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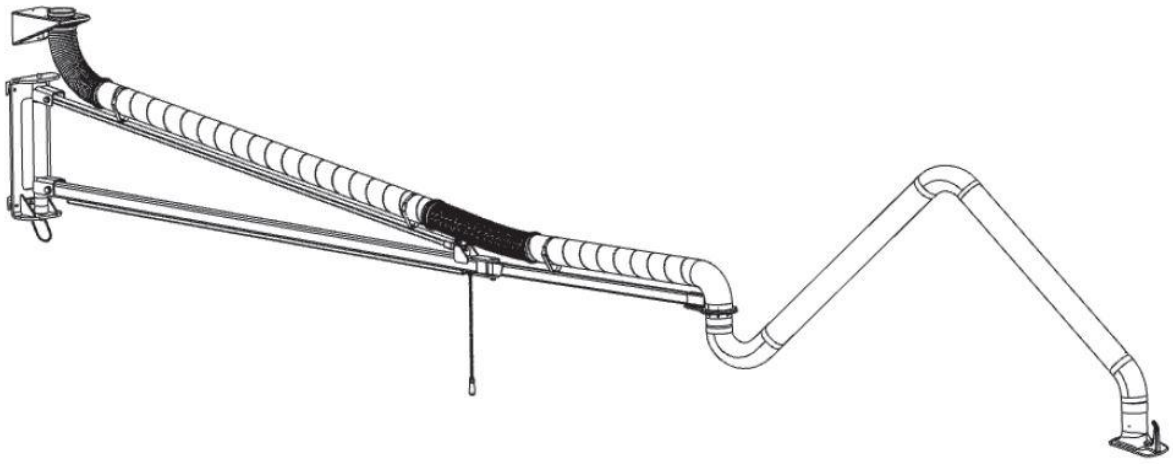

Extraction arm 6-10m

EN – Operating instructions (translation from the original)

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EN – Operating instructions (translation from the original)

1 General

1.1 Introduction

This manual is an essential aid for the proper and safe operation of the product.

These operating instructions contain important information to ensure safe, proper and efficient operation of the product. Observing these instructions helps avoiding danger, reducing repair costs and downtimes and increasing the reliability and service life of the product. The operating instructions must be kept available at all times and have to be read and applied by every person who is assigned to work on or with the product.

These include amongst others:

- the operation and troubleshooting during operation
- the maintenance (care, maintenance, repair)
- the transport
- the assembly
- the disposal

Technical modifications and errors expected.

1.2 References to copyright and industrial property rights

These operating instructions are to be kept confidential and made accessible only to authorised persons. Disclosure to third parties is only permitted with the prior written consent of the manufacturer KEMPER GmbH.

All documents are protected under the Copyright Act. Any form of disclosure, reproduction, or partial use, as well as the communication of its content, is prohibited without express written permission.

Violations will be prosecuted under criminal law and will incur liability for any resulting damages.

Industrial property rights such as patents, trademarks, or designs are exclusively held by the manufacturer.

1.3 Notes for the operating company

The operating instructions are an essential part of the product.
The operating company must ensure that the operating personnel is aware of the contents of this manual.

Based on national regulations for accident prevention and environmental protection, the operating instructions are to be supplemented by the operating company's own operating instructions, including information on regulatory and reporting requirements to meet specific operating requirements, such as work organisation, work flow and staff employed. In

addition to the operating instructions and the relevant obligatory regulations for accident prevention applicable in the country of use, it is also imperative to comply with the recognised technical rules for safe and professional handling.

Without prior consent from the manufacturer, the operating company may not carry out any changes, conversions or additions to the product which may impair safety. Spare parts used must comply with the manufacturer's specified technical requirements. This is always the case with original replacement parts.

Only use trained and instructed staff for the operation, maintenance, repair and transport of the product. Clearly define for staff who is responsible for operation, maintenance and transport.

2 Safety

2.1 General information

The product is designed and built according to state-of-the-art technology and the recognised safety rules and regulations. When operating the product, technical hazards for the operator or impairment of the product as well as other property may occur, if:

- it is not operated by trained or instructed personnel
- it is not used for the purpose intended and/or
- it is improperly maintained

2.2 Information on signs and symbols

⚠ DANGER

This symbol in conjunction with the signal word "Danger" indicates imminent danger. Non-adherence of the safety note leads to death or serious injuries.

⚠ WARNING

The symbol in conjunction with the signal word "Warning" indicates a potentially dangerous situation. Non-adherence to the safety notice may lead to death or serious injuries.

⚠ CAUTION

The symbol in conjunction with the signal word "Caution" indicates a potentially dangerous situation. Non-adherence of the safety note may lead to slight or negligible injuries.
May also be used for warnings against property damage.

NOTE

The general information is simple additional information which does not warn about personal injury or property damage.

1. Enumerations of action steps are marked as numbers with a dot, where the order is important.

- Bullet points indicate lists of parts in a legend or instructions for which the sequence is unimportant

2.3 Markings/signs to be affixed by the operating company

The operating company is obliged to post further markings and signs on the product and the surrounding area if necessary.

Such markings and signs might be related, for example, to the requirement for wearing personal protective equipment.

2.4 Safety instructions for operating staff

Before use, the operator of the product must be instructed through information, instructions and training on the handling of the product and the materials and aids to be used.

The product system may only be used in technically perfect condition, for its intended purpose, in full awareness of the safety aspects and potential dangers and in accordance with these instructions. All errors, especially those that may affect safety, must be removed immediately.

Every person who is charged with commissioning, operation or maintenance must have fully read and understood these operating instructions. This specifically applies to staff who only operate the product occasionally.

The operating instructions must always be within reach of the product.

We accept no liability for any damages or injuries caused by failure to observe these operating instructions.

The relevant accident prevention regulations and other generally recognised safety and occupational health regulations must be observed.

The responsibilities for the various activities included in maintenance and repair must be clearly defined and adhered to. Only then will human error - especially in dangerous situations - be avoided.

The operating company is to enforce wearing of personal protective equipment by operating and maintenance staff. These include in particular safety shoes, safety glasses and gloves.

Do not wear loose, long hair, loose clothing or jewellery. In theory, there is a risk of getting caught on something, or being pulled in or dragged along by moving parts.

If there are any safety-related changes to the product, immediately halt the process, secure it and report the occurrence to the relevant authority/person!

Work on the product may only be carried out by reliable, trained staff. Observe the minimum legal age.

Staff who require training, teaching or instructing or staff who undergo a general apprenticeship may only operate the product under the supervision of an experienced member of staff.

2.5 Safety instructions for maintenance/troubleshooting

Service and maintenance doors must be freely accessible at all times.

Setting up, maintenance and repair work and troubleshooting must only be performed when the product is switched off.

Always tighten bolt connections that have been loosened during repair work. If specified, tighten the relevant bolts with a torque wrench.

In particular, protect connections and screw connections from dirt or care products at the beginning of maintenance/repair/care

The time frames for periodic testing/inspections stipulated or specified in the operating instructions must be observed.

Before disassembling, mark the parts that belong together.

2.6 Notes regarding special types of hazard

⚠ DANGER

Danger of electric shock!

Any work on the electrical equipment of the product must only be performed by a qualified electrician or by operating personnel under the direction and supervision of a qualified electrician in accordance with electronic regulations.

Before opening the product, pull the plug, if available, and secure it against accidental switch-on.

For faults with the product's electrical energy supply, immediately switch the product off at the on/off switch and if available, also pull the plug.

Use only original fuses with the prescribed amperage.

Electrical components, on which inspection, maintenance and repair work must be carried out, must be disconnected from the power supply. Secure equipment that has been used for disconnection against unintentional or automatic reconnection. Firstly check that no voltage is present in activated, electrical components, then isolate adjacent components under voltage. When making repairs, ensure that constructive characteristics are not altered in a way that reduces safety.

Check cables regularly for damage and replace if necessary.

⚠ WARNING

Health hazards caused by welding fume particles

Do not inhale welding dust / smoke! Serious injury to the lungs and respiratory tract is possible!

Sweat smoke contains substances that can cause cancer!

Skin contact with cutting and welding fumes etc. can cause skin irritation in sensitive persons!

Repair and maintenance work on the product may only be carried out by trained and authorised personnel while complying with the safety rules and the applicable accident prevention regulations.

To avoid contact with and inhalation of the dust particles, wear disposable overalls, protective goggles, gloves and a suitable Class FFP2 respiratory protection filter mask in accordance with EN 149.

The release of hazardous dust particles during repair and maintenance is to be avoided to ensure that persons not charged with the task are not affected.

⚠ CAUTION

Health hazard due to noise!

The product can produce noise, please refer to information in the technical data. In connection with other machines and/or local conditions, a higher noise level can occur at the operation site of the product. In this case, the operating company is obliged to provide the operating personnel with the appropriate protective equipment.

3 Product information

3.1 Functional description

The product is designed and built to extract welding fumes locally. The product must not be used in an explosive atmosphere and not for the extraction of an explosive atmosphere. It is not suitable for the extraction of acid and alkali vapours.

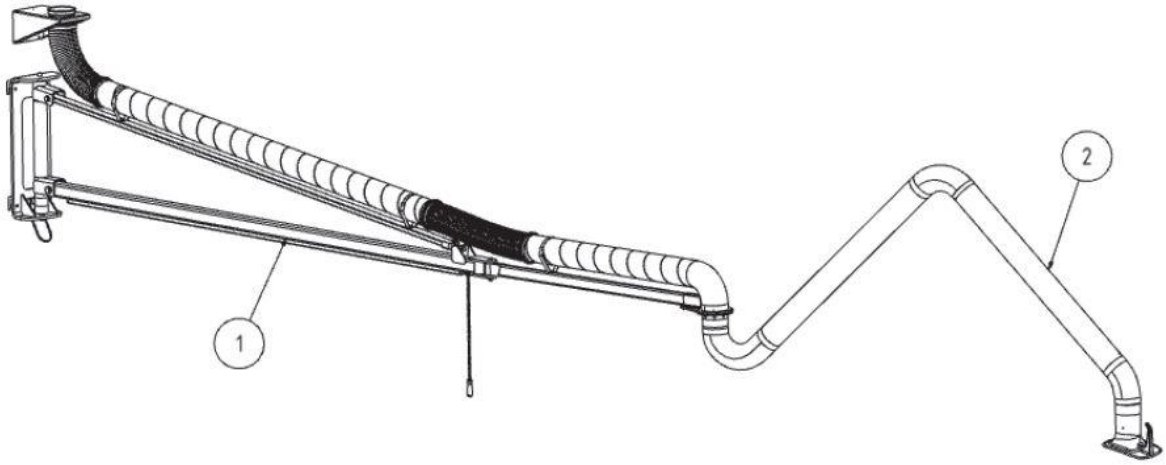


Fig. 1: Extraction arm with hinged cantilever arm

Item	Description
1	Hinged cantilever arm
2	Extraction arm

Tab. 1: Position on the product

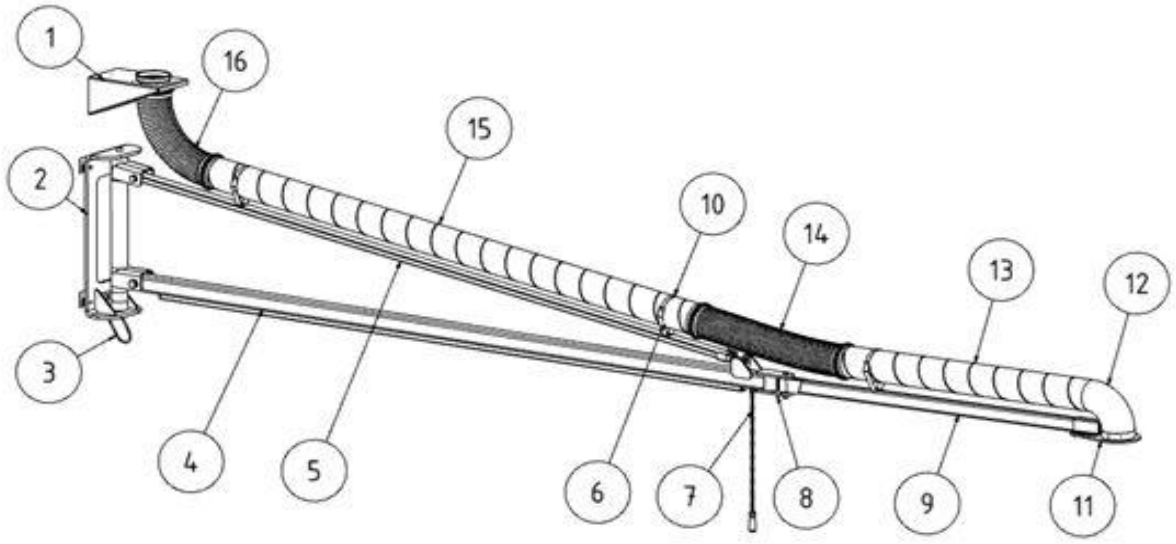


Fig. 2: Cantilever arm

Item	Description	Item	Description
1	Wall mount bracket with extraction opening	9	Cantilever arm
2	Wall console	10	Velcro tape
3	Bracket	11	Extraction arm holder
4	Hinged cantilever arm	12	Pipe bend
5	Hinged tie bar	13	Suction pipe
6	Pipe bracket	14	Tube with 2x clamps
7	Hoist chain	15	Suction pipe
8	Cantilever arm connection	16	Hose with 2x clamps

Tab. 2: Positions on the product

3.2 Intended use

The product is designed to extract welding fumes generated during E-welding from their point of origin. In general, the product can be used for all work processes in which welding fumes are released. However, it is important to ensure that no "sparks" are drawn into the product from, e.g. a grinding process.
The product must not be used in an explosive atmosphere and not for the extraction of an explosive atmosphere.

The product is not suitable for the extraction of acid or caustic vapors.

The technical data includes the dimensions and further details for the product which have to be observed.

NOTE

The information in the chapter Technical data must be observed and strictly adhered to.

Intended use also includes the observation of the instructions and information on

- safety
- operation and control
- maintenance and servicing

contained in this manual.

Any other use or use going beyond this is considered improper use. The company operating the product is solely responsible for any damage resulting from it. This also applies to unauthorised modifications to the product.

3.3 Reasonably foreseeable misuse

No reasonable, foreseeable misuse is possible that could lead to dangerous situations with personal injury when working with the product whilst adhering to its intended use.

The operation of the product in industrial areas that do not comply with the requirements for explosion protection is not permissible.

Furthermore, the operation is prohibited for:

1. Processes that are not in the intended use list and in which the extracted air is:

- is mixed with sparks, e.g. from grinding processes, which due to their size and quantity might lead to damage to the filter media or even to a fire;
- mixed with liquids and the resulting contamination of the air flow with vapours containing aerosols and oils;
- mixed with highly flammable, combustible dust and/or with substances that can form explosive mixtures or atmospheres;
- is mixed with other aggressive or abrasive dust that could damage the product and the filter elements employed;
- is mixed with organic, toxic substances or a proportion of substances that are released when cutting the material.

2. Outdoor locations where the product is exposed to weather conditions because the product must only be installed in closed buildings.
   If there is an outdoor variant of the product available, this may be installed outside. Please note that additional accessories may be required for the outdoor installation.

3.4 Markings and signs on the product

Various markings and signs are affixed to the product. If these are damaged or removed, please replace them immediately with new ones in the same location.

The operating company is obliged to post further markings and signs on the product and the surrounding area if necessary.

Such notes and signs might be related, for example, to the requirement for wearing personal protective equipment.

In the country of use, additional required safety instructions and pictograms can be provided by the manufacturer in accordance with applicable law.

3.5 Residual Risk

Even when all safety rules are observed, when operating the product a residual risk remains, as described below.

All persons working on and with the product must be aware of these residual risks and follow the instructions that prevent these residual risks from causing accidents or damages.

⚠ WARNING

Danger of serious injury to the lungs and respiratory tract – always wear respiratory protection, Class FFP2 or higher.

Skin contact with welding fumes, etc. can cause skin irritation in susceptible individuals – wear protective clothing.

During setup and preparation work, it may be necessary to dismantle on-site safety devices. This creates various residual risks and potential hazards that the operating personnel must be aware of.

The welding process may only be performed if the product has been set to match the extraction of welding fumes.

4 Transport and Storage

4.1 Transport

⚠ DANGER

Life-threatening crushing possible when loading and transporting the product!

Improper lifting and transporting may cause the pallet (if present) to tilt and fall!

- Never stand under suspended loads.
- Observe the permissible loads of the transport and lifting aids.
- Observe the applicable accident prevention and occupational safety regulations.

For transporting products with a pallet, use a suitable pallet truck or forklift.

The weight of the product can be found on the name plate.

4.2 Storage

The product must be stored in its original packaging at an ambient temperature of 20 °C to +50 °C in a dry and clean place. The packaging must not be loaded by other objects.

The storage duration is not critical for all products.

5 Assembly

Instructions for safe installation of the product

NOTE

The operating company of the product may only assign specialists to carry out independent assembly.

- At least two people are needed to assemble the product.
- Only use suitable transport and lifting equipment.
- It must be ensured that the assembly location provides sufficient load-bearing capacity.
- Only use suitable fixing material.
- The fixing material must be selected according to the local conditions.
- The product must not obstruct anyone in their working area.
- Existing air outlet grilles must not be covered.
- Existing maintenance doors and covers must be freely accessible.

⚠ DANGER

Falling parts may cause life-threatening injuries!

Tipping or falling loads lead to severe to fatal injuries.

- Never step under suspended loads.
- Always remain outside the danger zone.
- Observe the total weight, attachment points and centre of gravity of the load.
- Observe the transport instructions and symbols on the transported goods.

⚠ WARNING

Incorrect connections may cause serious injuries!

Please note the necessary safeguards and only have the product connected by trained specialists.

NOTE

The product operator may only instruct persons who are familiar with this task to carry out the independent assembly of the product.

Two staff members are required to assemble the product.

NOTE

When installing the existing add-on products, follow the enclosed instructions.

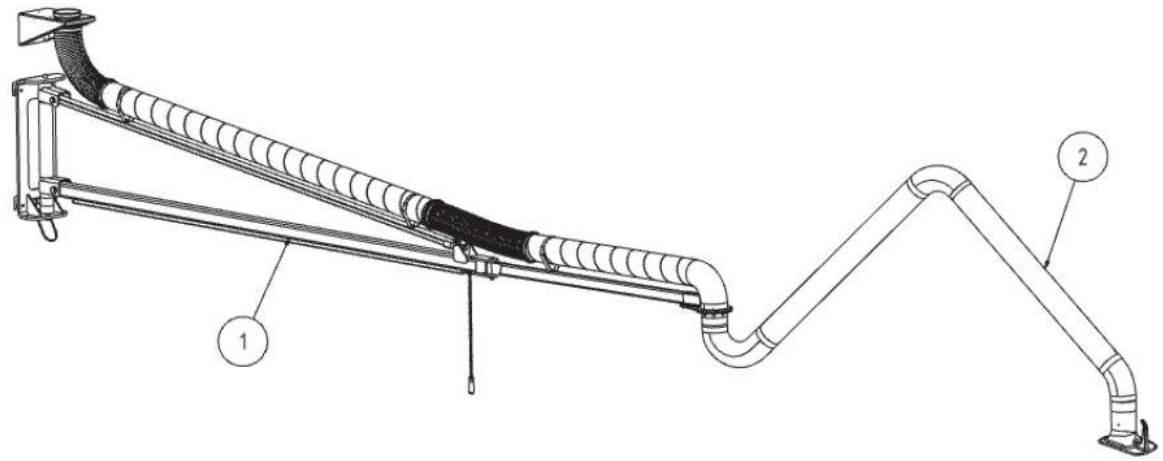


Fig.3 : Boom arm with extraction arm

Item	Description	Item	Description
1	Boom arm	2	Extraction arm

Table3 : Positions on the product

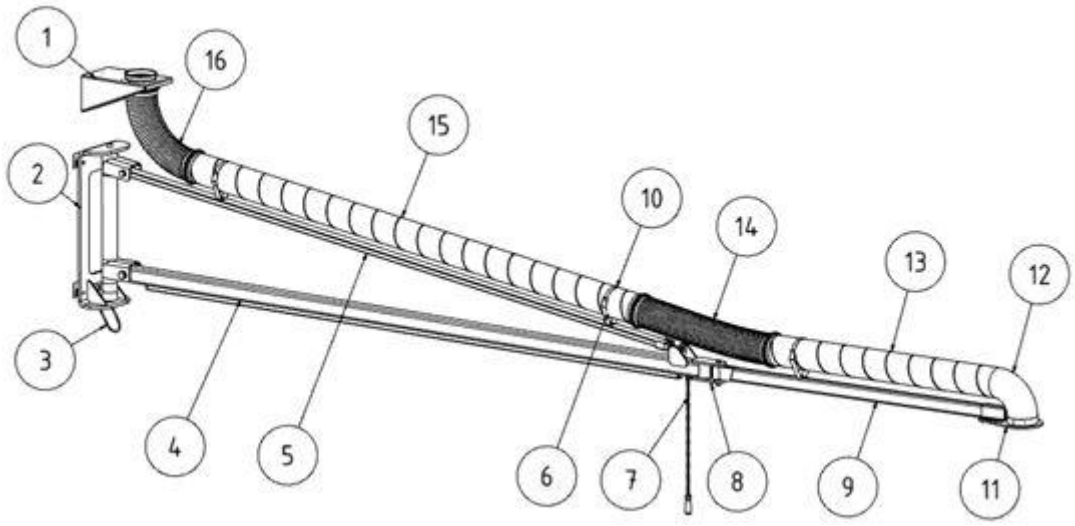


Fig.4 : Positions on the product

Item	Designation	Item	Designation
1	Wall bracket	9	Extension arm 2
2	Wall bracket with extension arm	10	Velcro tape
3	Bracket	11	Extraction arm bracket
4	Extension arm 1	12	Pipe bend
5	Tension strut	13	Spiral-seamed pipe
6	Pipe bracket	14	Suction hose with 2 x clamps
7	Pull chain	15	Spiral-seamed pipe
8	Connection to extension arm	16	Suction hose with 2 x clamps

Table4 : Product components

⚠ WARNING

Serious injury may result from falling and/or from falling components.

Use only suitable, standard-compliant access aids, such as work platforms.

Only use suitable lifting equipment.

Never stand beneath suspended loads.

Two members of staff are required to assemble the product!

5.1 Prerequisites for installation

- Only mount the support arm for the product on suitable walls and columns.
- Use only the supplied fitting components and the recommended fixing materials.
- Observe the tightening torques for the screws.

5.2 Load-bearing capacity of the wall bracket due to the extraction arms

Suction arm length **Hose type / Pipe type**	**Remarks**	**Torque on the wall bracket** (rounded values)	**Tensile force per upper fixing screw** (rounded values)
6 metres	4 m extension arm + 2 m extraction arm	5430 Nm	5,325 N
7 metres	4 m boom arm + 3 m extraction arm	5,565 Nm	5,455 N
8 metres	4 m boom arm + 4 m extraction arm	5,760 Nm	5,650 N
8 metres	4 m boom arm + 4 m extraction arm	9,350 Nm	6,620 N
9 metres	6 m boom + 3 m extraction arm	9555 Nm	6,765 N
10 metres	6 m boom + 4 m extraction arm	9,850 Nm	6,975 N

Table5 : Load table

5.3 Fitting the wall bracket

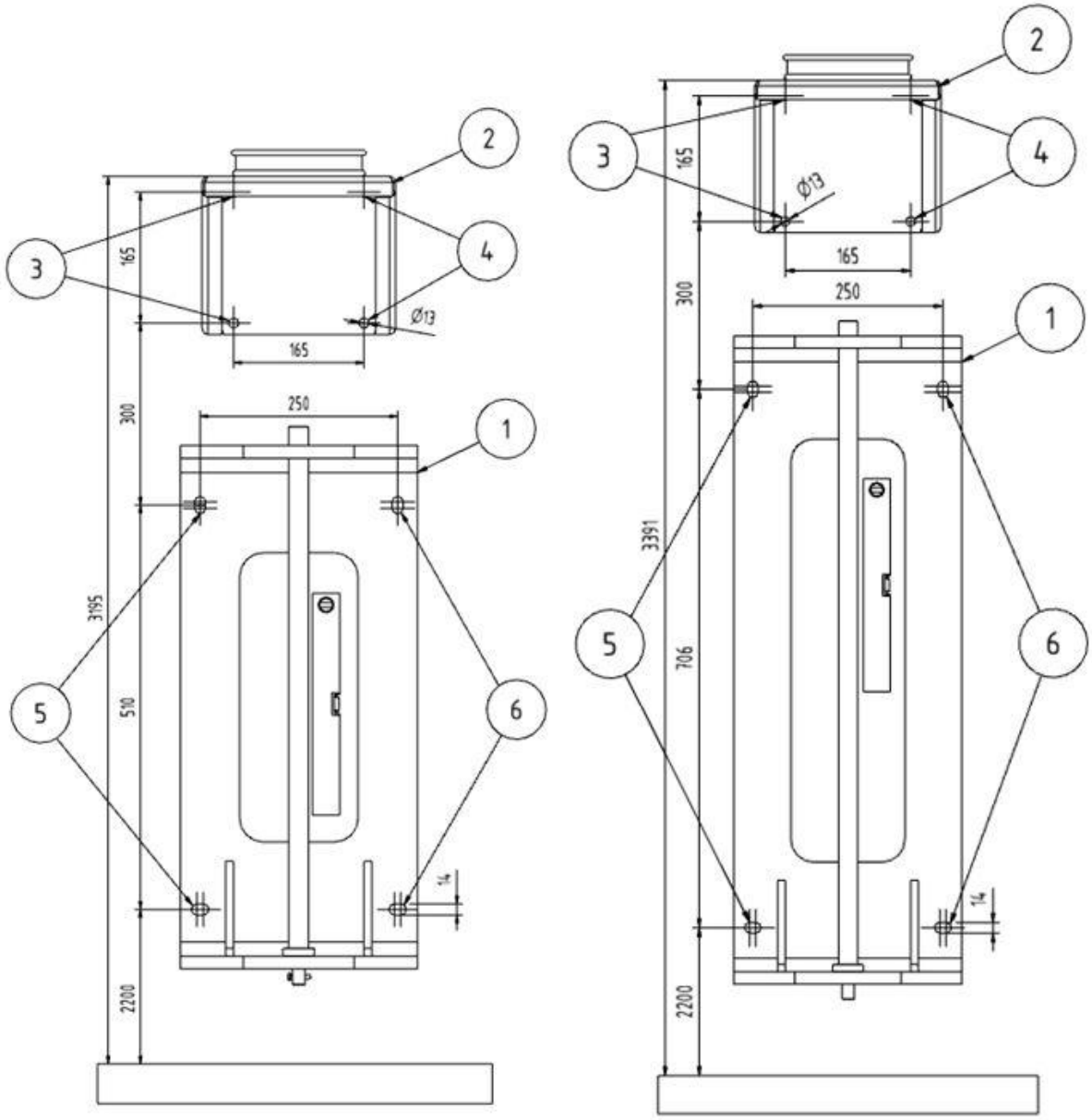


Fig.5 : Wall bracket

Item	Description	Item	Description
1	Wall bracket	3, 4, 5	Drill holes
2	Extraction opening		

Table6 : Positions on the product

1. Secure the wall bracket for the extension arm and the wall bracket with the suction opening to a load-bearing wall or column using suitable screws and wall plugs.
2. Select the large or small wall bracket depending on what is included in the scope of delivery.

NOTE

Follow the recommendations for fixing materials in this operating manual.

3. Use the pre-drilled holes in the wall bracket.
4. Use a spirit level to align the wall bracket.
5. If necessary, use washers between the wall bracket and the wall to compensate for any unevenness.

5.4 Fitting the cantilever arm bracket

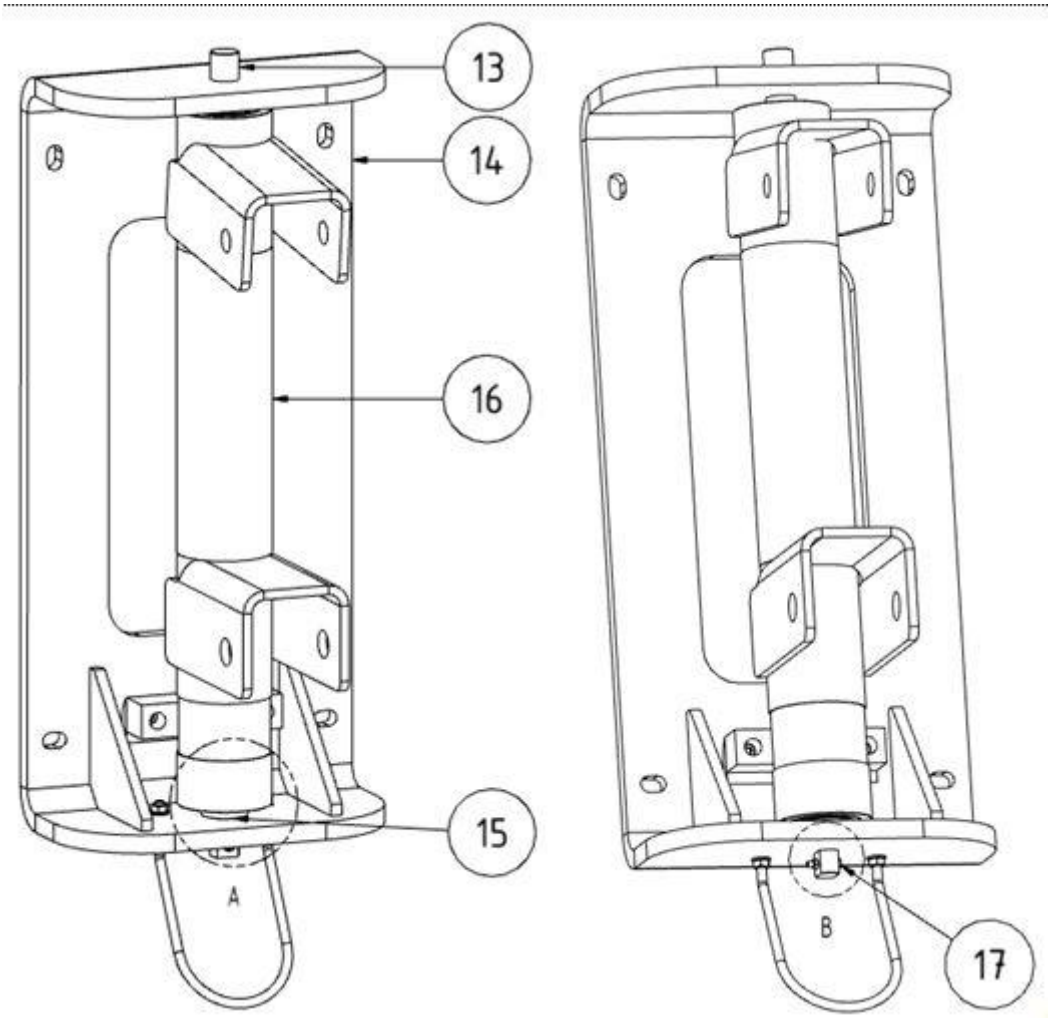


Fig.6 : Bracket for extension arm

Item	Description	Item	Description
13	Axle pin	16	Outrigger arm
14	Wall bracket	17	Screws (M5x20)
15	Spacer washer		

Table7 : Positions on the product

1. Pull the axle pin out of the wall bracket.
2. Position the spacer washers (item 15) on the lower arm of the wall bracket.
3. Similarly, position the bracket for the extension arm so that the axle pin (item 13) can be reinserted without any difficulty.

4. Insert the axle pin (item 13) through the wall bracket, the spacer washers (item 15) and the boom arm bracket.
5. Secure the inserted axle bolt (item 13) below the wall brackets using the screws (item 21).

5.5 Fitting the extension arm – Part 1

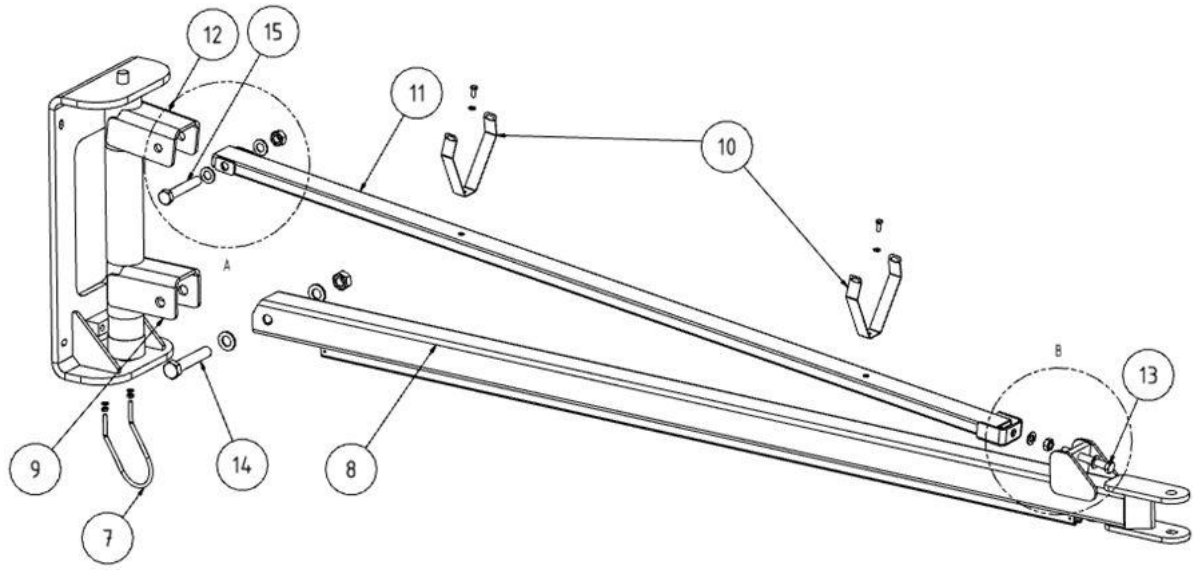


Fig.7 : Boom arm, Part 1

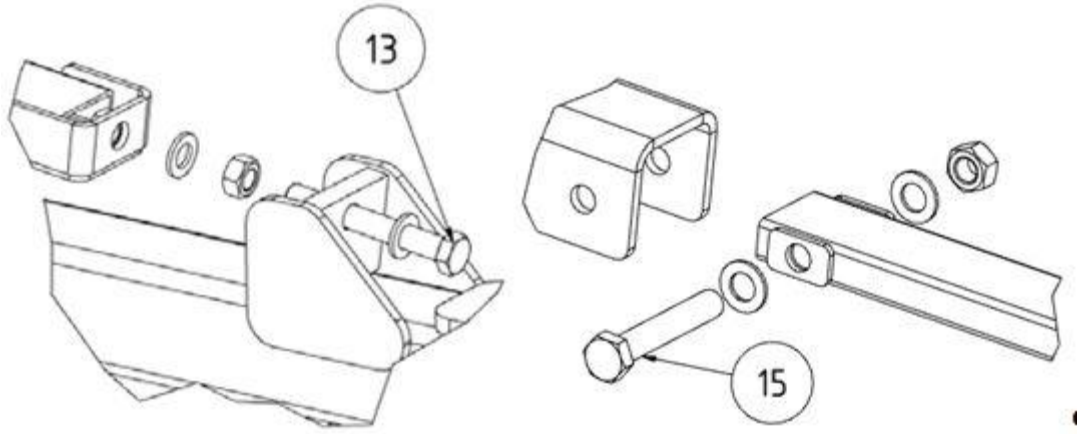


Fig.8 : Boom arm

Item	Description	Item	Description
7	Bracket	11	Tension strut
8	Outrigger arm	12	Wall bracket (top)
9	Wall bracket (bottom)	13	Tension screw
10	Pipe bracket	14+15	Screws

Table8 : Positions on the product

1. Fit the bracket (item 7) to the wall bracket.

2. Position the extension arm (item 8) into the lower bracket of the wall mount and secure it with the screw, ensuring that the extension arm remains movable.
3. Fit the tube holders (item 10) onto the tension strut (item 11).
4. Position the tie rod (item 11) in the upper bracket of the wall mount and secure it with the screw, ensuring that the extension arm remains movable.
5. Lift both parts of the extension arm so that the extension arm is horizontal.
6. Now connect the tie rod and the extension arm using the clamping screw.
7. Align the boom so that it is exactly horizontal by tightening or loosening the clamping screw.
8. Once aligned, tighten the screws securely.

5.6 Fitting the extension arm – Part 2

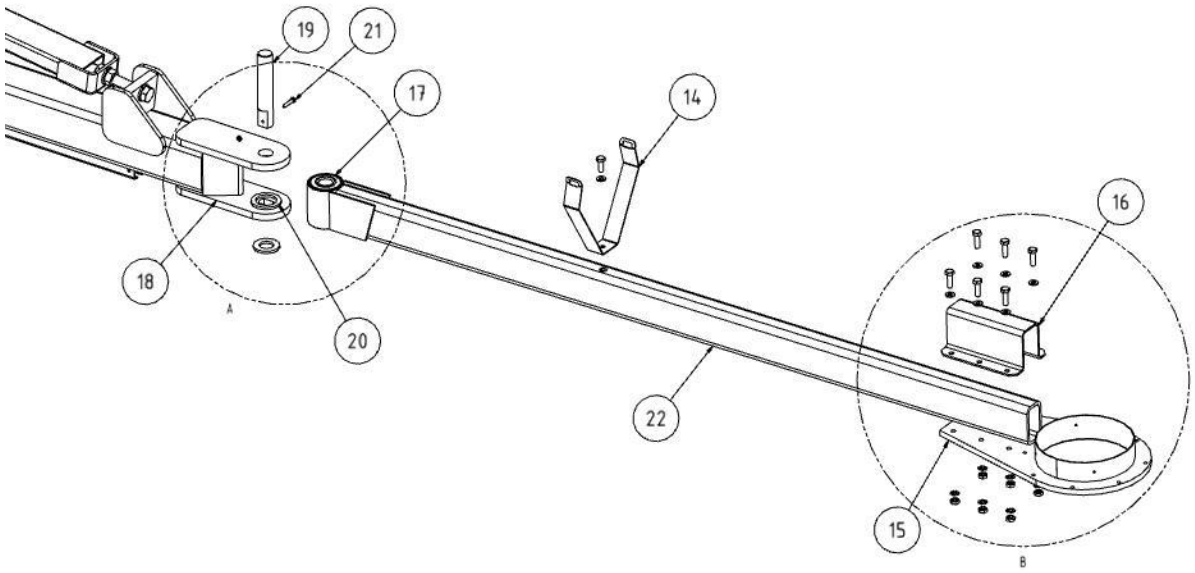


Fig.9 : Boom arm, Part 2

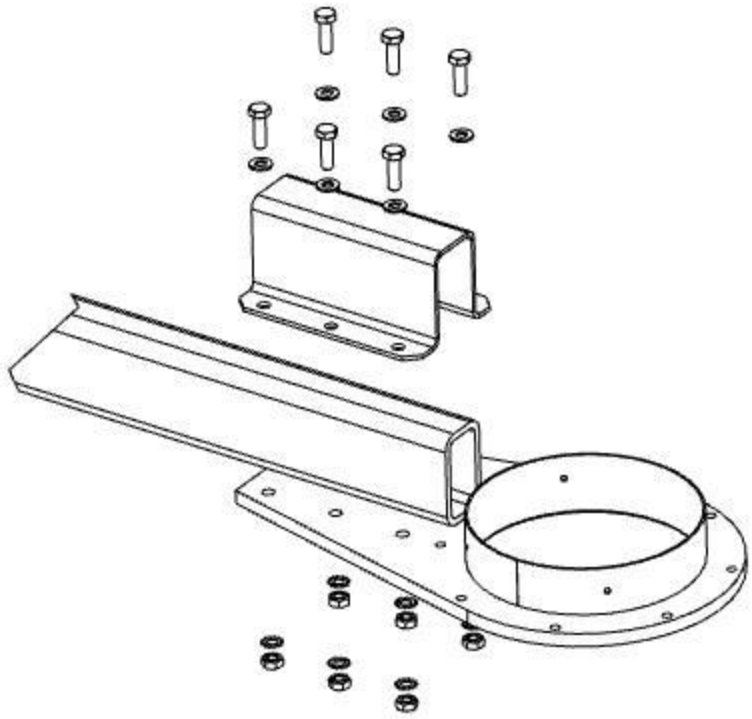


Fig.10 : Fitting the extraction arm bracket

Item	Description	Item	Description
14	Pipe holder	19	Axle pin
15	Extraction arm bracket	20	Spacer washer
16	Clamping profile	21	Screw
17	Plain bearing bush	22	Boom arm 2
18	Outrigger arm 1		

Table9 : Positions on the product

1. Fit the tube holder to boom arm 2.
2. Screw the extraction arm bracket (item 15) to the free end of the second extension arm (item 22) using the clamping profile (item 16).

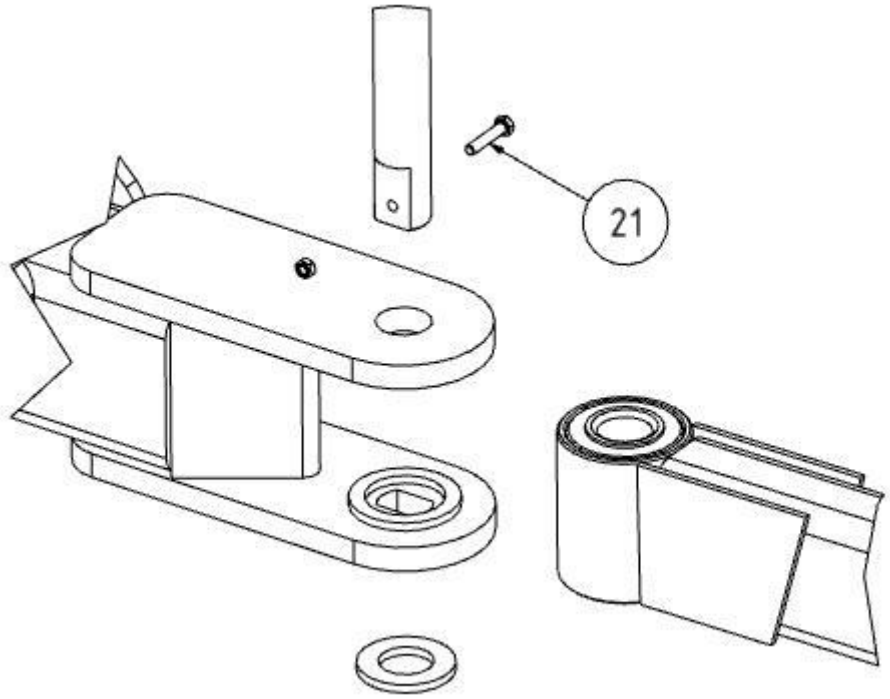


Fig.11 : Connecting the extension arms

3. Position the spacer washers on the lower leg of the extension arm.
4. Then slide the plain bearing sleeve of boom arm 2 (item 22) into the bracket of boom arm 1 (item 18).
5. Insert the axle pin (item 19) through the holes in the bracket on boom arm 1 (item 18), through the plain bearing sleeve on boom arm 2 (item 22) and through the spacer disc (item 20).
6. Slide a washer over the end of the axle pin (item 19) and secure the axle pin with the screw (item 21).

5.7 Fitting the extraction arm to the extension arm

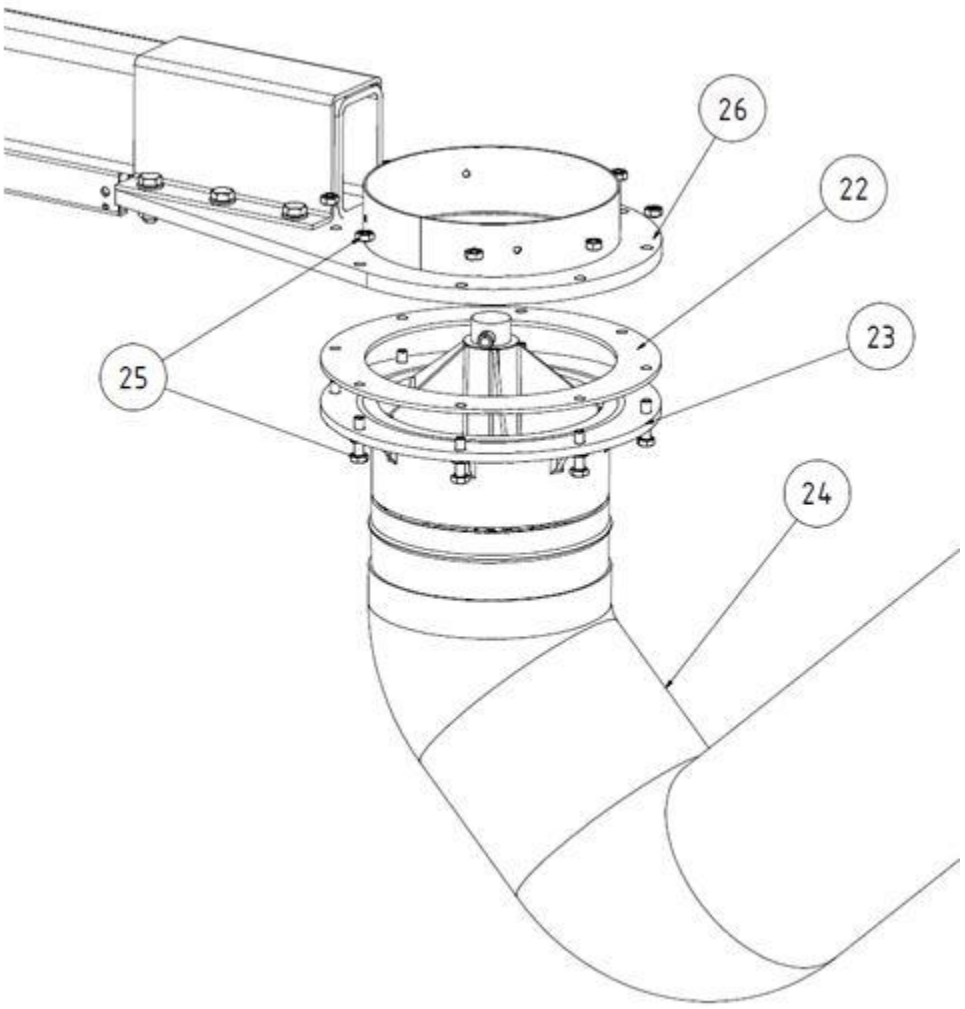


Fig.12 : Extraction arm on the extension arm

Item	Description	Item	Description
22	Rubber seal	25	8 x screws (M6x25) + nuts
23	Swivel ring	26	Extraction arm bracket
24	Extraction arm		

Table10 : Positions on the product

1. Place the flat rubber seal (item 22) onto the flange of the swivel ring (item 23) on the extraction arm.
2. Screw the swivel ring flange (item 23) and rubber seal (item 22) to the extraction arm bracket using the bolts and nuts.

5.8 Adjusting the brake on the extraction arm

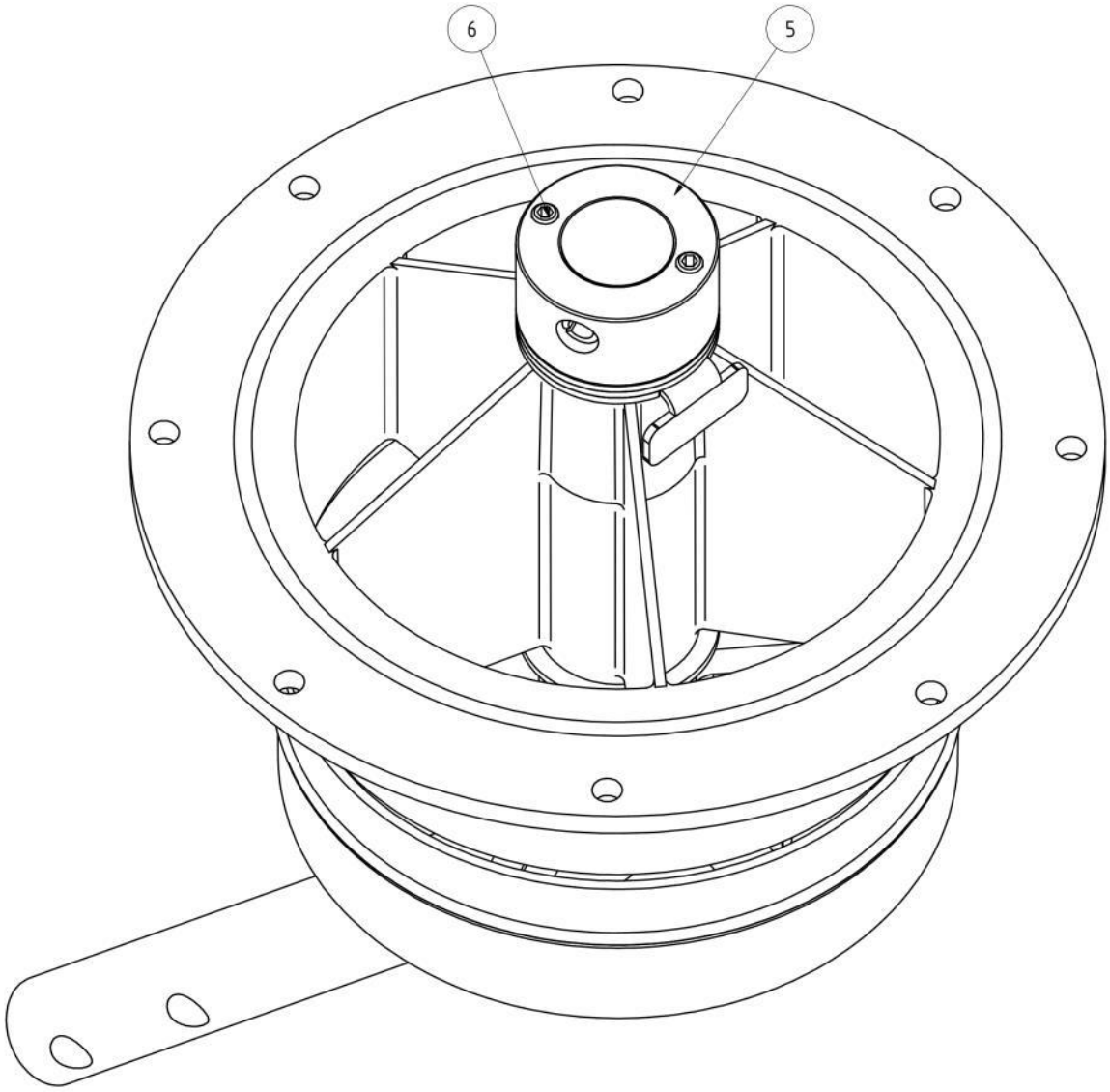


Fig.13 : Brake

Item	Description	Item	Description
5	Brake	6	Screws

Table11 : Positions on the product

1. Adjust the brake (item 5) on the turntable so that the extraction arm remains in place by itself in any swivel position. The brake can be adjusted by loosening or tightening the screws (item 6).

5.9 Fitting the spiral duct

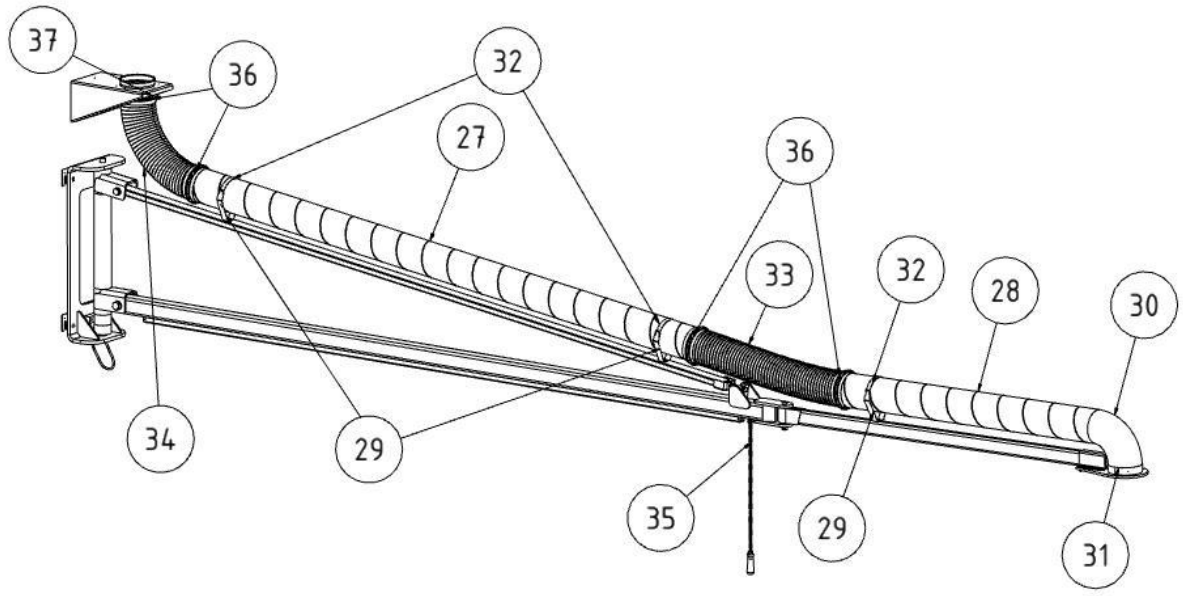


Fig.14 : Fitting a spiral duct

Item	Description	Item	Description
27	Spiral-seam pipe 1	33	Suction hose 1
28	Coiled duct 2	34	Suction hose 2
29	Pipe bracket	35	Pull chain
30	Pipe bend	36	Hose clamps
31	Extraction arm bracket	37	Wall bracket
32	Velcro tape		

Table12 : Product positions

1. Place the spiral duct 1 (item 27) into the designated duct holders (item 29).
2. Insert the pipe bend (item 30) into the spiral-seamed pipe 2 (item 28).
3. Place the spiral duct 2 with the elbow (item 30) onto the duct supports. To do this, the elbow (item 30) must be inserted into the socket of the extraction arm bracket (item 31).
4. Secure the pipe elbow using the sheet metal screws supplied.
5. Secure the spiral duct to the duct holders using the Velcro tape.
6. Slide suction hose 1 (item 33) onto the ends of the spiral-seamed pipes at the joints and secure it with two hose clamps.

7. Similarly, slide the extraction hose onto the wall bracket (item 37) and connect it to the spiral duct 1 (item 27). Then secure the hose ends with two hose clamps.
8. Now attach the pull chain (item 35) to the extension arm.

NOTE

Applies only to extraction arms in the tubular version. Shorten the rear section of the hose to 900 mm.

NOTE

For example, a wire feed case can be hooked into the towing device beneath the boom arm for transport.

⚠ CAUTION

The maximum weight on the first extension arm is 50 kg and on the second extension arm
10 kg must not be exceeded!

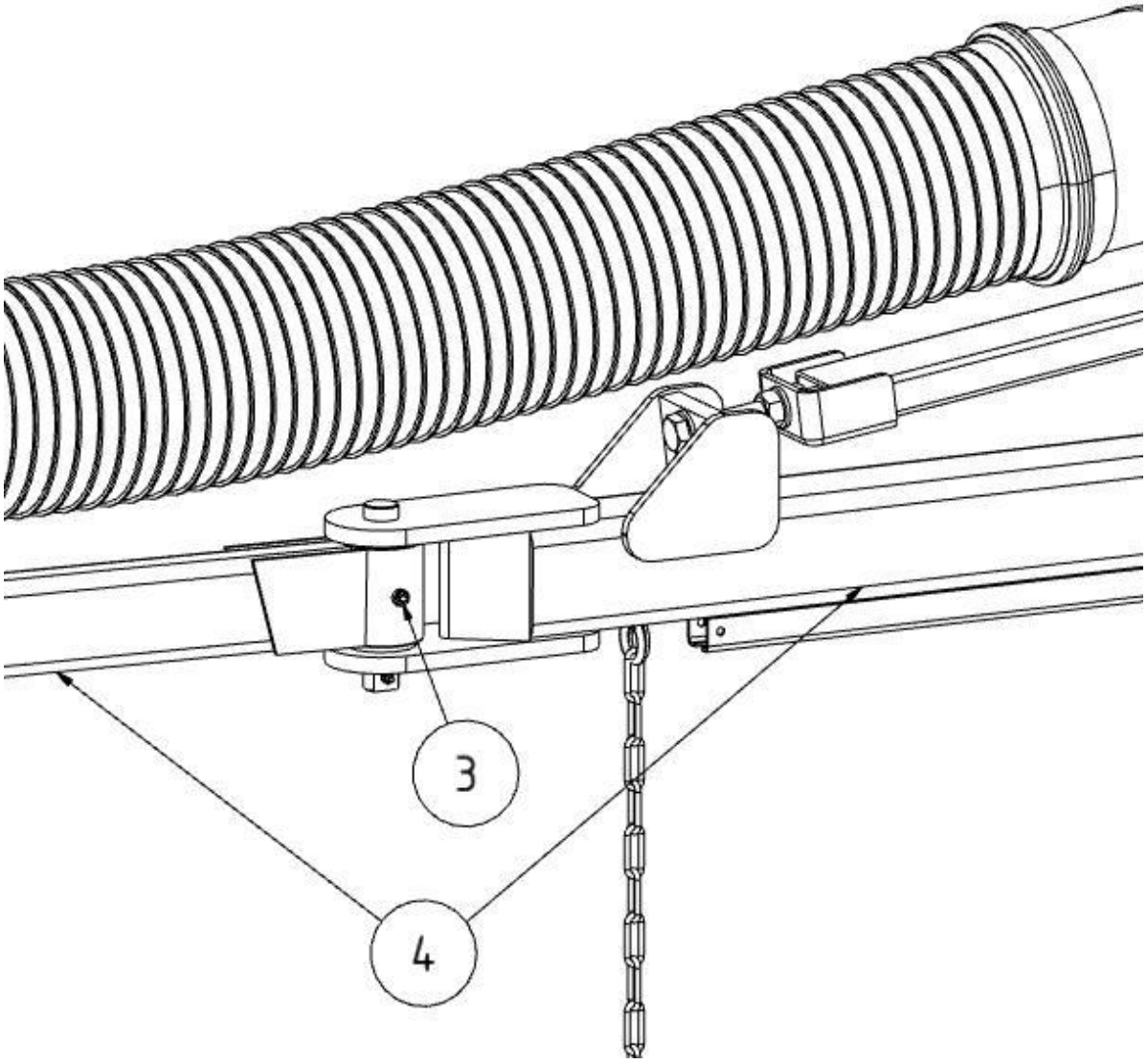


Fig.15 : Brake

Item	Designation	Item	Designation
1+3	Screws	4	Boom arm
2	Brake		

Table13 : Positions on the product

1. Once the complete extraction arm has been fitted, it may be necessary to adjust the brake on the wall bracket and on the centre joint of the extension arms so that it remains in place by itself in any swivelling position.

2. To do this, the braking force can be adjusted by loosening or tightening the screws (pos. 1+3) as required.

5.10 Installation of extractor hood with lighting (optional)

If an extraction hood with an on/off function and lighting is fitted to the product, the extraction hood must be connected to the control unit via a control cable.

The following sections describe the cable routing for extraction hoods with an integrated control board and lighting unit.

NOTE

Before starting installation, check the specific product variant to determine the correct cable routing.

5.10.1 Cable routing through the swivel ring

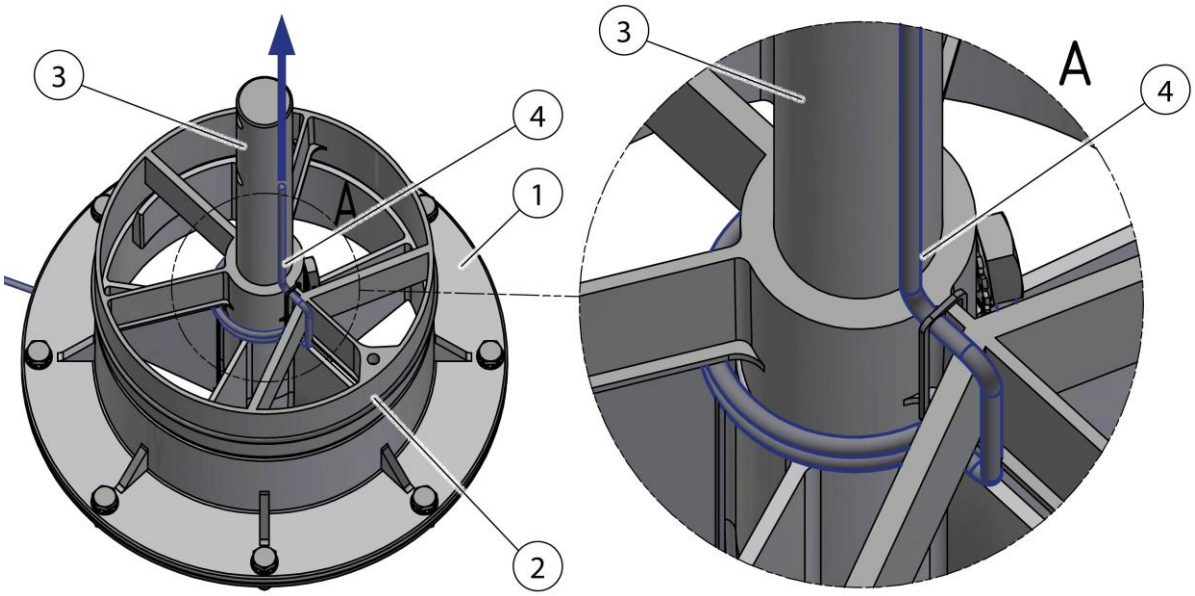


Fig.16 : Slewing ring

Item	Description	Item	Description
1	Flange	3	Mounting shaft – extraction arm
2	Swivel ring	4	Connection cable – lighting

Table14 : Swivel ring

⚠ CAUTION

Risk of damage to the connection cable.

Route the connection cable through the slewing ring in a loop as shown in the illustration and secure it with cable ties to ensure it remains in place.

Check: Ensure that the connection cable is not pinched, kinked or subjected to tension throughout the entire rotation range.

5.10.2 Cable routing – extraction arms with crane cantilever

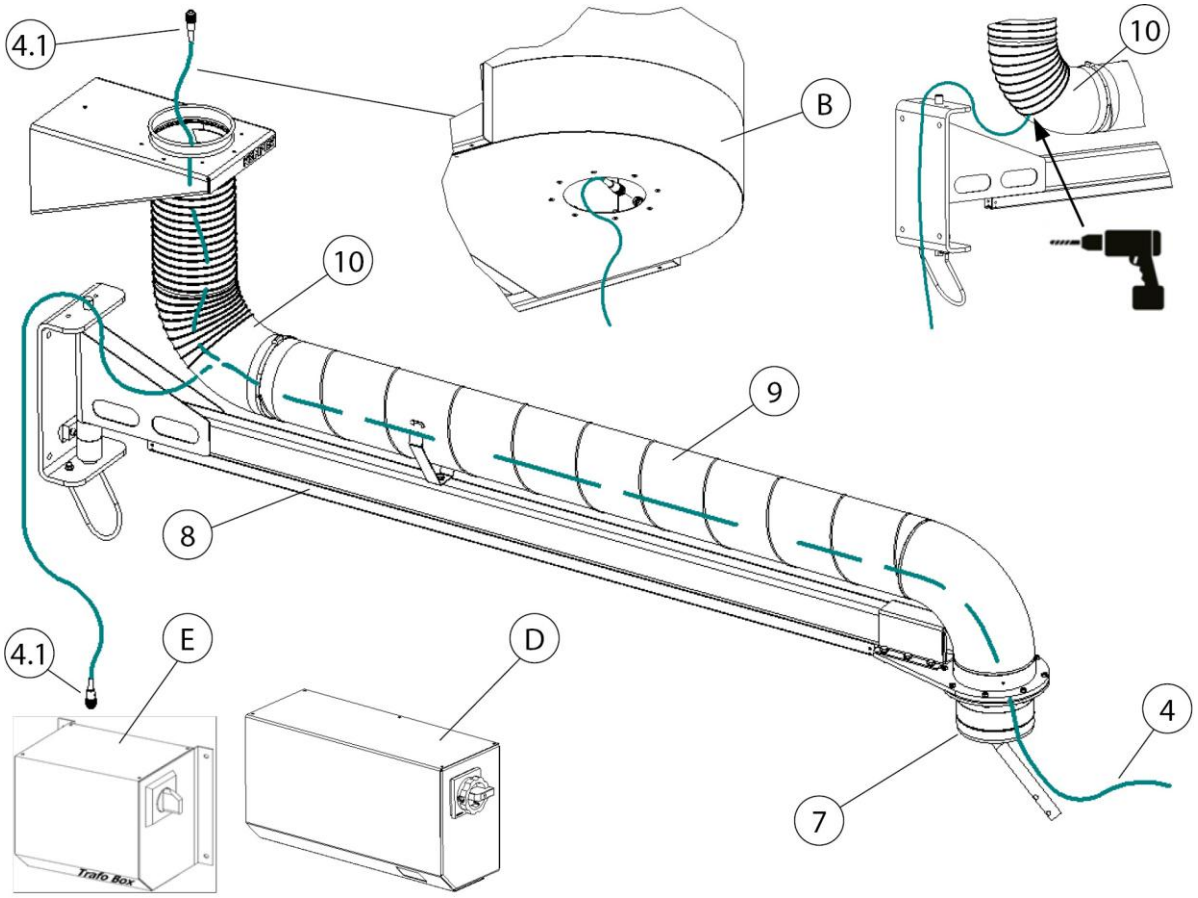


Fig. 17: Cable routing – extraction arms with crane cantilever

Possible cabling routing variants

Pos.	Description	Connection socket for lighting
B	Stationary filter unit	Connection socket in the unit
C	Stationary filter unit with control box	Connection socket on the control box
D	Control box	Connection socket on the control box
E	Transformer box	Connection socket on the transformer box

Tab. 15: Positions on the product

Pos.	Description	Pos.	Description
4	Connection cable (20 metre)	8	Cantilever (2 – 6 metre)
4.1	Connector plug	9	Pipeline
7	Slewing ring	10	Pipe bend

Tab. 16: Positions on the product

Cable routing – stationary filter unit with connection socket in the unit

1. Connect the connection cable (Pos. 4) to the unit. To do this, insert the connector plug (Pos. 4.1.) into the connection socket (Pos. 4.2).
2. Route the connection cable (Pos. 4) through the ducting system up to the extraction arm.
3. For further steps see chapter: Cable routing 2-4 metre extraction arm.

Cable routing – stationary filter unit with control box or transformer box

1. Connect the connection cable (Pos. 4) to the control box (Pos. D) or transformer box (Pos. E). To do this, insert the connector plug (Pos. 4.1.) into the connection socket provided.
2. Route the connection cable (Pos. 4) up to the pipe bend (Pos. 10) of the cantilever (Pos. 9).

NOTE

Damage to the connection cable due to tensile stress or crushing!

When laying, make sure that the connecting cable is not subjected to tension or crushing in the joint areas.

Leave sufficient length when laying the cable!

3. Drill a hole at the back of the pipe bend (Pos. 10) and insert a suitable cable gland.
4. Pull the connecting cable (Pos. 4) through the cable gland, ducting system, slewing ring to the extraction arm.
5. For further steps see chapter: Cable routing + connection of the extraction hood with lighting.

5.10.3 Cable routing – extraction hood + lighting (optional)

NOTE

When installing the existing add-on products, follow the enclosed instructions.

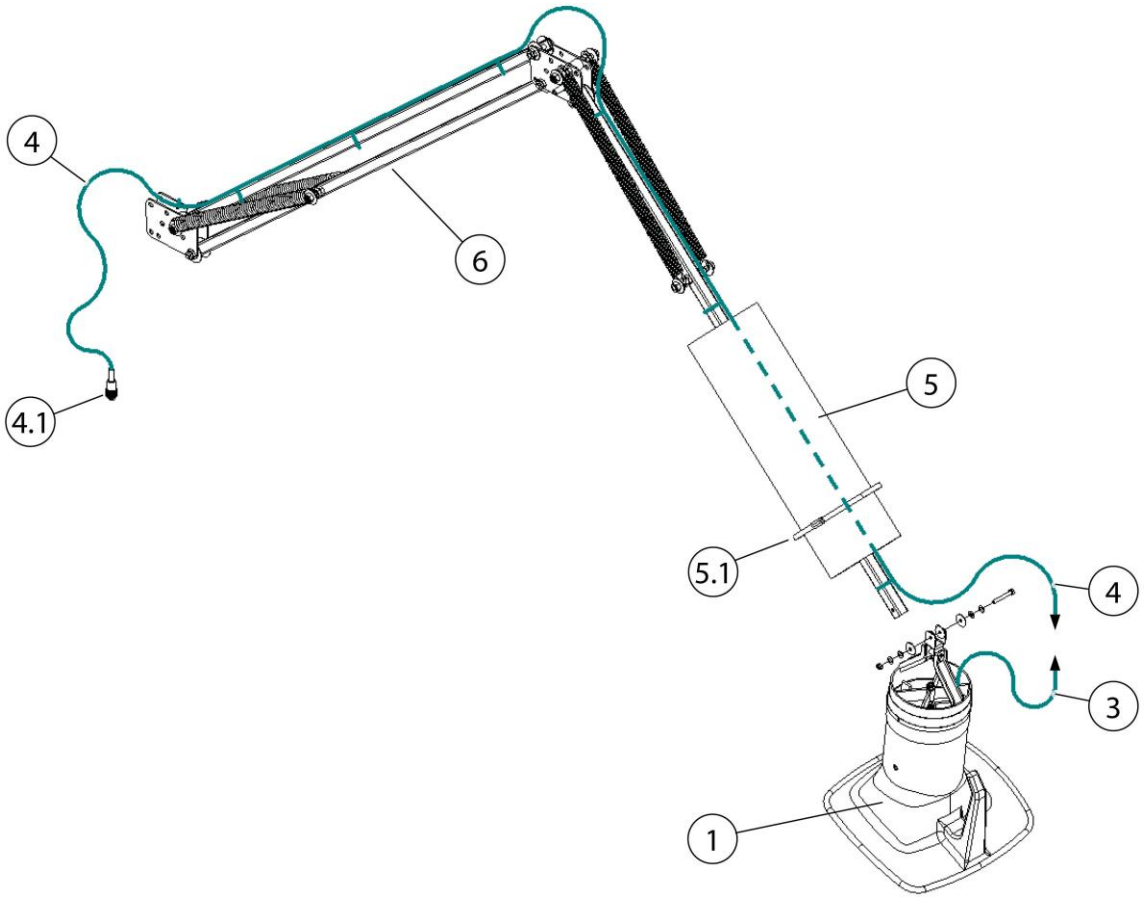


Fig.18 : Cable routing – extraction arm 2–4 metres

Item	Description	Item	Description
1	Extraction hood	4.1	4-pin connector
3	Connection cable – extraction hood	5	Extraction hose/pipe
3.1	Compression fitting	5.1	Hose clamp
4	Connection cable, 20 metres [787.4 inches]	6	Carrying frame

Table17 : Product components

1. Loosen the extraction hose (item 5). To do this, loosen the hose clamp (item 5.1).

2. Attach the extraction hood with lighting (item 1) to the carrying frame (item 6). Use the supplied mounting materials to do this.
3. Route the connecting cable (item 4) along the support frame (item 6), through the extraction hose to the extraction hood, and secure it with the cable ties provided.

NOTE

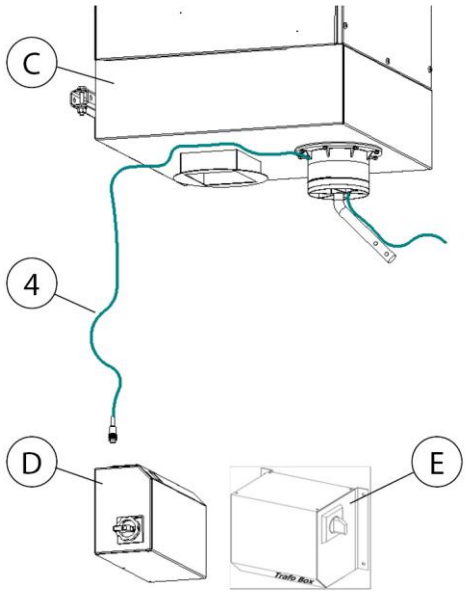
Damage to the connecting cable caused by tension or crushing!

When routing the cable, ensure that the connection cable is not subjected to tension or crushing in the joint areas.

Allow sufficient length when routing the cable!

4. Connect the connecting cable (item 4) to the extraction hood's connection cable (item 3). To do this, shorten the connecting cable (item 4), strip the insulation and connect it to the crimp connectors (item 3.1) according to the corresponding numbers.
5. Attach the rear end of the hose (item 5) to the swivel ring. Use the enclosed hose clamp (item 5.1) to secure it.
6. Attach the other end of the extraction hose (item 5) to the extraction hood (item 1). Use the supplied hose clamp (item 5.1) to secure it.
7. Secure the extraction hose (item 5) again using the hose clamps (item 5.1).

5.10.4 Cable routing and connection - Control Box/ Transformer Box



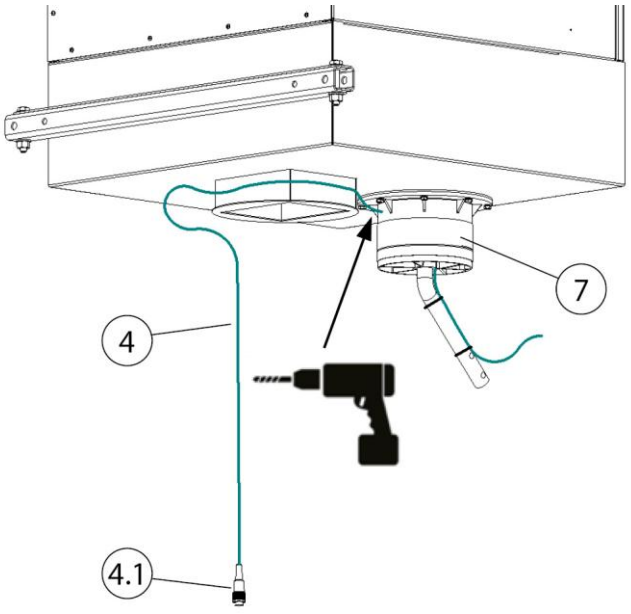


Fig. 19: Cable laying – stationary unit

Pos.	Description	Pos.	Description
C	Stationary filter unit	4	Connection cable 20 metres [787.4 inch]
D	Control box	4.1	Connector plug 4-pole
E	Transformer box	7	Slewing ring - extraction arm

Tab. 18: Positions on the product

1. Connect the connection cable (Pos. 4) to the control box (Pos. D) or transformer box (Pos. E). To do this, insert the connector plug (Pos. 4.1.) into the connection socket provided.
2. Lay the connection cable (Pos. 4) to the stationary filter unit (Pos. C).
3. Drill a Ø 8 mm [Ø 0.31 inch] hole at the back of the slewing ring.
4. Pull the connecting cable through the slewing ring.
5. For further steps see chapter: Cable routing + connection of the extraction hood with lighting + retrofit control box transformer.

6 Use

Every person who deals with use, maintenance and repair of the product must have thoroughly read these operating instructions as well as the instructions for any attachment and accessory products and have understood them.

6.1 Qualification of the operating personnel

The operating company of the product may only commission persons to use the product independently if they are well-versed in this task.

Those familiar with this task includes those who have been instructed appropriately in the task and know the operating instructions as well as the operational issues in question.

The product should only be used by trained or instructed personnel.
This is the only way to ensure safety and hazard awareness of all personnel during work.

6.2 Positioning the extraction hood

The extraction arm or extraction hood is designed in such a way that it can be adjusted and moved easily by hand. Once it has been positioned, the extraction hood maintains its set position of its own accord. Furthermore, both the extraction hood and the arm can be pivoted through 360° so that almost any position can be set. It is important that the extraction hood is always positioned properly in order to achieve adequate capture of the welding fumes. The correct position is shown on the following image.

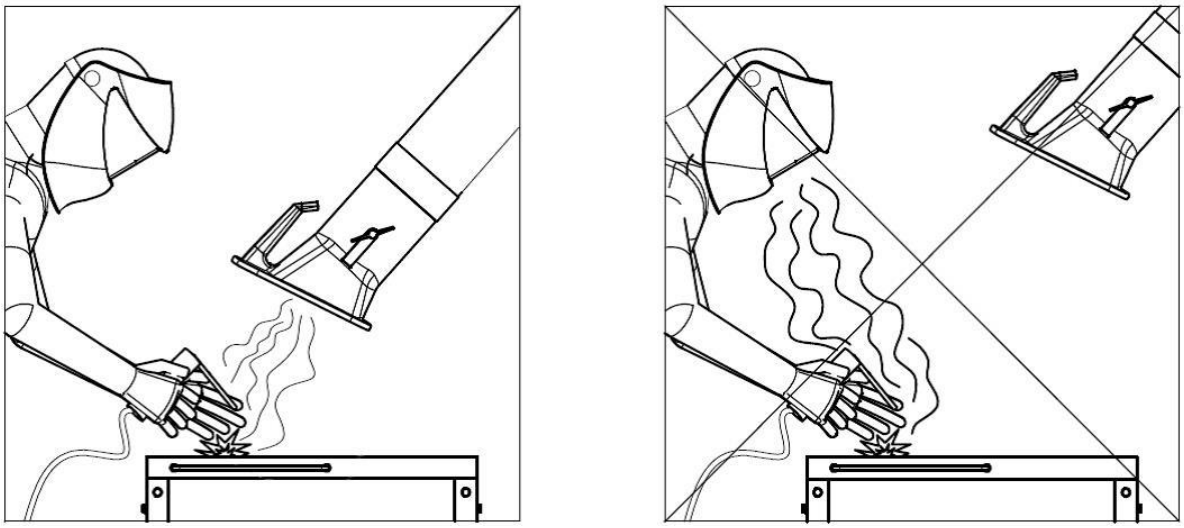


Fig. 20: Positioning the extraction hood

- Position the extraction arm so that the extraction hood is located approx. 25 cm diagonally above the weld.
- The extraction hood must be positioned so that it safely captures the welding fumes, taking into account the movement of welding fumes caused by the heat and the extraction range.
- Always move the extraction hood with respect to the weld position as you advance.

⚠ WARNING

An incorrectly positioned extraction hood or too low an extraction capacity do not ensure that air containing hazardous substances is captured adequately by the extraction hood. This means hazardous substances can enter the area where the operating personnel breathes and cause severe damage to health.

7 Maintenance

The instructions in this chapter are intended as minimum requirements. Depending on the operating conditions, further instructions may be required to keep the product in optimal condition.

The maintenance and repair work described in this chapter must only be performed by specially trained repair personnel of the operating company.

Spare parts used must comply with the manufacturer's specified technical requirements.

This is guaranteed if original spare parts are used.

The safe and environmentally friendly disposal of operating materials and replacement parts must be ensured.

The safety instructions in these operating instructions must be observed during maintenance work.

7.1 Care

The care of the product is essentially limited to cleaning all surfaces of the product and – if present – checking the filter inserts.

The warning notices listed in the chapter "Safety notes for maintenance and fault removal" must be observed.

NOTE

The product may not be cleaned with compressed air. This may result in dust and/or dirt particles getting into the ambient air.

Proper care helps to maintain the product in a continuous functional state.

For optimum care and cleaning of the powder-coated surfaces, the following must be observed:

- Thoroughly clean the product monthly or as needed.
- Clean the exterior areas of the product with a suitable industrial vacuum cleaner of dust classification H or with damp soft cloths/industrial cotton wool.
- For stubborn dirt, use commercially available household cleaners. Avoid vigorous rubbing.
- Do not use any abrasive agents that scratch.
- Do not use any acidic or strongly alkaline cleaning agents.
- Do not use organic solvents containing esters, ketones, alcohols, hydrocarbons or similar.

7.2 Maintenance

Regular inspection and servicing have a positive effect on the reliable functioning of the product and should be done at least once a month.

Please observe the listed warning notices for maintenance listed in chapter “safety”.

⚠ WARNING

Warning of serious personal injury hazard

In the event of misconduct, there is a danger of serious bodily injury, e.g. crushing damage, fingers or hands tearing off due to uncontrolled movements of individual machine elements.

Repair and maintenance work on the product may only be carried out by trained and authorised personnel while complying with the safety rules and the applicable accident prevention regulations.

Maintenance and repair work and troubleshooting must be performed only when the plant is switched off.

7.3 Emergency measures

In case of fire of the product or its detection elements, the following steps should be taken if necessary:

1. Disconnect the product from the mains! If present; pull out mains plug; set main switch to 0-position; disconnect supply fuses.
2. If present, disconnect the compressed air supply.
3. Fight fire with a commercially available dry powder extinguisher.
4. Notify local fire brigade if necessary.

⚠ WARNING

Do not open products with maintenance door. Flash flame formation!

In the event of a fire, do not touch the product under any circumstances without proper protective gloves. Risk of burns!

8 Disposal

⚠ WARNING

Skin contact with welding fumes, etc. can cause skin irritation in susceptible individuals.

Disassembly work on the product may only be carried out by trained and authorised personnel while complying with the safety rules and the applicable accident prevention regulations.

Serious injury to the lungs and respiratory tract is possible!

In order to avoid contact with and inhalation of dust particles, use protective clothing, gloves and a blower respirator system.

The release of hazardous dust particles must be avoided during dismantling work so that persons in the vicinity are not harmed.

⚠ CAUTION

All work on and with the product must comply with the legal obligations for waste avoidance and proper recycling/disposal.

8.1 Plastics

Plastics, if present, must be sorted as far as possible. Plastics must be disposed of in compliance with the legal requirements.

8.2 Metals

Metals, if present, must be separated and disposed of.
Disposal must be carried out by an authorised company.

8.3 Filter elements

Filter elements, if present, must be disposed of in compliance with the legal requirements.

9 Annex

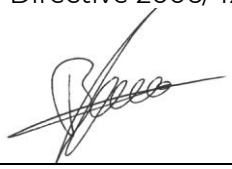
9.1 EU Declaration of Incorporation

Designation:	Add-on product
Series:	Extraction arm 6-10m
Type:	79307, 79308, 79807, 79808, 79409, 79410, 79909, 79910 (possibly different article numbers for other product variants)
Machine ID:	(serial number) see the name plate on the product
	The product has been developed, designed and manufactured as partly completed machinery in accordance with EC directives 2006/42/EC – Machinery Directive
	At the sole responsibility of
Company:	KEMPER GmbH Von-Siemens-Str. 20, D-48691 Vreden
	The partly completed machinery must not be put into service until it has been established that the machinery into which the partly completed machinery is to be incorporated complies with the 2006/42/EC Machinery Directive.

The following harmonised standards are used:
EN ISO 12100:2010 Safety of machinery - General principles for design
EN ISO 13857:2019 Safety of machinery - Safety distances
EN ISO 13854:2019 Safety of machinery - Minimum gaps

A complete list of standards, directives and specifications applied is available from the manufacturer. The operating manual belonging to the product is available.

Authorised representative:
Kemper GmbH, Von-Siemens-Str. 20, 48691 Vreden, Germany
The aforementioned person is authorised to compile the technical documentation in accordance with Annex VII of Directive 2006/42/EC.



Vreden, 07.09.2026		CEO
Place, date	B. KEMPER	Identification of the signatory

9.2 UKCA Declaration of Installation

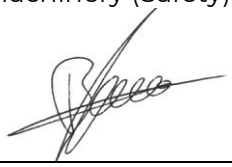
Designation:	Installation products
Series:	Extraction arm 6-10m
Type:	**79307, 79308, 79807, 79808, 79409, 79410, 79909, 79910** (possibly different article numbers for other product variants)
Machine ID:	(Serial number) see type plate on product
	This product is developed, designed and manufactured in accordance with the UKCA directives Supply of Machinery (safety) Regulations 2008
	At the sole responsibility of
Company:	**KEMPER GmbH** Von-Siemens-Str. 20, D-48691 Vreden

The following designated standards and technical specifications have been applied:

BS EN ISO 12100:2010 Safety of machinery - General principles for design
BS EN ISO 13857:2019 Safety of machinery - Safety distances
BS EN ISO 13854:2019 Safety of machinery

A complete list of standards, directives and specifications applied is available from the manufacturer. The operating manual belonging to the product is available.
Additional information:

UK Authorised Representative:
United Kingdom KEMPER (U.K.) Ltd.
Venture Court, 2 Debdale Road, Wellingborough, Northamptonshire NN8 5AA
The above-mentioned person is authorized to compile the technical documentation in Schedule 2 of the Supply of Machinery (Safety) Regulations 2008.



Vreden, 07.09.2026		CEO
Place, date	B. Kemper	Identification of the signatory

9.3 Technical data

Designation m [ft]	Diameter mm [in]	Weight kg [lbs]	Approx. noise level at 1,000 m³/h [CFM]
Extraction arm 6.0 [20]	Ø 150 [5.9]	140 [309]	64 dB(A)
Extraction arm 7.0 [23]	Ø 150 [5.9]	142 [314]	64 dB(A)
Extraction arm 8.0 [26]	Ø 150 [5.9]	145 [320]	64 dB(A)
Extraction arm 9.0 [30]	Ø 150 [5.9]	195 [430]	64 dB(A)
Extraction arm 10.0 [33]	Ø 150 [5.9]	198 [437]	64 dB(A)

Tab. 19: Technical data

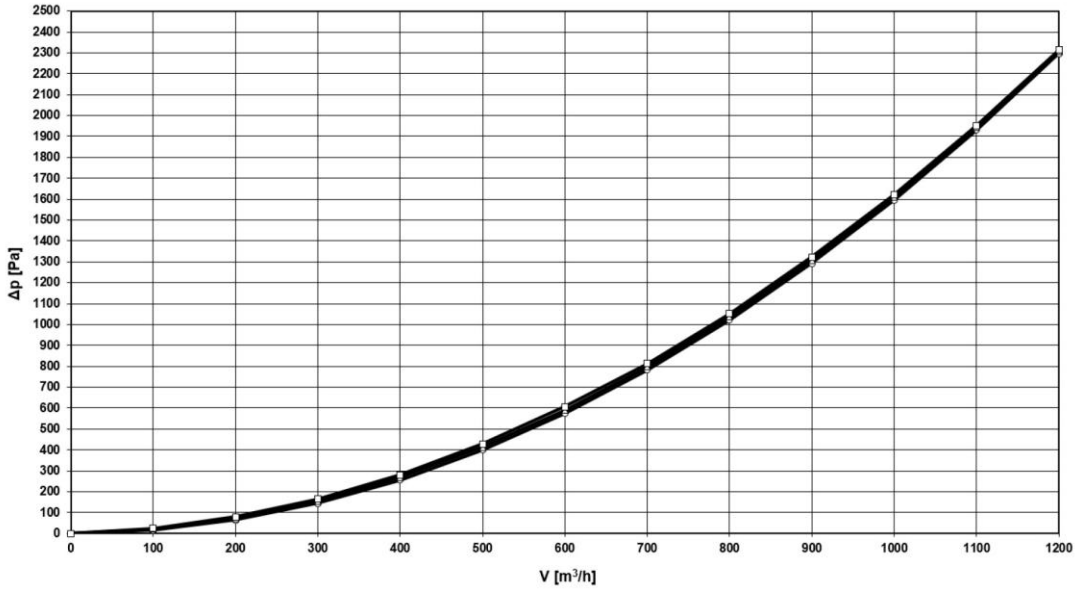


Fig. 21: Pressure Loss Diagram

The pressure loss diagram shows approximate values in a normal working position of the extraction arm, which deviate from the diagram values in practice depending on the positioning of the extraction arm.

9.4 Spare parts and accessories

Description	Article No.
Replacement hose for hinged cantilever arm Length 3.0 m, Ø 165 mm	1140481

Tab. 20: Spare parts

Deutschland (HQ)
KEMPER GmbH
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