MÜNSTERMANN and NEOTECHNIK – two companies with tradition and much experience.
Together we stand for top-quality, efficient solutions in dust collection technology.

MÜNSTERMANN and NEOTECHNIK – Tried and tested experience with dedusting plants
Two separate companies with tradition and huge know-how have bundled their competences together – MÜNSTERMANN and NEOTECHNIK. Expect a plus in competent consulting and project related support.

Over 80 workers from the Departments Production Engineering Design and Development are concerned with our customers’ questions in our two Head Offices in Telgte and Bielefeld.

We are active world-wide and have production facilities as well as with several licence holders, joint ventures and co-operation partners in Asia, the Middle East and Africa.

Flat Bag and bag filters from one source
MÜNSTERMANN and NEOTECHNIK’s joint product range is large. Our offer ranges from the smallest filters to centralised dedusting units.

Should you expect an excess of competent advice and project-related monitoring then we are your contact person for all questions around industrial dedusting and filtering technology. You will receive individual concepts for the most differing areas of application from one source.

We have special experience in the following areas:
> Quarry, mining and mineral industry
> Foundry and steel industries
> Tobacco production and processing
> Food and drinks industry
> Chemical applications
> Cement, lime and gypsum
MÜNSTERMANN

MÜNSTERMANN is one of the leading producers of industrial drying and heat treatment units, sophisticated material handling technology as well as top-quality dedusting, dust extraction and filter plants.

Filter solutions are offered by MÜNSTERMANN since the take-over of the company Lüscher Filterbau AG in 2002. Lüscher itself stemmed from a pioneer of the dedusting branch the company Standard Filterbau. Company history acts as a guarantee for quality.

Even today enquiries for spare parts for these units, which have worked consistently, effectively and reliably, reach us from all over the world. The bag filters carry the name of MÜNSTERMANN today. Nothing has changed with regard to high quality, safety in operation and the excellent service.

NEOTECHNIK

NEOTECHNIK concerns itself since its founding in Bielefeld in 1919 with the design and development of systems for air pollution control. With now over 90 years of experience and tradition NEOTECHNIK has become a leading player in dedusting technology. NEOTECHNIK supplies complete systems for air cleaning using the NEOTECHNIK flat bag filter technology.

In cases where compressed air is not available or its use is uneconomical, it is possible to apply NEOTECHNIK’s flat bag filters with its special reverse air cleaning system.

NEOTECHNIK possesses special know-how in the area of foundry work and applications in the food and drinks industry – with special attention on tobacco.
For the separation of dust MÜNSTERMANN and NEOTECHNIK supply different types of filtering technology for airflow rates of between 1,000 and 500,000 Bm³ per hour. All products are designed for rough industrial use.

**Flat bag filters**
- **compact design with large surface areas**

Our compact bag filters work using the proven 'Down-flow' principle. This technology supports the separation and removal of dust by downward directed air flow. This is especially suitable for fine, light and fibrous dusts as for example are typical in the production of metal or in the metal producing industry.

The maintenance of the units carried out from the side through large inspection doors in the clean gas section. The filter bags can be easily removed from a servicing platform and without the employment of special tools.

The dedusting of the filter bags is carried out by either a mobile purge air cleaning carriage or by using jet-pulse cleaning device.

**Your advantages:**
- Compact design with a maximum of filter surface larger than 2000 m²
- Minor filter resistance therefore energy saving
- Self-cleaning filter elements through 'Down-flow' technology
- Gentle filter dedusting using purge air, no requirement for compressed air, long life time
- Solid welded design for high pressure tolerance
- Simple operation and servicing from the side inspection doors
- Short assembly time, completely pre assembled and tested
Bag filters
- flexible and robust

Our robust bag chamber and round filters with their fully-automatic pulse-jet dedusting system are supplied in modular design. Large and easily-accessible inspection doors make a quick and uncomplicated filter change possible from the clean air side. The crude gas and clean air sections are optimally separated from one another. This is made possible with the proven filter bag connectors by using a snap ring at the bottom of the filter bag.

The strength of the bag chamber filter is well demonstrated in the area of heavy, abrasive and fibrous dusts. The integrated pre-separating chamber removes the larger dust particles before contact is made with the filter medium.

The main areas of application are the cement, lime and gypsum industries, the building, stone and earth industries as well as the chemical industries.

Your advantages:
> Reliable processing of a heavy load of crude gas dust
> Simple bag change possible using a snap ring
> High flexibility through modular design and bag lengths of up to 8 metres
> Deposit-free crude gas dust area
> Filter surface areas up to 1,400 m² in series design
Surface cooler – economic and well-thought out

Depending on the selected filter medium the stream of gas in hot gas applications has to be cooled before the dedusting process. Our surface coolers are economically employed when process temperatures up to 600°C.

With our cooling system there is no need for further addition of water or process air. The volume flow rate of the gas can be considerably reduced.

Your advantages:
> Reduced operating costs
> Waste heat recovery
> Compact design
> Automatic cleaning
> Cooler elements are easily dismantled

Harmful gas absorption – safe and efficient

In order to reduce the amount of the harmful gases we can supply additive inlets in the stream of crude gas. By means of absorption for example hydrogen chloride, sulphur dioxide and hydrofluoric acid can be combined. Similarly we offer solutions for eliminating dioxine and furan.

Amongst others, our systems are employed in:
> Crematoria
> Melting processes
> Incinerators
> Cupola melting furnaces

Your advantages:
> Combining and eliminating gaseous and harmful substances and odours
> Know-how and planning from one source
Detection systems

An efficient dedusting unit is based on an optimal gathering of the discharged air to be cleaned. For this we design, develop and produce the following:

> Hoods for induction furnaces
> Complete enclosures for electric arc furnaces
> Extraction walls and cabins
> Swivel hoods

**Your advantages:**
> Energy saving through minimal volume flow rates and optimal gathering of the discharged air to be cleaned
> Automated detection systems
> Customer-specific solutions

Accessories

— comprehensive range of goods

From MÜNSTERMANN and NEOTECHNIK you receive a broad range of accessories around dedusting technology.

> Pre-separators such as cyclone and skimmer
> Discharge elements: rotary valve, double pendulum flap, conveying and plug screw
> Dust handling system
> Filter medium
> and much more
Quarry, mining and mineral industry

In the stone and earth industry we give effective support to our customers as high performance partners for static and mobile dedusting units. Our robust systems dedust:

> Crushers and mills
> Conveying systems and handover points
> Silos assignments and bulk consignments
> Dedusting screens and bucket elevators

**Your advantages:**
> Everything from one source: from acquisition to chimney
> Robust design for rough, everyday applications
> Insensitive to damp
> Delivery of silo top bin filter

Cement, lime and gypsum

The cement, lime and plaster industry is supplied with our filter systems for all of the following applications:

> Feed hopper, crushers, sifters in lime and marble stone quarries
> Raw material warehousing and conveyor belts
> Hot gases from raw meal mills
> Fuel processing
> Interim storage of bricks in a brick silo
> Fine grinding in a cement mill
> Mixing with additives
> Bulk materials, packing and transport
> Drying units
> Lime shaft kilns
Foundry

We have at our disposal many years of experience in a large number of areas of industrial casting:

> Furnace charging area
> Smelting furnace
> Moulding-, casting- and cooling lines
> Sand treatment and processing
> Cast iron treatment (cleaning, blasting, arc air cutting)

Your advantages:
> Complete units for both interior or exterior operation
> Know-how in all areas of a foundry
> Special capture elements and suction hoods
> Optimised filter units for fine dust
> From the source to the chimney – everything out of one hand

Hot gas

For application with hot gases we supply complete units with coolers. In addition we can obtain the fitting absorption units.

We dedust:
> Effluent sludge dryers
> Crematoria
> Wood burning incinerators
> RDF-plants
> Furnace extraction systems
Tobacco

The tobacco industry has in us a reliable contact partner and supplier. Our customers profit from NEOTECHNIK’s more than 50 years experience in this branch. We supply fully-automatic systems for the processing of raw tobacco, treatment of tobacco and the production of cigarettes.

We offer you:
> Extraction of exhaust vapours
> Dedusting of dryers and expander units
> Pneumatic leaf and stem conveyors
> Pneumatic tobacco cut filler transport systems with blend selection station including monitoring facility
> Dedusting of cigarette machines’ extractor
> Centralised waste management
> Centralised dust extraction

Food and drinks

The food and drinks industry has a variety of requirements in regard to dedusting technology. The MÜNSTERMANN and NEOTECHNIK network of competence offers manifold solutions for the filtering of processed air in drying processes, the dedusting of silos and conveyor lines or the pneumatic conveyance of foodstuffs such as herbs and spices.

Chemical industry

For dedusting and processing filters for the chemical industry there are special requirements. In the air to be filtered or in the gases aggressive substances occur to some extent. Here the units are needed in stainless steel and with explosion protection such as explosion flaps. Along with the pure filtering you can also control the flow of process air (e.g. when using drying and degassing processes).
Measurement and Control

Together with our own Measurement and control Department we put our customers’ control concepts and interfaces to existing control systems into practice.

Your advantages:
> Hardware and control from one source without interface problems
> Optimal solution for your case of application through know-how of machines and processes
> SPS-control system from Siemens, Allen Bradley and Beckhoff
> Centralised and de-centralised control concepts

Additional services

Engineering of ventilation and air conditioning systems
Our competences exceed the actual design and development of units by far. On request we can design a complete unit for you from thorough consultation right up to the planning of the logistics and the commissioning.

We offer you:
> Planning of units, information registration systems and piping
> Calibration and regulating of units
> Advice on energy and dust management

World-wide assembly and maintenance services
MÜNTERMANN and NEOTECHNIK have at their disposal their own Assembly and Maintenance Departments. Experienced and technically well-qualified personnel ensure the smooth-running of all processes.

Spare parts service – quick and reliable
MÜNTERMANN and NEOTECHNIK offer a comprehensive spare parts service. Even years after installation we are and remain your direct and competent contact partner. You can completely rely on our brisk customer service.

Conversion and modernisation of old facilities
The modernisation of an existing dedusting unit or the special conversions such as the change of electro filters to bag filters is far less effort and expense than is generally anticipated. They have a number of advantages:
> Suction output is increased.
> Residual dust content in pure air drops.
> You save energy.

Feel free to contact us!
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