

YOUR PARTNER FOR INDUSTRIAL DEDUSTING

valco

- Dust Extraction Systems -



We take care of your
dedusting problems!

VALCO GmbH · www.valco.de

Company Profile

The company VALCO GmbH takes care of finding solutions for industrial dust extraction problems. We have more than 30 years of experience in this area.

We deliver and install dust extraction units in steel- and stainless steel for almost every industrial area. VALCO provides state-of-the-art dust extraction technology with high efficiency.

We have specialized on individual customized filtration systems and a wide range of standard products in the area of industrial filtration in Germany and Worldwide throughout the last years. Usually this is realized in close collaboration with our customers. Our filter systems are manufactured in high quality and with the experience of more than 4000 realized systems.



Bag filter system for 175,000 m³/h, 36 tons system weight



Dust filtration is based on experience

The project planning and construction of a ventilation technology dedusting system for air pollution control requires extensive experience and competence of a specialist.

Factors like the right air volume, small differential pressure, efficient dedusting systems and the right filtration technology influence investment and long term operating costs.

VALCO has extensive process knowledge, which is necessary for the development of problem solutions and conception of your individual system.

Not only our standard systems, but especially individual adjusted systems convince our customers regarding the best functionality and efficiency.

VALCO is one of the leading manufacturers regarding customized dedusting systems for almost all industrial sectors.

VALCO - dedusting systems are designed seriously, reliable and are characterized by their low energy consumption and low follow-up costs.

VALCO - Philosophy:

Dust extraction units with high filter area, integrated pre-separation, little differential pressure, long filter life and reliable service lead to satisfied customers.



Cartridge filter with 60m² filter area (PTFE-membrane) and 60m² secure post-filter, filter system inside ATEX-zone 20



ATEX-cartridge filter, 11 bar pressure-resistant for explosive powder



Central vacuum cleaning system in the automotive industry, explosion-proof, air volume of 2000 m³/h at 40 kPa vacuum.

- **Standard filters**

Used for most types of dust in the industry. Those standard versions are delivered with a filter area of 10-3600 m². You can choose between **bag filters** for complicated dedusting tasks or **cartridge filters** for dry and pourable dust.

- **ATEX-Filters**

Used for explosive and fire risk dust in accordance to the latest ATEX-guidelines.

- **Special-filters and mobile filters**

Based on the standard filter program, Valco offers special filters according to individual customer requirements and installation conditions.

- **Mini-Filters**

You can choose between small bag filter, cassette filter or cartridge filters with filter area from 9-92m². They are used for smaller applications and narrow mounting situations.

- **High vacuum systems**

Central high-vacuum systems with under-pressures up to 0.7 bar for material transport and for industrial vacuuming.

We offer innovative, customized solutions for a dust-free environment.

*For any questions, please contact us:
**Telephone: +49 21 04 - 800 42-0 or
info@valco.de***

Dedusting Technology

- solutions for almost every sector -



▼ Dust extraction system with bag filters for 40,000 m³/h, cast steel foundry



VALCO offers a large range of solutions for professional dust extraction in the metal sector.

Dust extraction systems for welding fume, grinding- and plaster places, flame cutting, metal spray process, smoking gases of industry ovens belong to our solutions. Request our special brochure.

VALCO offers you a large range of solutions for extraction of oil/emulsion mist. Request our special brochure.

◀ Emulsion mist pre-separator EA-2 for 5 processing machines, 6000 m³/h.

▼ Compact filter system type RX-7500 for welding fume extraction via extraction arms.



High Vacuum Extraction- and Filter Systems for all industrial sectors

VALCO – If high-vacuum extraction and filter systems are used, the pollutants are captured directly at the point of origin.

With our multi-stage turbines we are able to realize, dependent on the requirement, between 20-80kPa.

VALCO ranks among the leading manufacturers regarding central high vacuum extraction- and filter systems.

More than 30 high vacuum extraction- and filter systems, in explosion-proof designs were supplied to the automotive industry for the extraction of aluminium grinding dusts.



▼ Central high vacuum extraction and filter system, explosion-proof, 3500 m³/h, 25 kPa, 45kW, for the extraction of epoxy resins and cotton fluff, chemical industry.



VALCO-High vacuum extraction units apply in every industry sector e.g.:

Metal industry:

- Extraction of welding fume via suction burner, suction nozzles, suction arms etc.
- Extraction of grinding dust right at the grinder
- *Extraction and transport of metal- and cast chips*
- Ground- and cleaning work

Ceramic industry:

- Material transport
- Cleaning work

Chemical industry:

- Material transport, e.g. pills, powder coating etc.
- Cleaning work

Waste recycling:

- Machine- and hall cleaning

▼ Central high vacuum extraction- and filter system, 2000 m³/h, 20kPa, 22 kW, for extraction of welding dust at the torch



High Vacuum Extraction- and Filter Systems for all industrial sectors



◀ BMW Regensburg – Central High Vacuum extraction- and filter system, explosive protected, 11 bar pressure shock resistant, $2 \times 1500 \text{ m}^3/\text{h}$, 35 kPa vacuum, each with 30 kW drive power for extraction of powder coating, which can't be regained at varnishing. Additionally the system is used for the cleaning of the whole lacquering line. The tube system has a total length of about 300m.

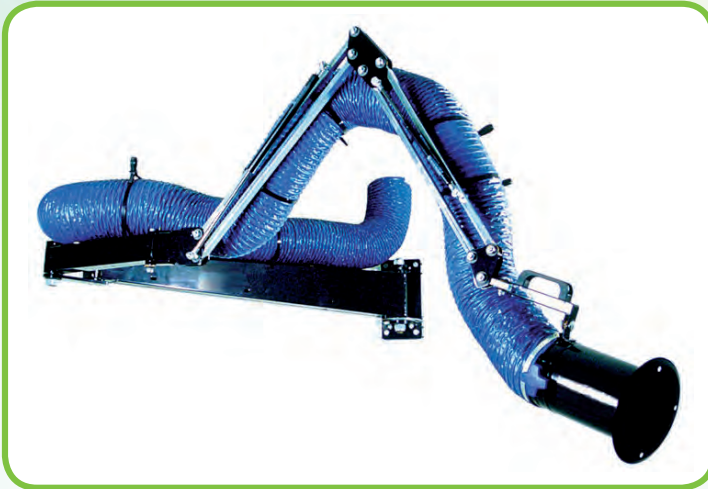
▼ High-pressure turbine in a sound-proof housing



► Hose reel for vacuum hoses. For simple application of long vacuum hoses – time saving and convenient.



Extraction Elements for dedusting



◀ Parallelogram extraction arm in high quality, length from 1,5m – 10m, hose diameter from 45mm – 200mm. The joints and gas pressure absorbers on the outside support a simple usage and a long lifetime.

▼ Additional capture hoods like the long nozzle SUH-1250 can simply be added on the arm.



▼ 3 m whirlwind hood mounted on a workbench.



▲ Turbowall made out of sheet steel with straight or curved back wall. The swirl tube inside the hood ensures uniform coverage over the entire surface. With low volume flows an excellent extraction result is achieved.



◀ Extraction table with extraction from beneath, in addition also with extraction from top, with special air distribution for optimal capturing of the pollutants..

Available in various sizes and variants, e.g. height-adjustable or with wooden grid cover.



Capture Elements for the dust extraction



◀ Robot extraction hoods in various versions, e.g. with edge extraction or only as nozzle panel, customized.



◀ Rotatable extraction hood for flame cutting, customized ▼



▼ Special hood for thin metal coil production



◀ Extraction table with water bath for flame cutting, available in various sizes.

► Roll up for hoses with extraction hood.



More infos at:
www.valco.de

Sound Insulation- and Grinding Cabins with extraction systems



Sound insulation cabins with extraction system for grinding, abrasive blasting and flame cutting.

◀ Customized version with double angle sliding door for crane application . ▶



▲ Grinding cabin with extraction table and explosion-proof extraction system.



▲ Grinding cabin in the automotive industry with extraction- and supply air system



▲ Grinding cabin with ground suction channel and additionally with injector suction system for cleaning.

Certificates and honours



References



- ✓ Chemical & Color
- ✓ Plastic
- ✓ Pharmaceutical industry
- ✓ Food- and feed industry
- ✓ Ceramic
- ✓ Automotive & aerospace
- ✓ Metal processing

and more...

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