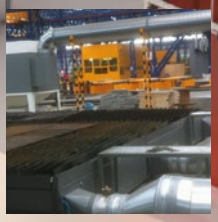
Hoods and occupational safety & health

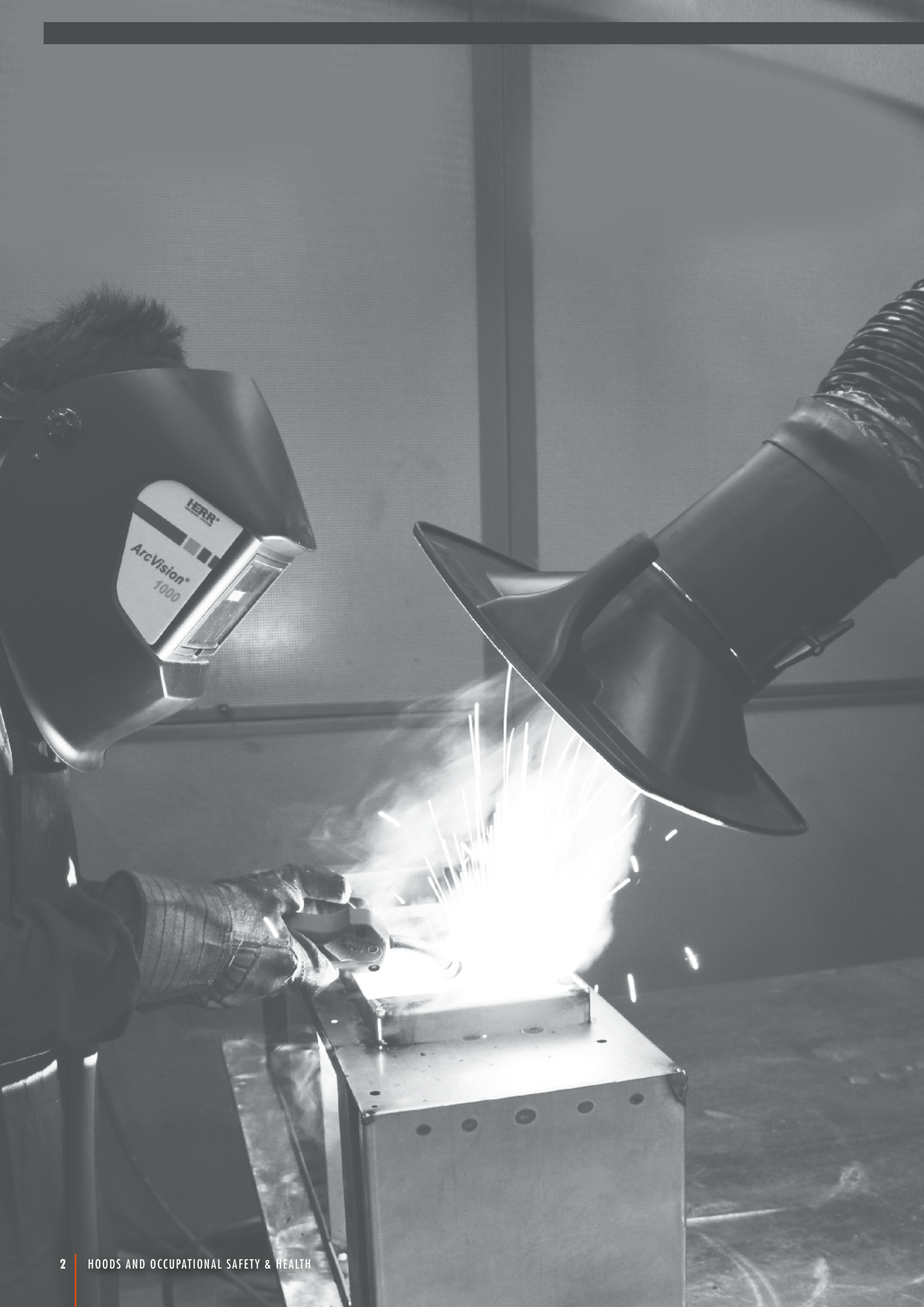


- Extraction arms
- Sliding suction channel
- AirVent extraction hoods
- Welding protection curtains
- Mobile protective screens
- Sound absorbing partition walls

EN

HERR® INDUSTRY SYSTEM


ArcVision
1000

HERR – professional, competent and reliable

Our filter systems exceed legal requirements and thus make a valuable contribution to the protection of your employees and the environment. Our objective is to offer our customers safe and reliable filter systems with an excellent price-performance ratio. Filter systems from HERR filter the finest of dusts despite longest service life and lowest service effort. This helps you keep your investment costs down and reduce costs per workpiece. When you buy a filter system from HERR you can rely on safety, low procurement costs, energy-efficient cleaning technology. durable filter cartridges and minimum service costs.

How do we do it?

- Modern automated production and one-hundred-percent quality control.
- Constant further development of our products in our in-house R&D department.
- Continual and fast implementation of ideas and suggestions for improvement from our customers.
- Consistency in product design: "Form follows functionality." We rely on simplicity in manufacturing and operation.

We from HERR are thus convinced that our filters are the most efficient and durable on the market with the highest safety standard.

How to contact us:

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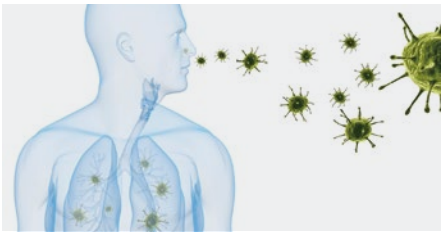
Industrial dust and fumes



What are fumes and dusts?

Dust is a term used for the finest particles swirled in the air which can be suspended for a long time. This suspended particulate matter contains fume and soot particles among other things. Dust can be categorised on the basis of particle size. Particle size has a direct influence how harmful the dust is. Dust particles larger than 10 µm are visible to the naked eye and are termed coarse dust. Particles smaller than 10 µm are termed particulate matter and can easily be inhaled. Particles smaller than 5 µm can no longer be perceived by the naked eye. Particles smaller than 2.5 µm are respirable, in other words they are no longer filtered out by nose hairs and mucous membranes. If particles are smaller than 0.4 µm they can get directly into the blood and accumulate at vessel walls. Dusts with a particle size smaller than 0.1 µm are termed ultrafine particles.

Industrial dust and fumes

Harmful industrial dust and fumes are produced during the machining of metals. In order to protect health, these dust and fumes must be filtered out. The contaminated air is extracted and routed to a filter for cleaning. The type of extraction and filtration depends on the material, the machining process and the dusts, fumes, gases and liquids produced in the process. Contamination in the air is caused in particular by:

- Machining and processing raw material,
- Additives to the raw material – such as e.g. welding fillers,
- Soiling,
- Evaporation,
- Oxidation.

Hazards caused by welding dust and cutting fumes

As described above, the composition of the harmful dusts and fumes depends on the materials and manufacturing process used. Suitable health protection measures are required depending on the composition and concentration. The necessary measures can be derived from laws, directives and ordinances.

According to studies carried out by the German Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA), welding and cutting fume particles measure 0.1 – 1.0 µm. 90 % of the dusts produced are smaller than 0.4 µm. The proportion of dust particles smaller than 0.2 µm is as high as 75.3 %. These particles count as particulate matter and, as already mentioned, they are respirable. They present an extremely high hazard potential for humans. The hazard potential is determined on the basis of the composition of the particles in the exhaust gases, the size of the particles, concentration of the exhaust gases and time the human body is exposed to the exhaust gases (exposition). Studies by pathological institutes show that the industrial exhaust gas pollution damages eyes and skin, leads to respiratory problems and vomiting and can trigger sudden palpitations, stomach pain and fever. Breathing in over longer periods can lead to serious poisoning, organ dysfunction or cancer. Filtering the exhaust gases avoids these damaging effects and protects the health of your employees.

Since different exhaust gases have to be treated in different ways, filter selection is extremely important. Water filters and cyclones can be used for coarse dust e.g. tobacco smoke. The situation is different with cutting fumes, where steel is melted by a plasma torch at 25,000 degrees Celsius. The particulate matter of the size 0.1 µm which occurs here needs finer filtering.

HERR will be happy to help you select a suitable filter for your application.

Filters from HERR

Capacity of HERR filters

HERR uses mechanical filters and specially coated cartridge filters to guarantee safe and reliable filtration in the nano range. The collection efficiency achieved by HERR filters for dusts from a particle size of 0.1 µm is 99.9 %.

The use of electrostatic filters is often the only alternative for cleaning oil exhaust gases or oil mists. Our electrostatic filters achieve a degree of efficiency of 95 % for cleaning oil and dust particles. At the end of the day, which filter is the right one for you depends on the concentration of the oil. If the oil concentration is lower than 5 %, it makes economic sense to use a mechanical filter. For higher oil concentration we recommend the use of electrostatic filtration to clean the exhaust gases.

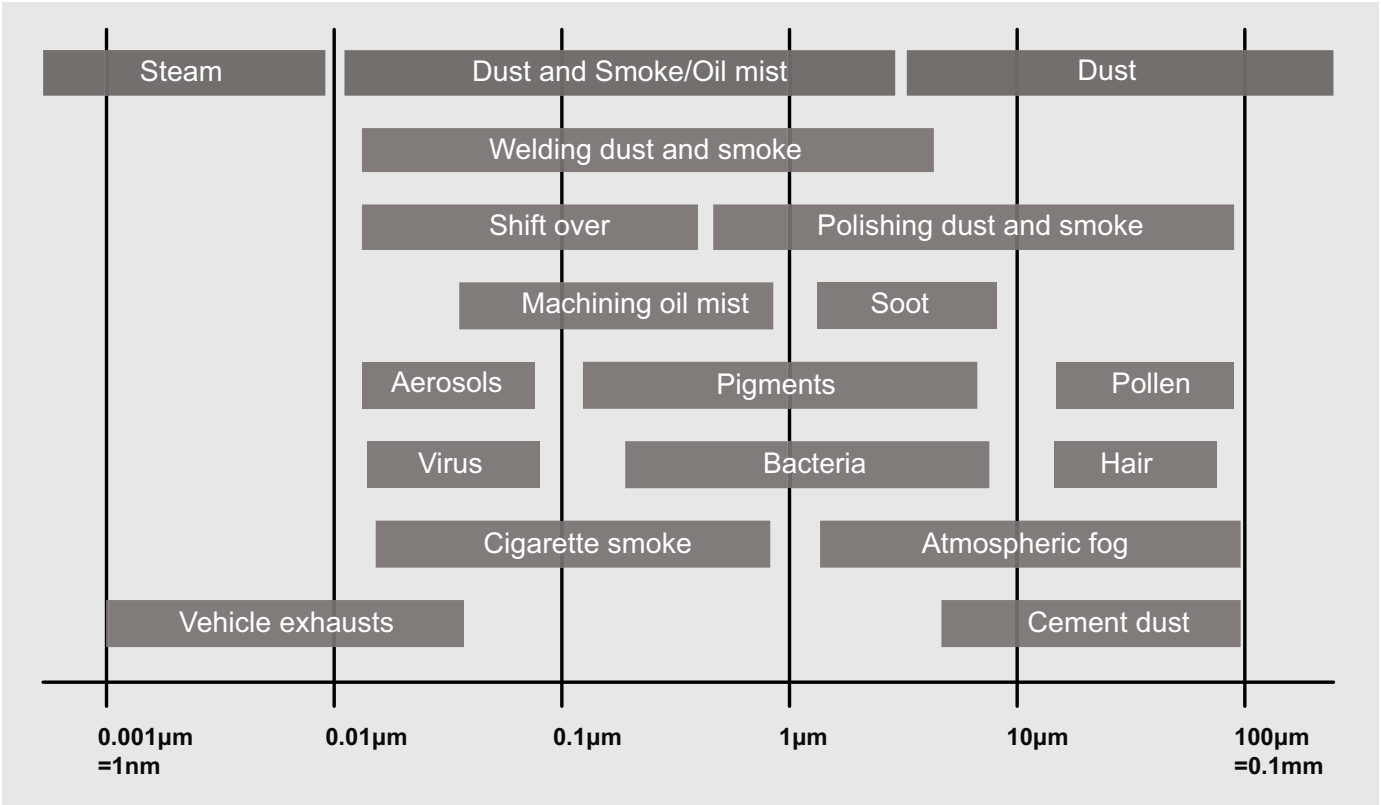
Grinding dust, welding dust and vehicle exhaust gases contain comparatively large particles. These can be removed by mechanical systems in which both pre-filters and fine filters are fitted.

These exhaust gases often also tend to have an unpleasant odour. In this case, activated carbon filters can be used to eliminate the odours.

The modular structure of HERR filter systems makes it possible to cater to your special requirements and fulfil these cost-efficiently.

Extremely fine dusts are produced during plasma- and laser-cutting. To filter these out efficiently, HERR has developed its own coated ePTFE filter membrane known as HISTec®. This laminated membrane coating is extremely effective and filters out particles smaller than 0.1 µm. It also allows almost 100 % filter cleaning, which means that the filter material is restored to its original state. A special air purging system is used to clean the filter off, thus minimising the mechanical load on the filter surface. The dust is not accumulated in the filter material, it accumulates on the outer skin of the filter. This allows it to be cleaned off and collected easily, in an energy-efficient way and quietly.

As protection against potentially explosive dusts, HERR can install explosion-reducing components in the filter systems and pipes. In the event of an explosion, damage to machines and systems is thus minimised. It may be possible to install other possibilities for explosion-reducing components such as e.g. water filters. Talk to your HERR consultant about your requirements.



Why a HERR filter?

These days, companies face global competition. This means that in high-wage countries such as Germany, Austria or Switzerland in particular, they are forced to optimise and rationalise internal processes even further in order to increase productivity and remain competitive. Filter systems from HERR support you in three different ways: Firstly, the comparatively low investment and servicing costs reduce the costs per workpiece. Secondly, they protect your employees' health, which leads to noticeably lower absence and illness. Thirdly, they ensure that official requirements are not only met but are exceeded.

HERR is ready to work with customers to turn new ideas into innovative products and develop customer-specific solutions. We strive to achieve perfection and rely on customer feedback for this. We not only listen to you, we implement your ideas! HERR doesn't only deliver the right filter system for your application, if required we can also install systems, pipes and extraction hoods on site. Exhaust gas control, air measurements, consultation, project planning, design, training, repairs and service are all part of our day-to-day business.

Selection of the right filter

The welding process has become indispensable in the metal industry. However, the gases and fumes produced during welding should be avoided due to the resulting health hazard. The type of process involved makes avoidance extremely difficult or limited. This is why, for reasons of health protection and efficiency, the harmful dusts and fumes are extracted as close as possible to where they occur, then the air-pollutant mixture is filtered and the cleaned air is returned to the environment.

Inert gas welding of non-alloyed steels (structural steel) is the method often used. In contrast to the welding of non-alloyed steels, oily fumes are often produced when extruded components are welded. In addition, unpleasant odours often occur during the welding of aluminium or soldering work. In order to do justice to the different requirements, HERR produces numerous filter systems for different applications:

- Mechanical filter systems are flexible to use and suitable for the elimination of the types of fumes and dusts which occur most frequently. Customisation in various types and levels of filtration are possible here, too.
- High-vacuum extraction in combination with extraction torches and small extraction nozzles are a very good way of extracting welding fumes immediately where they occur.
- The ePTFE membrane filter is the best solution for large quantities of dust. These filters are extremely robust and have a long service life. Cleaning is carried out by automatic cleaning nozzles controlled by differential pressure.
- Electrostatic filter systems are used for the filtration of oily fumes and dust. They can be combined with mechanical pre- and post-filters. A combination with an activated carbon filter to absorb unpleasant odours is also possible.
- Low- and medium-pressure systems on the other hand allow large volumes of air to be cleaned. Filter systems switched in series achieve an extraction capacity of up to 100,000 m^3/h.

The central filter systems from HERR have been developed for numerous different applications and circumstances at the customer's. The filters have outstanding spark protection as standard. They have a modular design, making expansion or retrofitting relatively easy.

We offer a complete product range for your production line. Accessories such as extraction arms, extraction and grinding tables, extraction hoods and other professional options for dust collection are available from HERR on request. Contact us.

Filter selection – overview

Here is an overview of the selection criteria for a HERR filter systems for welding fumes, cutting fumes and other types of dust and fumes:

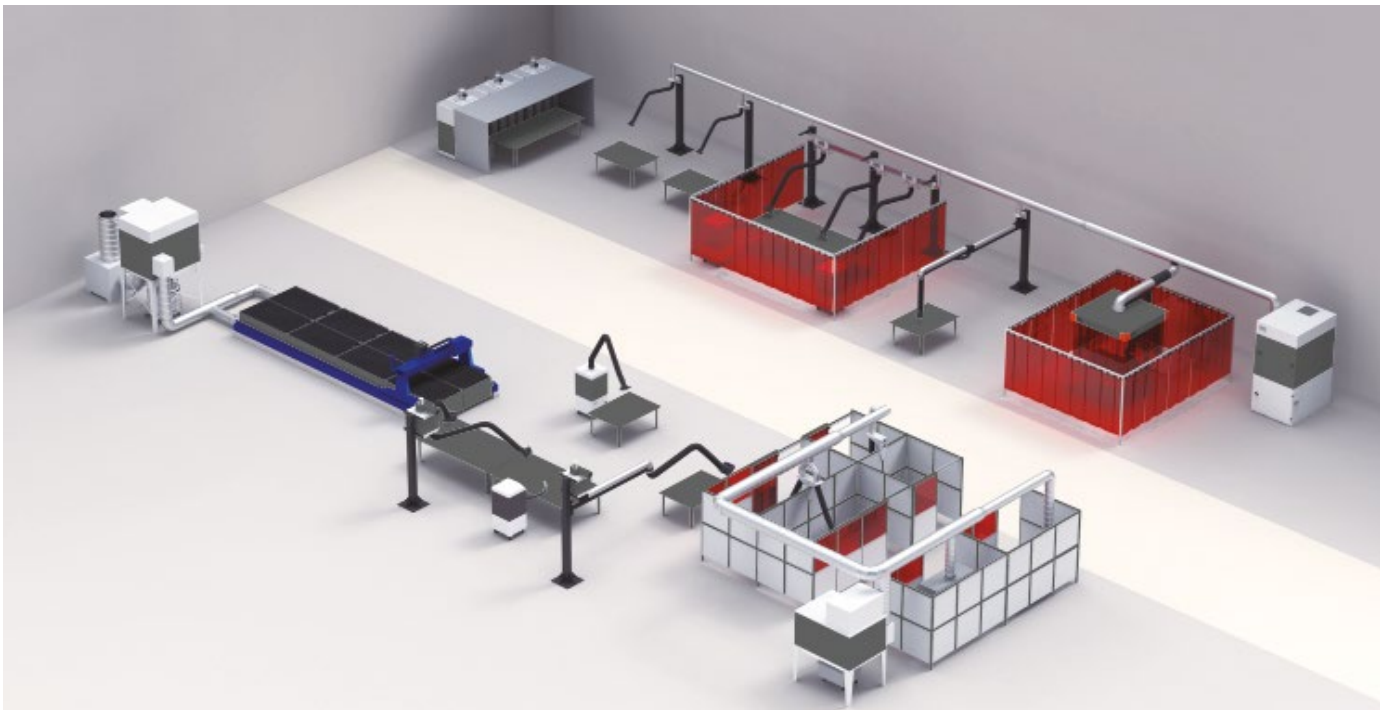
According to type of filtration:
- Mechanical
- ePTFE membrane filter
- Electrostatic

According to extraction volume:
- Single units
- Central filter systems

According to fan pressure:
- Low pressure
- Medium pressure
- High pressure/high vacuum

According to structure and installation:
- Stationary
- Mobile
- Central extraction system 600 series
- Central extraction system 610 series
- Central extraction system 880 series

Collection elements:
- Extraction arms
- Extraction tables/side extractors
- Grinding tables (cutting/polishing)
- Extraction hoods
- Workshop extraction systems
- Sliding suction channels
- Fans and pipes
- Customer-specific elements



600 series

610 series

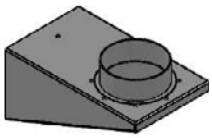
880 series

Extraction arms

Flexible extraction arms

The flexible extraction arms from HERR can be mounted standing or hanging. They guarantee simple, ergonomic and effective use. In practice, it is necessary to adapt the extraction position and extraction angle to the welding work in progress. The flexible extraction arm has long-lasting joints installed which do justice to the requirements of frequent pulling and pushing which occur.

The extraction arm can be adapted to on-site ambient conditions by choice of a suitable extraction hood. Tapered extraction hoods are best suitable for collecting smoke from a larger area, while funnel-shaped hoods are more suitable for extraction concentrated in one place. Flexible extraction arms are available in the lengths 2 m, 3 m and 4 m.



Article number	Description
710201-170	Extraction arm with hood, 2m, 17 kg hanging
710301-170	Extraction arm with hood, 3m, 21 kg hanging
710401-170	Extraction arm with hood, 4m, 24 kg hanging
HI440028	Wall bracket for extraction arm Ø 170mm

Telescopic extraction arms from HERR

The telescopic extraction arms from HERR were specially developed for extracting welding smoke in small working areas such as welding schools and training centres. The telescopic extraction arm requires very little space and provides maximum flexibility. It comprises a frame with two scalable metal pipes. The arm can easily be mounted on the hall wall or a HERR welding booth using mounting brackets. The extraction arms are available in the lengths 1.5 m and 2 m. Extraction arms in length 1.5 m have a telescopic range of 1,050 to 1,500 mm. Extraction arms in length 2 m have a telescopic range of 1,300 to 2,000 mm.

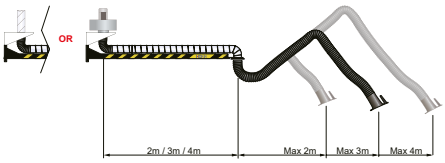
Article number	Description
750101-170	Telescopic arm with hood, 1.5 m, 170 mm, 15 kg
750102-170	Telescopic arm with hood, 2.0 m, 170 mm, 17 kg
HI440028	Wall bracket for extraction arm Ø 170mm

Extraction arms

Extraction solutions for larger distances

In order to cover larger distances, rigid, flexible and telescopic extraction arms can be boosted by a support beam mounted on the wall or a column. The support beam is available with one or two joints. The folded spiral pipe mounted on the lightweight, balanced support beam is made of high-quality galvanised steel. While the support beam can be pivoted through up to 180°, the extraction arm connected can be turned flexibly through up to 360°, thus covering all intermediate spaces and angles perfectly.

The support beam is available in the lengths 2 m, 3 m and 4 m. Flexible extraction arms in the lengths 2 m, 3 m and 4 m can be mounted. The radius of the extraction system is thus increased to up to 8 m. In connection with a telescopic extraction arm, a support beam in the lengths 4 m, 5 m and 6 m is available. In addition, the support beam can be extended by a further 4 m, 5 m and 6 m. In the extended version it has a further joint. In this case, the range of the extraction system is increased to up to 12 m.



Article number	Description
710502-01-170	5 m extraction arm with hood (2 m support beam + 3 m extraction arm) 77 kg
710503-01-170	5 m extraction arm with hood (3 m support beam + 2 m extraction arm) 79 kg
710602-01-170	6 m extraction arm with hood (2 m support beam + 4 m extraction arm) 81 kg
710603-01-170	6 m extraction arm with hood (3 m support beam + 3 m extraction arm) 84 kg
710703-01-170	7 m extraction arm with hood (3 m support beam + 4 m extraction arm) 89 kg
710704-01-170	7 m extraction arm with hood (4 m support beam + 3 m extraction arm) 92 kg
710804-01-170	8 m extraction arm with hood (4 m support beam + 4 m extraction arm) 96 kg

Slide-rail extraction

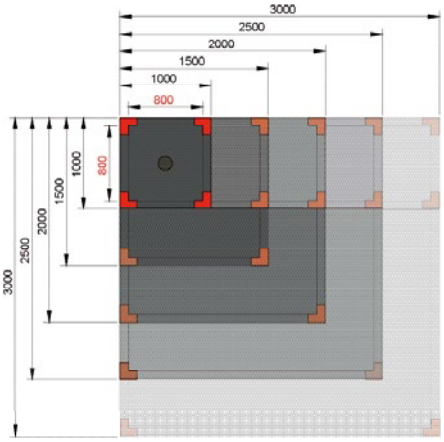
Slide-rail extraction is used when welding work requires precise but linear flexible extraction. The slide-rail extraction consists of an aluminium channel with inlaid rubber lips, a sliding carriage with mounted fitting, extraction arm and extraction hood. The channel is connected to a fan or central cartridge filter system. The sliding carriage is guided vertically or horizontally across the aluminium extraction channel. The connector is mounted between the channel's rubber lips. The inlaid rubber lips are drawn together by the vacuum produced during suction. This closes the channel. The connector pushes the rubber lips apart and creates a gap through which the contaminated air is drawn through the extraction arm into the channel. The contaminated air is routed through the channel via a pipe system into a filter system or to the outside. The combination of linear movable carriage and flexible extraction arm guarantees efficient, precise extraction along a straight line.

Article number	Description
Upon request	

AirVent extraction hood

The AirVent extraction hood is available in different sizes. Thanks to its modular design and the use of standard components, it is possible to offer a high-quality extraction hood at a fair price.

The AirVent hood is ideal for extraction at manual and automatic workstations. This hood is often used in combination with an extraction unit of the 880 series for individual robot welding workstations. AirVent extraction hoods can also be used efficiently with a central system of the 600 or 610 series. Several extraction hoods or a combination of extraction hoods and extraction arms can be connected to a filter system. Depending on the variant, AirVent extraction hoods are made of a double-walled, extremely lightweight riveted steel or aluminium sheet. The modules are pre-assembled in our factory so that they can easily be connected at the facility and brought into position.



A vacuum is created along the edges of the extraction hood which collects rising fumes and dusts effectively. The contaminated air is routed to the centre of the extraction hood, where the connection to the pipeline is located. The hood design favours the efficient collection of contaminated air, it only requires a low suction volume. The hood can be mounted on a stand or suspended using eyelets.

Depending on the working process and installation height, protective curtains of different lengths can be fixed in place. The protective curtain prevents sparks and metal spatter endangering workers or machines nearby, protects against UV and IR beams and also supports the extraction or dissipation of the fumes and dusts. AirVent extraction hoods are available in the sizes 800 mm x 800 mm to 3,000 mm x 3,000 mm. Several modules can be used next to one another to cover larger areas. We can equip the hoods with electricity or lighting if required. Individual, customer-specific solutions are possible. We can tailor-make a hood for you!

Advantages:

- Efficient protection of people and machinery
- Lightweight modular design
- Simple mounting
- Low energy requirement
- Individual adaptation possible
- Welding curtains and other fastening materials are available as options

AirVent extraction hood

Article number*	Description
HH010010	AirVent extraction hood 1.000 x 1.000 mm
HH010015	AirVent extraction hood 1.000 x 1.500 mm
HH015015	AirVent extraction hood 1.500 x 1.500 mm
HH010020	AirVent extraction hood 1.000 x 2.000 mm
HH015020	AirVent extraction hood 1.500 x 2.000 mm
HH020020	AirVent extraction hood 2.000 x 2.000 mm
HH010025	AirVent extraction hood 1.000 x 2.500 mm
HH015025	AirVent extraction hood 1.500 x 2.500 mm
HH020025	AirVent extraction hood 2.000 x 2.500 mm
HH025025	AirVent extraction hood 2.500 x 2.500 mm
HH010030	AirVent extraction hood 1.000 x 3.000 mm
HH015030	AirVent extraction hood 1.500 x 3.000 mm
HH020030	AirVent extraction hood 2.000 x 3.000 mm
HH025030	AirVent extraction hood 2.500 x 3.000 mm
HH030030	AirVent extraction hood 3.000 x 3.000 mm
HH100020	Stand, H = 2.000 mm, for extraction hood
HH100025	Stand, H = 2.500 mm, for extraction hood
HH100030	Stand, H = 3.000 mm, for extraction hood
HH100035	Stand, H = 3.500 mm, for extraction hood
HH100040	Stand, H = 4.000 mm, for extraction hood
HH100045	Stand, H = 4.500 mm, for extraction hood

*Available in different versions

AirVent extraction hood
Steel version

Case study robot welding

During welding with robots, situations can occur where heavy or large components have to be handled by crane. HERR offers customer-specific solutions for these, too. A mechanical arm can turn the AirVent extraction hood electronically in order to clear the loading and unloading area of the robot.

An AirVent extraction hood with electrical rotary arm is an ideal solution. The right hood size can be attached depending on the size of the workpiece and requirements made on extraction. The general design of the arm is such that the hood is positioned in the optimum position to guarantee balance and optimum cover of the target area.

The optional curtain around the hood can be adapted to different lengths. This can make it easier to use, especially if the hood has to be repositioned frequently. Even if the hood is suspended somewhat higher above the working area for reasons of accessibility, the curtains ensure that the welding fumes are directed upwards and do not escape to the sides.

However, care must always be taken that the hoods are not suspended too high, since welding fumes only rise by a maximum of three or four metres and then cool down so much that the particles fall to the ground again.

Manual welding applications

The rotating AirVent extraction hood for manual welding offers the possibility of extracting welding fumes at large components with an extraction hood in a similar way to the robot solution described above. Component handling by crane plays an important role here, too, so that a pivoting hood is often a good solution for clearing the workstation for loading and unloading.

If you have any questions about customised solutions, please ask your HERR consultant for an application-specific consultation.

AirVent Light extraction hood
Aluminium version

In some large production facilities, automatic welding by welding robot requires large travel. Sometimes it is advantageous to fasten a small extraction nozzle, which is connected to a high-vacuum system, to some robot arms. In some cases, however, the structure of the workpiece prevents this. In these cases, a movable AirVent extraction hood is an attractive option. Thanks to its light weight, the extraction hood is easy to manoeuvre.

It is the ideal extraction solution for extracting exhaust gases produced by automated welding with robots.

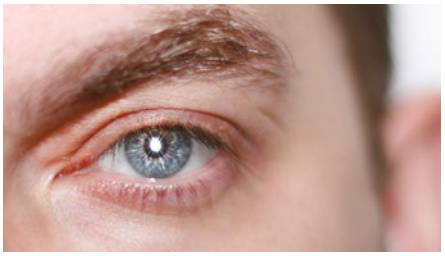
HERR is very familiar with the large welding robot systems of globally operating manufacturers. We have a lot of experience in the design of non-standardised extraction hoods and the complete implementation of these systems.

Special extraction hood
Rigid mounting

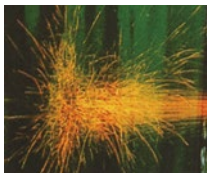
The continual expansion of the production scope makes continual improvement of equipment and safety requirements necessary. The design of the AirVent extraction hood not only improves the extraction possibilities, it also improves the way production can be designed more efficiently. The universal, multi-functional design allows customers to improve the way they weld and manufacture products. The AirVent extraction hood provides more opportunities for optimising and improving systems with future extensions. If we consider manual welding for a moment, the AirVent hood allows workers to walk around a workpiece and not be limited by hoses or having to reposition the extraction arms frequently.

With the continuous development of welding technology, HERR extraction solutions help you plan for the future today!

Protective curtains



Welding processes which produce hazardous ultraviolet (UV) and infrared (IR) beams represent a hazard for workers nearby. Occupational safety and health regulations therefore stipulate that premises, facilities and work processes must comply with the relevant regulations and requirements. HERR welding curtains, aluminium safety protective shields, sound-proofing partitions and other protection systems comply with the DIN EN 1598 standard and offer optimum protection for welding with a risk factor < 1. The curtains not only protect workers effectively against UV and IR radiation, but also against grinding and welding spatter.



Spark- and lame-resistant

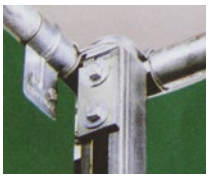
Connection by press studs

Wall attachment

Ceiling attachment

Simple mounting

Ceiling attachment



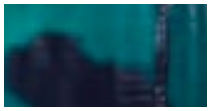
Corner post

Movable C-rails protective curtains

HERR only uses high-quality materials for the production of welding protection curtains. The welding curtains are available in 1.5 m and 2 m formats. They can be connected to one another by press studs. The curtains are hung on slide rails or 1 inch round tubes or hooks. They can also be used together with movable protection screens, drawable curtains, automatic lifting systems, level control systems etc. Louvres (strips) are available in the colours dark green, light green, brown, red and transparent. Transparent welding curtains can be used to separate workstations from one another, as protection against welding spatter and to reduce noise. However, transparent welding curtains do not provide protection against UV or IR radiation. Dark green, light green, brown or red welding curtains must be used as protection against the intensive radiation of the welding arc. Curtains in other colours are not permitted!

dark green RF 0,05

red RF 0,8



light green RF 0,4

transparent

brown RF 0,7

Protective curtains

Mobile protective screens

The mobile protective screens from HERR are ideal for temporary and dynamic workstations. Four replaceable wheels with stoppers enable the shields to be moved easily. The protective screens are 2 m wide and 2 m high and have a sturdy design. Floor clearance is 200 mm, adaptation is possible.

Pivoting sliding doors & fixed curtains

HERR offers a comprehensive range of curtains: sliding, pivoting or permanently mounted curtains protect workers' eyes from light arcs and offer various possibilities for separating workstations. The width of the pivoting doors can be up to 6 m, customer-specific solutions are available on request.

Telescopic sliding doors

Quite often it is not possible, safe or practical to lift workpieces over partitions. In such cases, extendable telescopic sliding doors create safe and simple access to the workstation.

Protective window frame designs

Protective windows from HERR are fitted in a sturdy aluminium frame. They are lightweight, modular and easy to install. Protective windows provide optimum protection for the eyes combined with a clear view of the work process. They are mainly used in automated welding processes. Like the curtains from HERR, the protective windows are available in a transparent or coloured version. The aluminium frame can be adapted to the on-site circumstances. Extension at a later date is possible.

Pleated curtains

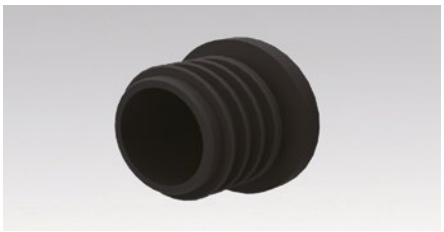
Pleated curtains can be opened to up to 8 m on an extendable wire cable. The curtain is easy to stow away when it is not in use.

Components for attachment with 1“ tube system

1“ components which are used to hang up welding curtains, strip curtains and sliding curtains.

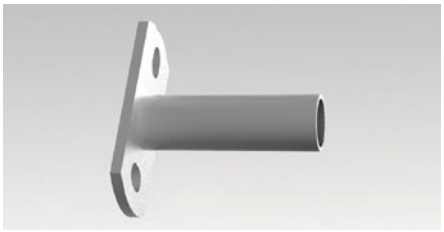
Article number	Description
530090200	1“ tube, galvanised, 2 m long

Article number	Description
530090001	Tube connector for 1“ tube interior, black plastic with steel insert

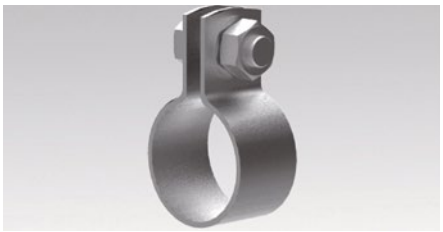


Article number	Description
530090002	End cap for 1“ tube, PVC, black

Article number	Description
530090101	Wall and ceiling bracket for 1“ tube, galvanised, incl. clip and screw



Article number	Description
530090102	Wall attachment for 1“ tube incl. fastening material



Article number	Description
530090201	Tube clip

Article number	Description
530090202	Slide with two ball-bearing rollers and a tube clip suitable for 1“ tube

Components for attachment with 1“ tube system

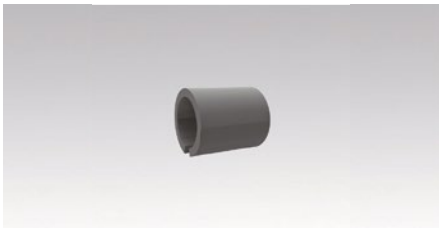
1“ components which are used to hang up welding curtains, strip curtains and sliding curtains.

Article number	Description
530090301	Plastic runner with hook (for strip curtains)

Article number	Description
530090311	Spring clamp, 10 pcs/bag (for welding protection curtains)
530090312	Spring clamp, 13 pcs/bag (for welding protection curtains)
530090313	Spring clamp, 50 pcs/bag (for welding protection curtains)

Article number	Description
531090321	Strong plastic hook, 10 pcs/bag (for welding protection curtains)
531090322	Strong plastic hook, 13 pcs/bag (for welding protection curtains)
531090323	Strong plastic hook, 50 pcs/bag (for welding protection curtains)

Article number	Description
531090401	Spacer for 1“ tube (for strip curtains)

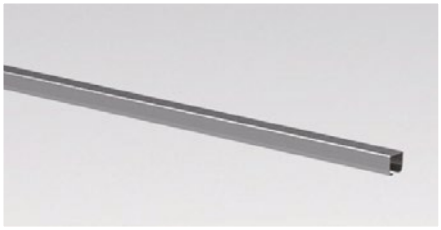


Article number	Description
531090402-SIN	Suspension clip for a 1“ tube including attachment nuts and bolts. 33% overlap of curtains

Article number	Description
531090411	Tube clip for 1“ tube (for strip curtains)

Components for attachment with C-profiles

C-profiles are very popular for hanging welding curtains.



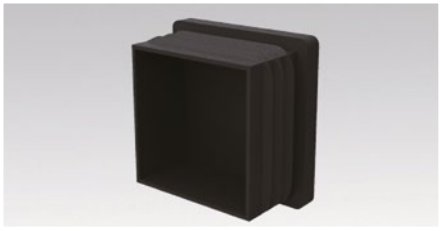
Article number	Description
532090200	C-profile, galvanised, 40x40x2.5mm, 2 m in length
532090300	C-profile, galvanised, 40x40x2.5mm, 3 m in length

Article number	Description
532000040	90° elbow for C-profile, galvanised, radius 400 mm
532000100	90° elbow for C-profile, galvanised, radius 1000 mm

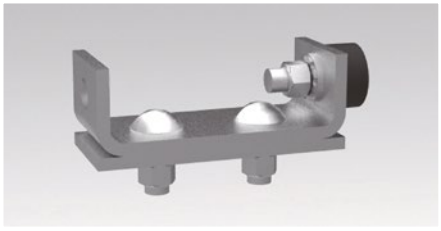
Article number	Description
532090101	Straight connector for C-profile, galvanised

Article number	Description
532090102	L-connector, galvanised

Article number	Description
532090103	T-connector, galvanised



Article number	Description
532090108	End cap for C-profile

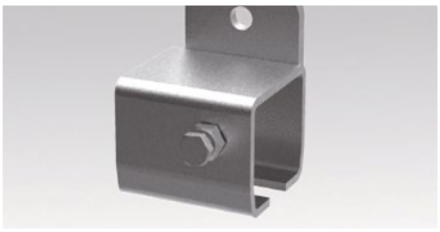


Article number	Description
532090107	End stop for C-profile

Components for attachment with C-profiles

C-profiles are very popular for hanging welding curtains.

Article number	Description
532090201	Side wall attachment for C-profile, galvanised



Article number	Description
532090202	Side wall attachment for double C-profile, galvanised

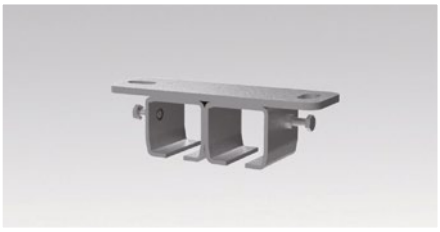
Article number	Description
532090203	Side wall attachment for triple C-profile, galvanised

Article number	Description
532090301	Wall attachment for C-profile, galvanised

Article number	Description
532090302	Wall attachment for double C-profile, galvanised

Article number	Description
532090401	Ceiling attachment for C-profile, galvanised

Article number	Description
532090402	Ceiling attachment for double C-profile, galvanised

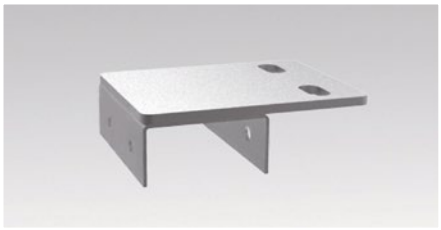


Components for attachment with C-profiles

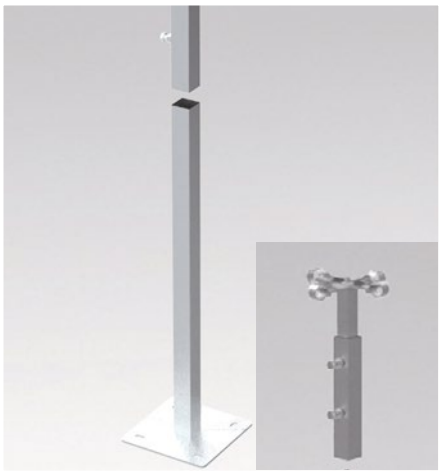
Rail systems for the attachment of C-profiles are for hanging welding curtains.

Article number	Description
532090501	Universal rail fastener for C-rail

Article number	Description
532090601	Two-sided bracket for C-rail, galvanised (use for sound-insulating wall)



Article number	Description
532090602	One-sided bracket for C-rail, galvanised (use for sound-insulating wall)



Article number	Description
Upon request	Stand, X-shaped, for C-rail system, with bracket, height-adjustable 2,000 to 3,500 mm
Upon request	Stand, X-shaped, for 1" pipe, with bracket, height-adjustable 2,000 to 3,500 mm
Upon request	Stand, X-shaped, for tube clip, with bracket, height-adjustable 2,000 to 3,500 mm

Article number	Description
Upon request	Stand, T-shaped, for C-rail system, height-adjustable 2,000 to 3,500 mm
Upon request	Stand, T-shaped, for 1" pipe, height-adjustable 2,000 to 3,500 mm
Upon request	Stand, T-shaped, for tube clip, height-adjustable 2,000 to 3,500 mm

Frame posts and columns

The columns can support the C-rail system or 1" pipe. Customer-specific solutions are available.

Article number	Description
533090003	Stand, L-shaped, for C-rail system, height-adjustable 2,000 to 3,500 mm
533090013	Stand, L-shaped, for 1" pipe, height-adjustable 2,000 to 3,500 mm
Upon request	Stand, L-shaped, for tube clip, height-adjustable 2,000 to 3,500 mm

Article number	Description
533090004	Stand, I-shaped, for C-rail system, height-adjustable 2,000 to 3,500 mm
533090014	Stand, I-shaped, for 1" pipe, height-adjustable 2,000 to 3,500 mm
Upon request	Stand, I-shaped, for tube clip, height-adjustable 2,000 to 3,500 mm

Article number	Description
533090005	Stand, topper, for C-rail system, height-adjustable 2,000 to 3,500 mm
533090015	Stand, topper, for 1" pipe, height-adjustable 2,000 to 3,500 mm
Upon request	Stand, topper, for tube clip, height-adjustable 2,000 to 3,500 mm

Mobile protective screens

The mobile protective screens from HERR are ideal for temporary and flexible workstations. They have a sturdy design and are suitable for mobile applications thanks to their four wheels. The wheels can be removed for better stability. Floor clearance is 200 mm. Adaptations in accordance with customer wishes are possible.

Mobile protective screens with welding curtains 2,000 x 2,000 mm

Article number	Description
540001000	Mobile protective screen, with red welding curtains
540002000	Mobile protective screen, with dark-green strip curtains
540003000	Mobile protective screen, with light-green strip curtains
540004000	Mobile protective screen, with brown strip curtains
540005000	Mobile protective screen, with transparent strip curtains

Mobile protective screens with strips 2,100 x 1,950 mm

Article number	Description
540001033	Mobile protective screen, with red louvre strips, 33 % overlap
540001066	Mobile protective screen, with red louvre strips, 66 % overlap
540001100	Mobile protective screen, with red louvre strips, 100 % overlap
540002033	Mobile protective screen, with dark-green louvre strips, 33 % overlap
540002066	Mobile protective screen, with dark-green louvre strips, 66 % overlap
540002100	Mobile protective screen, with dark-green louvre strips, 100 % overlap
540003033	Mobile protective screen, with light-green louvre strips, 33 % overlap
540003066	Mobile protective screen, with light-green louvre strips, 66 % overlap
540003100	Mobile protective screen, with light-green louvre strips, 100 % overlap
540004033	Mobile protective screen, with brown louvre strips, 33 % overlap
540004066	Mobile protective screen, with brown louvre strips, 66 % overlap
540004100	Mobile protective screen, with brown louvre strips, 100 % overlap
540005033	Mobile protective screen, with transparent louvre strips, 33 % overlap
540005066	Mobile protective screen, with transparent louvre strips, 66 % overlap
540005100	Mobile protective screen, with transparent louvre strips, 100 % overlap

Mobile protective screens

The mobile welding protection screen with beam supports on both sides has an overall width of 3,700 mm, which includes a wide main curtain and two pivoting side curtains. The height is approx. 2,000 mm. Adaptations in accordance with customer wishes are possible.

Mobile three-section protective screen with curtains 3,700 x 1,950 mm

Article number	Description
541001000	Mobile three-section protective screen with red curtains
541002000	Mobile three-section protective screen with dark-green curtains
541003000	Mobile three-section protective screen with light-green curtains
541004000	Mobile three-section protective screen with brown curtains
541005000	Mobile three-section protective screen with transparent curtains

Mobile three-section protective screen with strips 3,700 x 1,950 mm

Article number	Description
541001033	Mobile three-section protective screen, with red louvre strips, 33 % overlap
541001066	Mobile three-section protective screen, with red louvre strips, 66 % overlap
541001100	Mobile three-section protective screen, with red louvre strips, 100 % overlap
541002033	Mobile three-section protective screen, with dark-green louvre strips, 33 % overlap
541002066	Mobile three-section protective screen, with dark-green louvre strips, 66 % overlap
541002100	Mobile three-section protective screen, with dark-green louvre strips, 100 % overlap
541003033	Mobile three-section protective screen, with light-green louvre strips, 33 % overlap
541003066	Mobile three-section protective screen, with light-green louvre strips, 66 % overlap
541003100	Mobile three-section protective screen, with light-green louvre strips, 100 % overlap
541004033	Mobile three-section protective screen, with brown louvre strips, 33 % overlap
541004066	Mobile three-section protective screen, with brown louvre strips, 66 % overlap
541004100	Mobile three-section protective screen, with brown louvre strips, 100 % overlap
541005033	Mobile three-section protective screen, with white louvre strips, 33 % overlap
541005066	Mobile three-section protective screen, with white louvre strips, 66 % overlap
541005100	Mobile three-section protective screen, with white louvre strips, 100 % overlap

Sound absorbing partition walls

The sound-absorbing partitions from HERR are made of a modular frame structure which is easy to produce. They can easily be adapted to on-site circumstances and extended if necessary. The partitions are also extremely sturdy and allow installation of the extraction pipes on the intermediate walls.

It is advisable to match filter system and workstation design to one another in the planning phase.

HERR helps you to design efficient workstations. Depending on the number of workstations planned and the load to be expected, energy costs can be effectively reduced by using a frequency-controlled filter system, for example. Do you want to be prepared for future growth? HERR will be happy to help you with designing a future-proof filter system.

On request, HERR offers a complete system comprising:

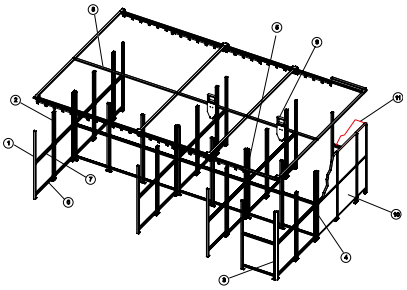
- Central filter system
- Automatic control by frequency converter with pressure sensor
- Automatically opening and closing valves and flaps
- Extraction arms, hoods for welding or plasma cutting
- Cutting tables, grinding tables with integrated connection for the extraction system
- Sound-absorbing partitions
- Protective curtains and windows
- Pipelines

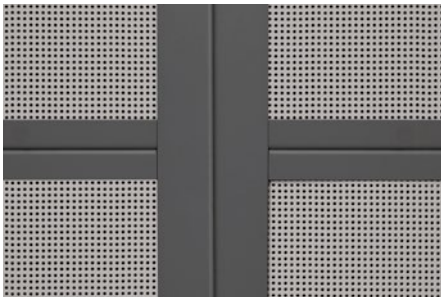
Sound absorbing partition walls

As a professional manufacturer of occupational safety and health and workstation equipment, we will be happy to help with the layout and design of your workstations. Consultation, drawing as well as design and equipment – all from a single source.

Modular design perfectly matched to your application and outstanding quality at a fair price.

The perforated wall elements for noise reduction are 1,000 mm x 1,000 mm x 50 mm in size. Their surface is made of perforated sheet steel. The perforation supports sound absorption. The inner side of the wall elements is made of pressed glass wool in accordance with DIN 4102. All the components are powder-coated making them UV-resistant.





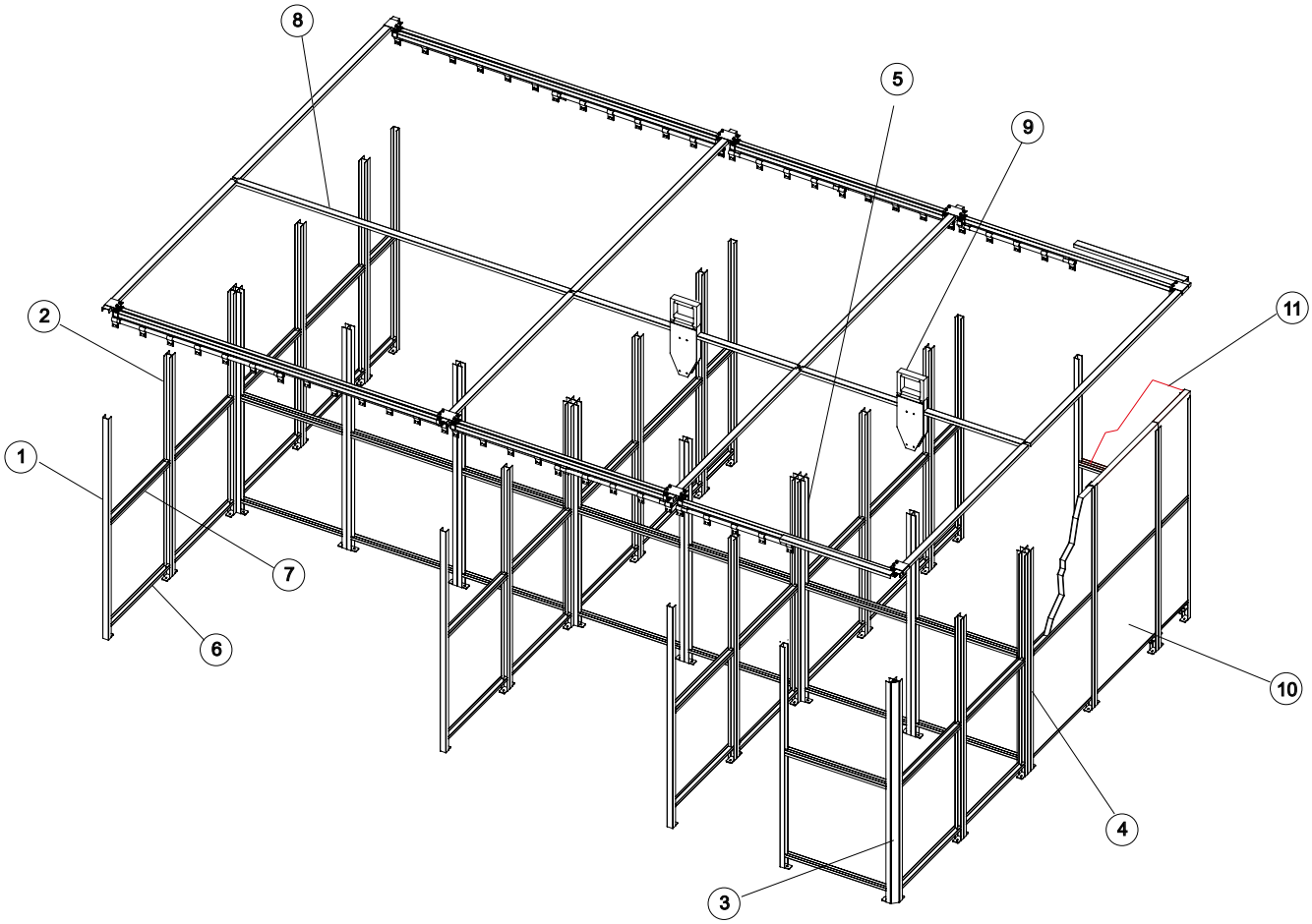
The welding booths can be set up with telescopic extraction arms from HERR including welding and grinding tables. The arms and tables are available in different sizes. Power sockets and gas lines can easily be attached to the sturdy wall elements.

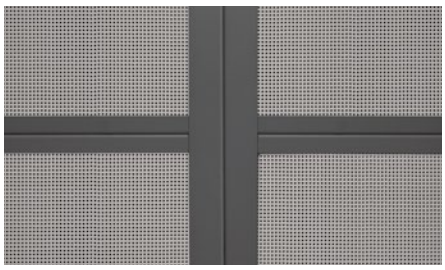
Sliding doors are recommended in connection with partitions from HERR. They permit workers to see into the booth while providing effective protection against UV / IR radiation, sparks, welding and metal spatter. It goes without saying that protective curtains can be used in place of sliding doors.

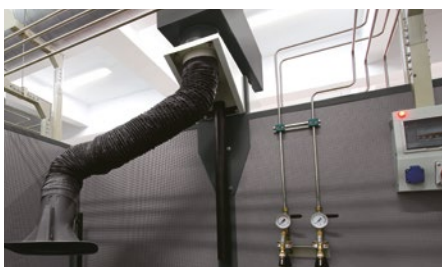
The telescopic extraction arms from HERR require very little space. They are ideal for use in limited spaces such as those found in weld shops and training facilities. They can easily be attached to the sturdy frame structure.

Sound absorbing partition walls

The entire system comprises a steel structure which is coated with UV-resistant powder paint. The standard colour of the steel frame is RAL 7037 with perforated wall elements which are powder-coated in the same colour. If necessary, the partitions can be equipped with additional components such as gas pipes, electrical installations, extraction arms, cover strips and other accessories.




Abbildungen können von der Standardfarbwahl abweichen.

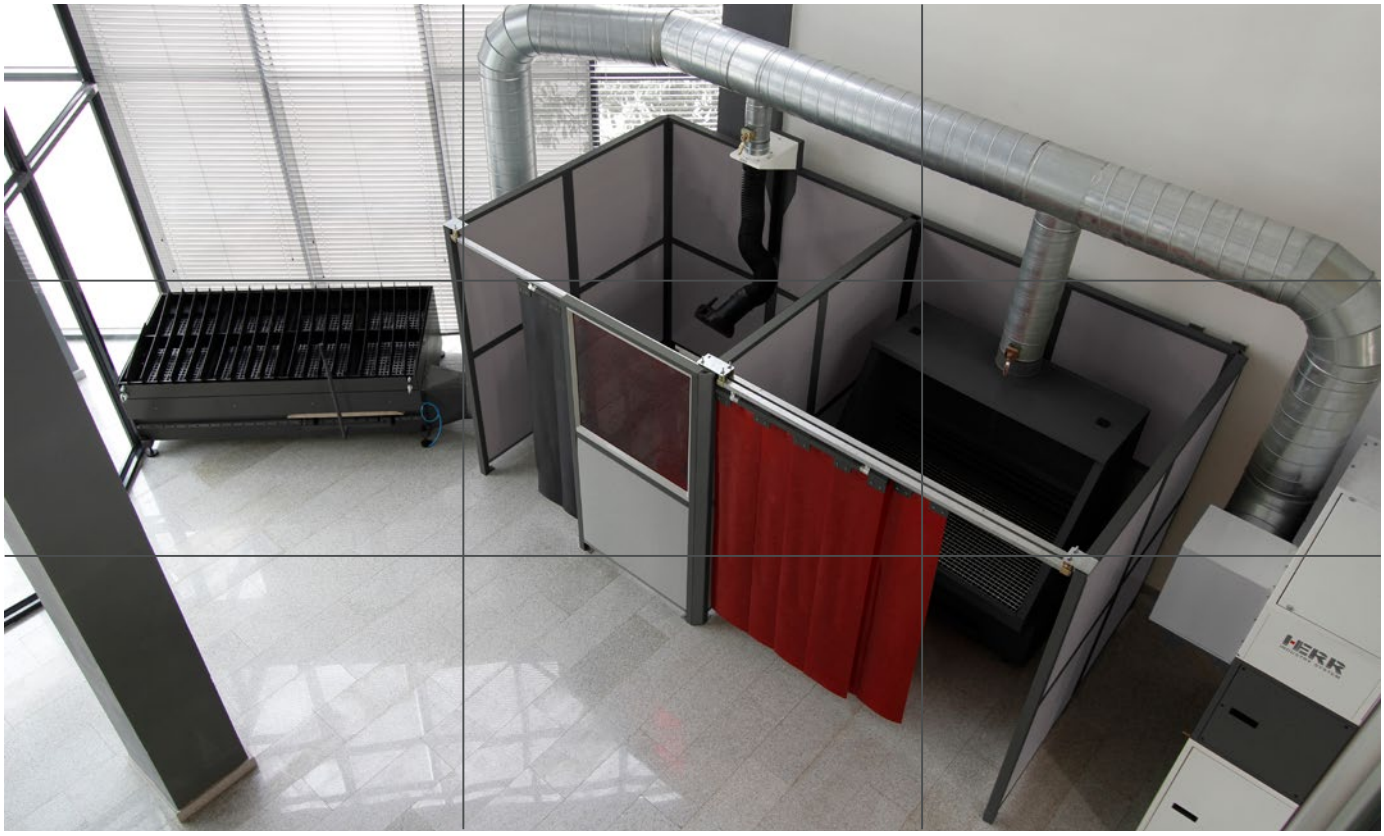
Sound absorbing partition walls

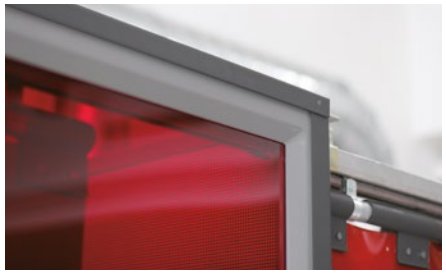
The components listed below are visible on the schematic diagram. The modular principle allows the system to be adapted to individual requirements. Additional accessories such as extraction tables, extraction arms etc. are available if necessary. Please ask your HERR consultant for details.

	Article number	Description
1	570010210	Single column with 100 mm floor clearance, 2,100 mm high
	570010260	Single column with 100 mm floor clearance, 2,600 mm high
2	570020210	Double column, 180°, with 100 mm floor clearance, 2,100 mm high
	570020260	Double column, 180°, with 100 mm floor clearance, 2,600 mm high
3	570030210	Double column, 90°, with 100 mm floor clearance, 2,100 mm high
	570030260	Double column, 90°, with 100 mm floor clearance, 2,600 mm high
4	570040210	Three-way column (T-shape) with 100 mm floor clearance, 2,100 mm high
	570040260	Three-way column (T-shape) with 100 mm floor clearance, 2,600 mm high
5	570050210	Four-way column (X-shape) with 100 mm floor clearance, 2,100 mm high
	570050260	Four-way column (X-shape) with 100 mm floor clearance, 2,600 mm high
6	570060050	Bottom strut, 500 mm wide
	570060100	Bottom strut, 1,000 mm wide
7	570070050	Middle strut, 500 mm wide
	570070100	Middle strut, 1,000 mm wide
8	570080100	Cover profile, 1,000 mm wide
	570080150	Cover profile, 1,500 mm wide
	570080200	Cover profile, 2,000 mm wide
	570080250	Cover profile, 2,500 mm wide
	570080300	Cover profile, 3,000 mm wide
9	570090001	Top-mounted console for extraction arm
10	570100001	Sound-proofing panel, 1,000 x 1,000 x 50 mm
	570100002	Sound-proofing panel, 1,000 x 500 x 50 mm
	570100003	Sound-proofing panel, 500 x 500 x 50 mm
11	570110001	Window incl. frame, red, 1,000 x 1,000 x 3 mm
	570110002	Window incl. frame, red, 1,000 x 500 x 3 mm

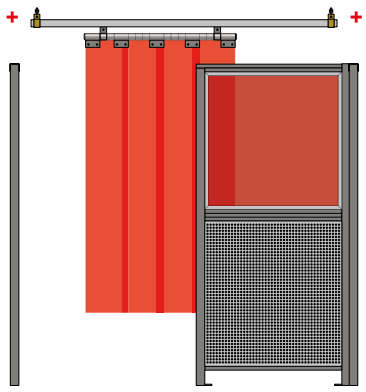
Sound absorbing partition walls

The sound-proofing booths can be equipped with different door concepts. Depending on the workstation requirements, the booths can be equipped with swinging doors or movable louvre strip doors or curtains.





Sound absorbing partition walls

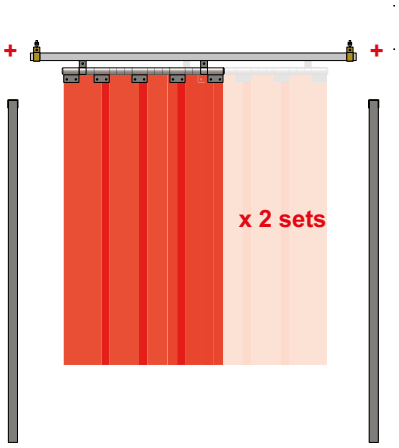


Sliding door with C-profile

Mounting a single sliding door includes: Rail cover for sound-proofing walls and protective sliding strip curtains. A typical booth is generally 2,000 x 2,000 mm in size, with a door passage 1,000 mm wide and a viewing window 1,000 mm wide. The sliding door has a width of 1,050 mm.

Article number	Description
580105200-11	Sliding door 1,050 mm wide, comprising red protective curtains with 33 % overlap, sliding door track 2,000 mm
580105200-12	Sliding door 1,050 mm wide, comprising dark-green protective curtains with 33 % overlap, sliding door travel 2,000 mm
580105200-13	Sliding door 1,050 mm wide, comprising light-green protective curtains with 33 % overlap, sliding door travel 2,000 mm
580155300-11	Red strip sliding door kit 1,550 mm wide, 33 % overlap, 4-hole position, rail 3 m long
580155300-12	Dark-green strip sliding door kit 1,550 mm wide, 33 % overlap, 4-hole position, rail 3 m long
580155300-13	Light-green strip sliding door kit 1,550 mm wide, 33 % overlap, 4-hole position, rail 3 m long
532090601	Two-sided bracket, 180 x 98 x 37 mm, incl. attachment set, galvanised
532090602	One-sided bracket, 125 x 98 x 37 mm, galvanised

Sound absorbing partition walls



Double sliding door

Mounting a single sliding door includes: Rail cover for sound-proofing walls and protective sliding strip curtains. A typical booth is generally 2,000 x 2,000 mm in size, with a door passage 2,000 mm wide. The two sliding doors, which move in opposite directions, are each 1,050 mm in width.

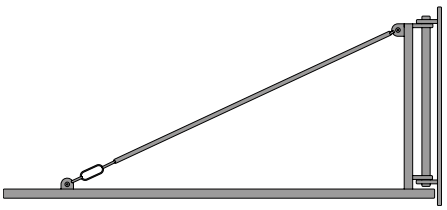
Article number	Description
580105200-11	Sliding door 1,050 mm wide, comprising red protective curtains with 33 % overlap, sliding door track 2,000 mm
580105200-12	Sliding door 1,050 mm wide, comprising dark-green protective curtains with 33 % overlap, sliding door travel 2,000 mm
580105200-13	Sliding door 1,050 mm wide, comprising light-green protective curtains with 33 % overlap, sliding door travel 2,000 mm
580205400-11	Sliding door 2,050 mm wide, comprising red protective curtains with 33 % overlap, sliding door track 4,000 mm
580205400-12	Sliding door 2,050 mm wide, comprising dark-green protective curtains with 33 % overlap, sliding door travel 4,000 mm
580205400-13	Sliding door 2,050 mm wide, comprising light-green protective curtains with 33 % overlap, sliding door travel 4,000 mm
532090601	Two-sided bracket, 180 x 98 x 37 mm, galvanised
532090602	One-sided bracket, 125 x 98 x 37 mm, galvanised, for mounting on end wall

Pivoting supporting beam for wall mounting

In manufacturing processes, large parts from the separate welding areas often have to be handled. HERR pivoting supporting beams are the perfect solution for this problem. The pivoting supporting beam can be equipped with curtains or strips depending on the application.

The supporting beam can bridge a gap of up to 6 metres. Free-standing posts or wall-mounted arms are also available as an option. HERR has free-standing posts in its range for flexible application options

- Easy to pivot
- Length ranges from 1,600 – 6,000 mm
- Saves space at the workstation
- Simple to install
- Customer-specific solutions are possible



Lightweight pivoting support beam, length 1,600–3,200 mm

The pivoting angle of up to 180° can be implemented comfortably and ergonomically

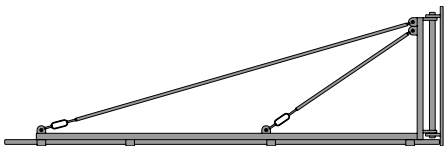
Bracket for 1" tube components

Article number	Description
550000160	Pivoting supporting beam for wall mounting, 1,600 mm
550000200	Pivoting supporting beam for wall mounting, 2,000 mm
550000250	Pivoting supporting beam for wall mounting, 2,500 mm
550000320	Pivoting supporting beam for wall mounting, 3,200 mm

Bracket for C-rail system

Artikelnummer	Description
550090160	Pivoting supporting beam for wall mounting, 1,600 mm
550090200	Pivoting supporting beam for wall mounting, 2,000 mm
550090250	Pivoting supporting beam for wall mounting, 2,500 mm
550090320	Pivoting supporting beam for wall mounting, 3,200 mm

Pivoting supporting beam for wall mounting



Heavy-duty support beam, length 4,000–6,000 mm

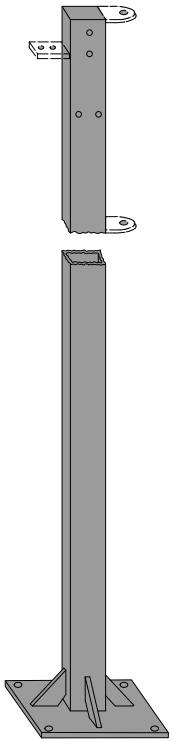
Bracket for 1" tube components

Article number	Description
551090400	Pivoting supporting beam for wall mounting, 4.000 mm
551090450	Pivoting supporting beam for wall mounting, 4.500 mm
551090500	Pivoting supporting beam for wall mounting, 5.000 mm
551090550	Pivoting supporting beam for wall mounting, 5.500 mm
551090600	Pivoting supporting beam for wall mounting, 6.000 mm

Bracket for C-rail system

Article number	Description
551000400	Pivoting supporting beam for wall mounting, 4.000 mm
551000450	Pivoting supporting beam for wall mounting, 4.500 mm
551000550	Pivoting supporting beam for wall mounting, 5.000 mm
551000500	Pivoting supporting beam for wall mounting, 5.500 mm
551000600	Pivoting supporting beam for wall mounting, 6.000 mm

Free-standing column for pivoting support beam...



... up to 3,200 mm length

Article number	Description
552300300	80 x 80 x 4 mm column, 3,000 mm high
552300450	80 x 80 x 4 mm column, 4,500 mm high

... up to 4,000 mm length

Article number	Description
552400300	100 x 100 x 4 mm column, 3,000 mm high
552400450	100 x 100 x 4 mm column, 4,500 mm high

... up to 6,000 mm length

Article number	Description
552600300	120 x 120 x 4 mm column, 3,000 mm high
552600450	120 x 120 x 4 mm column, 4,500 mm high

Notes

Notes

Notes

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