements.
- Only use original spare parts.
- Do not perform manipulations, or emergency repairs on the dust removal unit and do not misuse it.

**DANGER!****General information!**

- Ensure order and safety at the assembly site! Loose, stacked components or components lying about can cause accidents.
- Not suitable for flammable or corrosive materials.
- Material residues and cleaning agents must be disposed of correctly.

### 6.1 Actions after completed maintenance

After finishing the maintenance works and prior to switching on the machine, the following steps have to be carried out:

1. Check all previously loosened screw connections for secure fit.
2. Check if all previously removed safety systems and covers are properly reinstalled.
3. Ensure that all tools, materials and other equipment used have been removed from the work area.



## 7 Disassembly

After the useful service life has expired, the device has to be dismantled and disposed of in an environmental-friendly manner.

### 7.1 Safety

#### Personnel

- Disassembly must be carried out by specially trained technical personnel only.
- Work on the electrical system must be carried out by qualified electricians only.

#### Basic information



#### **WARNING!**

##### **Risk of injury in case of improper disassembly!**

Sharp components, points or edges on and inside the device or on the required tools might cause injuries.

Therefore:

- Prior to starting the works ensure that there is sufficient space.
- Carefully handle components with sharp edges.
- Ensure order and cleanliness at the working place! Loose components and tools on top of one another or lying about pose potential accident risks.
- Dismantle components correctly.
- Secure components such that they do not fall down or fall over.
- In case of doubt, consult the dealer.

#### Electrical system



#### **DANGER!**

##### **Danger to life from electric current!**

There is danger to life if you come in contact with live parts. Activated electrical components can carry out uncontrolled movements and cause serious injuries.

Therefore:

- Prior to beginning the disassembly, switch off the power supply and finally disconnect it.

## Disassembly



### 7.2 Disassembly

Clean the device for phasing out and disassemble under observance of applicable health and safety rules as well as environmental regulations.

Prior to starting the disassembly:

- Switch off device and secure against restarting.
- Physically separate the complete energy supply to the device, discharge stored residual power.
- Remove operating supplies as well as remaining processing materials and dispose of in an environment-friendly way.

### 7.3 Disposal

If no agreement for the recovery or the disposal was made, recycle the disassembled components:

- Scrap metals.
- Recycle plastic elements.
- Dispose of remaining components, sorted according to the type of material.



**ATTENTION!**  
**Environmental damage in case of incorrect disposal!**

Waste from electronic and electrical equipment, electronic components, lubricants and other auxiliary materials are subject to hazardous waste treatment and must be disposed of by specialised companies only!

The local authority or special waste management operators can supply information on environmentally-friendly disposal.



## Technical data for dust removal unit G 4 X

## 8 Technical data for dust removal unit G 4 X

### 8.1 General information

Article number:	Detail	Value	Unit
	Weight	41	kg
	Weight of de-dusting hood cpl.	16.1	kg
	Weight of industrial vacuum cleaner	20	kg
	Weight of deflector plate with outlet connections	2.3	kg
	Weight of supplement set	1.5	kg

### 8.2 Connection value 230V

Detail	Value	Unit
Supply voltage 50Hz	230	V

### 8.3 Operating conditions

Environment	Detail	Value	Unit
	Temperature range	2-45	°C
	Relative humidity, max.	80	%

## 9 Sound power level

Sound power level LWA	95dB (A)
-----------------------	----------

## 10 Vibrations

Weighted effective value of acceleration to which the upper body parts are exposed <2.5 m/s<sup>2</sup>

## Connection of dust removal unit pro



### 11 Connection of dust removal unit pro



Fig. 1: Connection of dust removal unit

1. Suction hose for de-dusting hood	2. Air control valve
3. Suction hood for top air	4. Deflector plate with outlet connections
5. De-dusting hood	6. Bag opener
7. Hook for attaching the motor protection bar	8. Safety hook
9. Industrial vacuum cleaner	



## 12 Remove connection cable

### Electrical system



**DANGER!**  
**Danger to life from electric current!**

There is danger to life if you come in contact with live parts. Activated electrical components can carry out uncontrolled movements and cause serious injuries.

Therefore:

- Switch off the energy supply before starting any work and secure against restarting.
- Disconnect the power supply by removing the connection cable.

### Secure against restarting



**DANGER!**  
**Danger to life from unauthorised restarting!**

When working with the tool, there is the risk that the energy supply is switched on without authorisation. This poses a danger to life for the persons in danger area.

Therefore:

- Switch off all power supplies before starting any work and secure against restarting.

## Hazardous dusts



### 13 Hazardous dusts

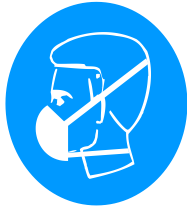


Fig. 2: Dust protection



#### NOTE!

Dusts are fine solid particles distributed in the air that arise for example when bags filled with plaster are emptied, or through blowing off with compressed air, or through dry sweeping with a broom.



#### Warning!

In the long term, inhaled dust can lead to lung damage or have other adverse health effects.



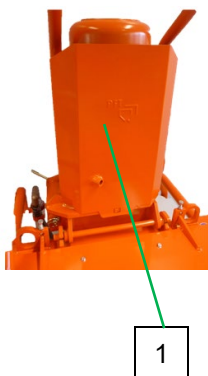
#### NOTE!

The machine operator or the person working in the dusty area always has to wear a dust protection mask when filling the machine!

The rules of the Committee on Dangerous Substances (AGS) can be found under Technical Rules for Dangerous Substances (TRGS 559).

### 14 Fitting the dust removal unit

#### 14.1 Changing the deflector plate



1

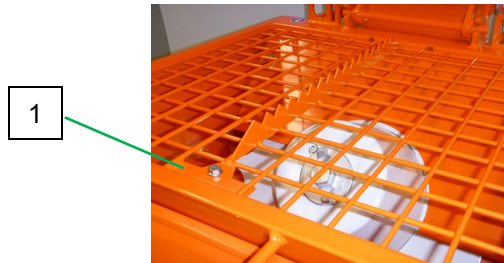
Fig. 3: Deflector plate

1. Take the deflector plate without outlet connection off the motor protection bar.
2. Push on the deflector plate with outlet connection (1).





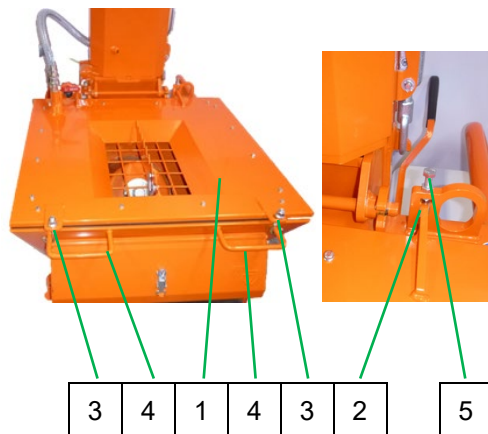
## 14.2 Removing the protective grille



1. Loosen screw (1) and remove protective grille.

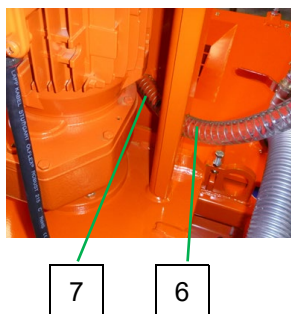
Fig. 4: Removing the protective grille

## 14.3 Fitting the de-dusting hood



1. Slide de-dusting hood (1) into eyelets (2) on the material container.
2. Attach screw hook (3) to the handle (4).
3. Clamp the de-dusting hood (1) on the material container with screw hooks (3) and screws (5).

Fig. 5: Fitting the de-dusting hood



4. Connect suction hose for top air (6) to the outlet (7) of the deflector plate.

Fig. 6: Suction hose

## Monitoring the machine



### 14.4 Connecting the PFT industrial vacuum cleaner

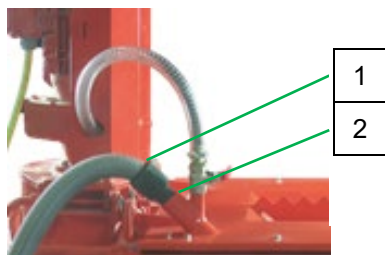


Fig. 7: Suction hose

1. Connect suction hose of the PFT industrial vacuum cleaner (1) to the outlet (2) of the de-dusting hood.



Fig. 8: Power supply 230V

2. Connect the PFT industrial vacuum cleaner to the specified power distributor only.



**DANGER!**  
**Danger to life from electric current!**

The connection line has to be fused properly:

Connect the machine only to a power source with permissible RCCB (30 mA) RCD (residual current operated device) type A.

### 14.5 Switching on the PFT industrial vacuum cleaner

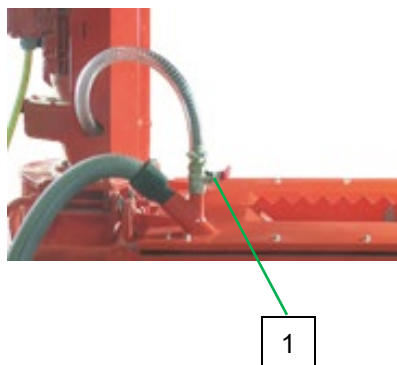


Fig. 9: Suction hose

1. Switch on the PFT industrial vacuum cleaner.



**NOTE!**

The air control valve (1) can be operated with or without top air at the deflector plate.

## 15 Monitoring the machine



**DANGER!**  
**Access by unauthorised persons!**

The machine must be operated only if monitored.



## 16 Spare parts lists

### 16.1 DUSTCATCHER for G 4 Article number 00539716



Pos.	Quantity	Art. no.	Name
1	1	00538445	Deflector plate G 4 with outlet connection
2	1	00538416	Hopper extension DUSTCATCHER
3	1	00623276	Dust remover class M
	1	00426894	Supplement set for industrial vacuum cleaner M
	1	00653323	Filter bag for dust remover class M (VPE 5)

## Spare parts lists



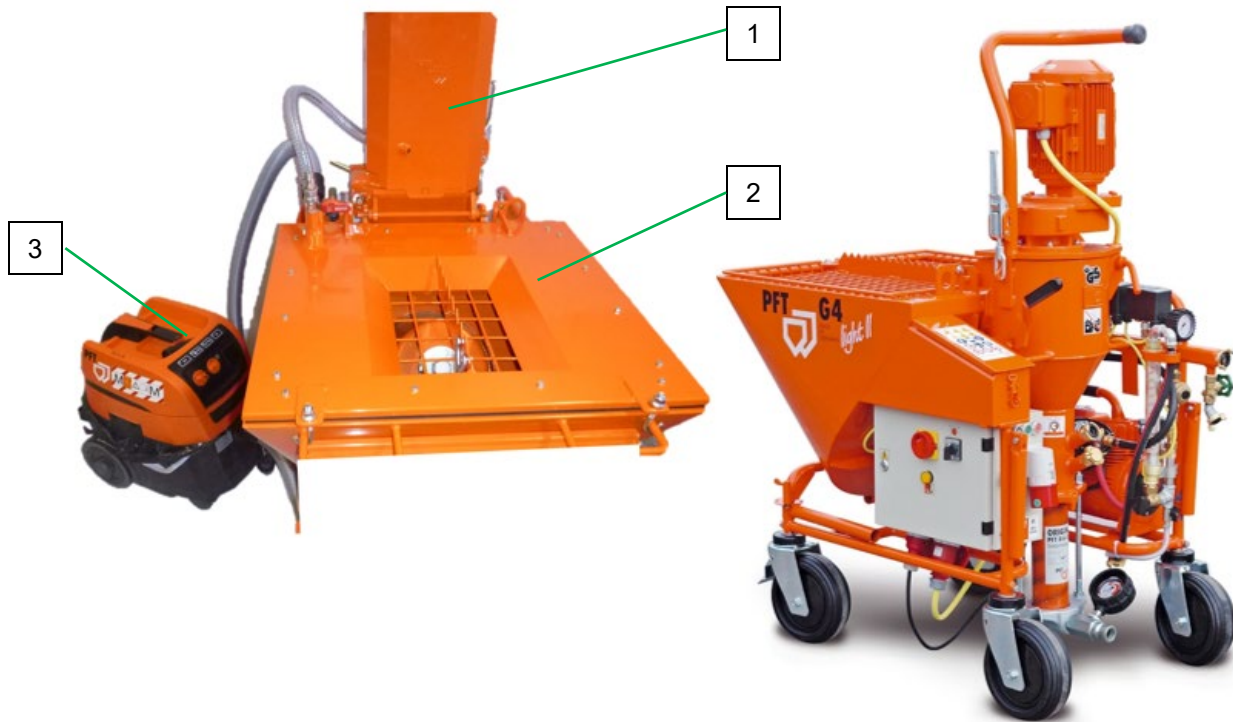
## 16.2 DUSTCATCHER for G 4 XL Article number 00617274



Pos.	Quantity	Art. no.	Name
1	1	00617172	Deflector plate G 4 XL with outlet connection
2	1	00538416	Hopper extension DUSTCATCHER
3	1	00623276	Dust remover class M
	1	00426894	Supplement set for industrial vacuum cleaner M
	1	00653323	Filter bag for dust remover class M (VPE 5)



### 16.3 DUSTCATCHER for G 4 Article number 00659260



Pos.	Quantity	Art. no.	Name
1	1	00659139	Deflector plate for de-dusting hood G 4/G 5
2	1	00538416	Hopper extension DUSTCATCHER
3	1	00623276	Dust remover class M
	1	00653323	Filter bag for dust remover class M (VPE 5)
	1	00426894	Supplement set for industrial vacuum cleaner M
	2	00249687	Tube clamp with rubber profile D32
	2	20206200	Safety nut M6, galvanised
	2	20207101	Hexagonal screw M6 x 16, galvanised (PACKING UNIT = 10 PCS)
	1	00001617	Continuous edge protection m GRE 2045
	1	00023495	Sealing profile EPDM 67 /1011-10

## Spare parts lists



### 16.4 Supplement set for industrial vacuum cleaner M Article number 00426894

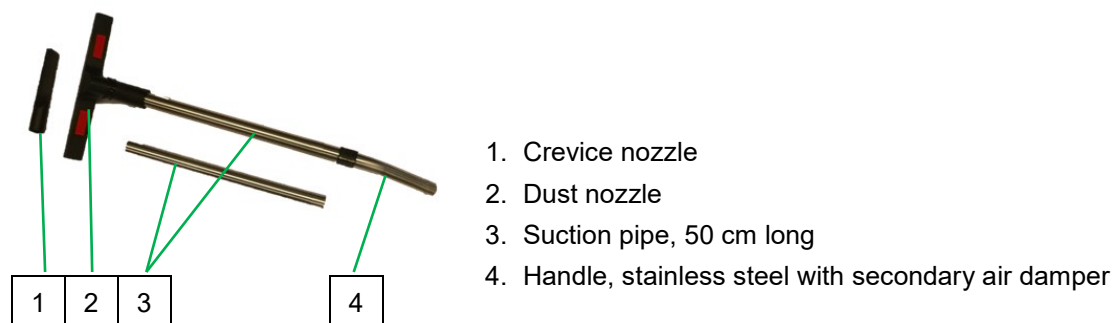
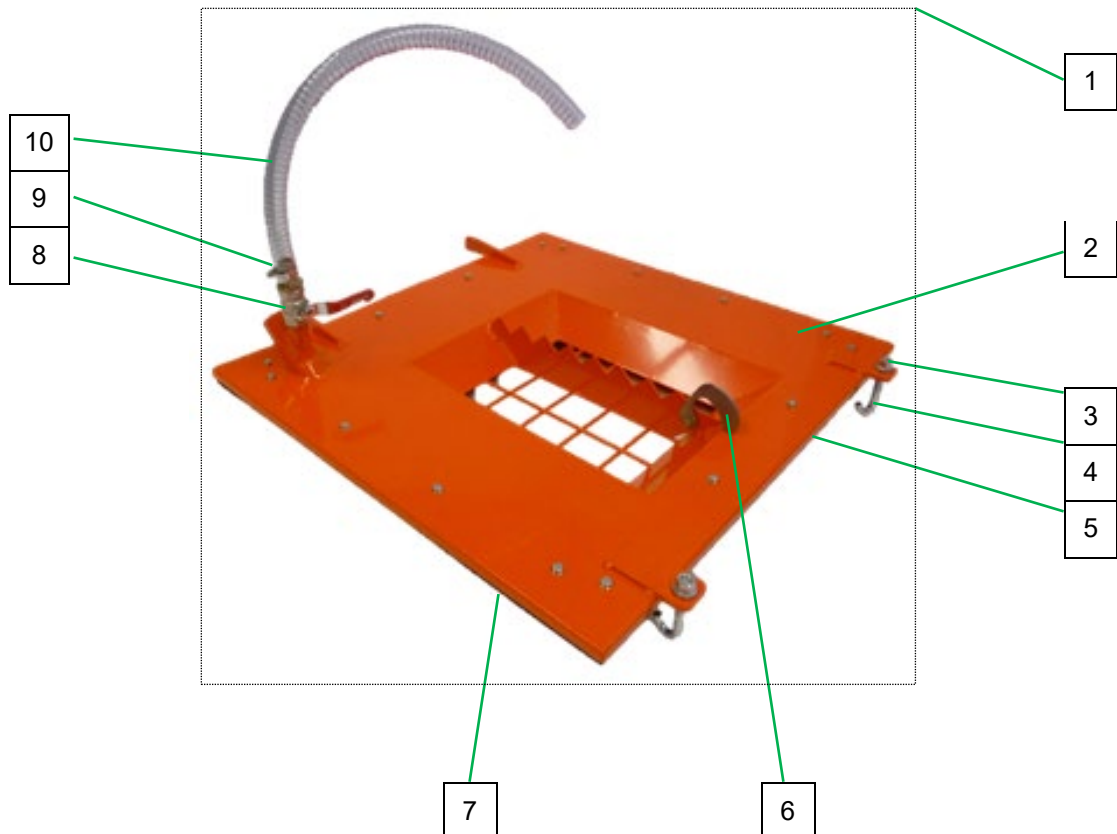


Fig. 10: Supplement set



## 16.5 De-dusting hood cpl. Article number 00538416



Pos.	Quantity	Art. no.	Name
1	1	00538416	Hopper extension DUSTCATCHER
2	1	00538417	Frame, de-dusting hood top
3	2	00226690	Collar nut M10 galvanised
4	2	20602310	Screw hook for clamping lever L = 80mm
5	1	00538430	Frame, de-dusting hood bottom
6	1	00538826	Safety hooks of tilt flange G 4, de-dusting hood
7	1	20600570	External seal 720x658x32x20
8	1	20215170	Ball valve 3/4" internal thread lever
9	1	00011413	Hose clip 20-32mm with screw
10	1	00538722	PVC spiral hose NW20 x 750 mm, transparent



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PFT - ALWAYS AT YOUR SITE



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