



**Plant technologies  
in accordance with the  
Federal Immission Control Act**

## Preface

### With passion in the market

With passion in the market means, just as in a family, to regard others, respect feelings, respond to particularities and, last but not least, stand together for better or worse.

However, success does not come by itself but is the result of performance and high quality, for which all employees of our enterprise are responsible. Highly motivated and qualified employees are therefore our greatest capital. This is complemented by modern methods and proven manufacturing processes.

Besides the most modern test equipment for research and development, cooperation with leading universities and technical laboratories is available. However, good technologies have a history and are hence no coincidence. They are in fact the sum of long-term experience and ongoing research.

Our flexibility and adaptiveness made us a reliable partner, competent system provider and future-oriented developer. With the inclusion of decentralized extraction systems, LET<sup>®</sup>meschede now makes the competence, which was gained in the manufacture of filtration equipment during a quarter of a century, available for a completely new market segment.

The new decentralized extraction systems will show you, our customer – we are with passion in the market.

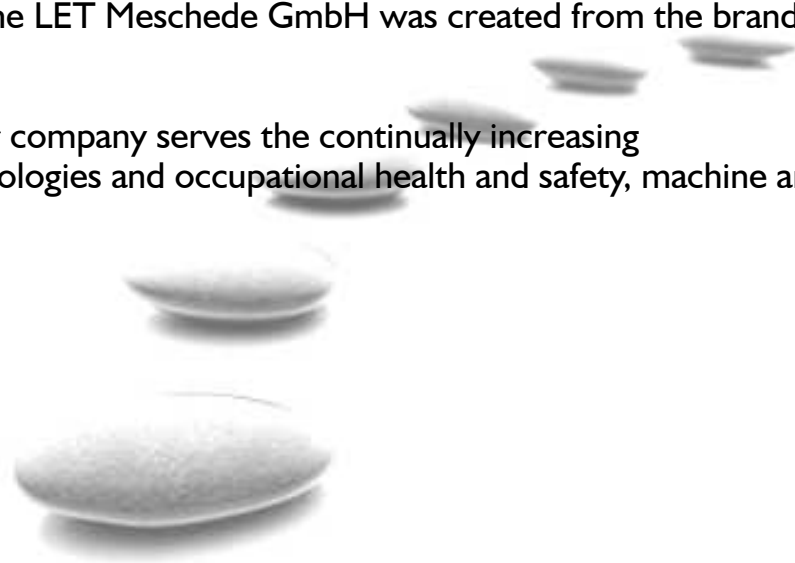
A handwritten signature in dark ink, appearing to read "Ralf Kuhlmann".

Ralf Kuhlmann, Manager



# LET in a nutshell

## Milestones - Successes - Visions

- For more than a quarter of a century LET<sup>®</sup>meschede has been a successful manufacturer and developer in the domain of extraction and filtration technology.
  - At our plant in Meschede, Sauerland, 40 employees work on the development and implementation of customised and market-conform filtration solutions “Made in Germany”.
  - The service spectrum includes planning, manufacture, installation and start-up of complete process engineering solutions, service and maintenance of ventilation systems.
  - Since 2006 LET<sup>®</sup>meschede has been developing and manufacturing compact decentralized extraction systems as series and small series products in cooperation with machine manufacturers of all processing areas.
  - We look beyond the obvious and consider the procedure technical environment to provide our customers with the most efficient filtration solution.
  - In 2009 we started to develop and manufacture movable grinding and extraction cabins with integrated filter systems for the energy and aerospace industries.
  - 2015, the new company name LET Meschede GmbH was created from the brand name LET<sup>®</sup>meschede.
  - The innovative power of our company serves the continually increasing requirements of green technologies and occupational health and safety, machine and plant protection.
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## Company profile

### Association membership

50 % Chamber of Industry and Commerce Arnsberg, Hellweg-Sauerland  
50 % Chamber of Crafts South Westphalia

### Approvals / Certifications

Electric: High and low voltage installations  
Heating and ventilation systems of any kind  
Gas and water installations incl. liquid gas  
Extraction and filtration systems dry and wet  
Gas purification via activated carbon filter systems  
Specialist welding company according to DIN 18800-7B  
Welding test according to DIN EN 287 part I  
Certificate of expertise for acceptance according to § 14 of the Ordinance on Industrial Safety and Health for explosion protection  
Approved training company from sheet metal mechanic to industrial clerk

### Software- / CAD-programs

EPLAN Electric P8 2.9

Siemens SPS Software:

- Programming Logo! Modules – Logo!Soft Comfort V8.3

- Programming S7 Safety Version V5.4 with SP5.6

- Visualisazion – WinCC flexible 2008 SP5

- Programming SI 200/I 500 Systeme – TIA Portal STEP7 Basic  
Version V17

- Visualisazion WinCC Basic Version V15.1

Calculation of the performance level with Sistema Version 1.9

Solid Works

Design program for explosion protection according to EN 14491

Safety assessment according to the Machinery Directive



## Training level of the planning department

Dipl.-Ing. Mechanical Engineering specializing in design engineering  
State-certified technicians specializing in mechanical engineering  
Dipl.-Ing. Electrical Engineering  
Electrotechnical assistant  
Master electrician  
State-certified technician specializing in environmental protection  
Master gas / water fitter  
Heating / ventilation master builder

## Training level of assembly employees

All employees are skilled workers  
Forklift driving licenses  
Mobile elevating work platforms driving licenses  
Crane operator licenses  
Checkups G 20, 25, 4 I  
First aid trainings

## Cooperation

Gas Measurement: Dräger Safety AG & Co. KGaA  
Spark extinguishing systems: T & B electronic GmbH, Minimax GmbH & Co. KG  
Inert gas extinguishing systems: Minimax GmbH & Co. KG

## The solution for clean air!

### Cartridge filter PFJ-serie

Modern industrial processes are efficient and make use of the materials optimally. However, almost every process produces unwanted by-products. The use of mechanical processing methods such as grinding, turning, milling or drilling leads to the formation of air-foreign substances, such as welding, melting or painting. The resulting materials do not only disturb the production process, they can also be highly dangerous and are sticky, corrosive and often explosive. For the plant operator, regulations and guidelines in the areas of occupational safety, health and safety result in a large number of obligations.

With the PFJ series, LET<sup>®</sup>meschede has launched a versatile and variable series product that makes a decisive contribution to employee protection, compliance with relevant regulations and process stability.

Absolute industrial quality

Easy servicing

Favourable operating costs

Individual fitting

Various uses

Separation efficiency up to 99,90%

Variable connection options

Easy in-house transport







## Cartridge filter – PFJ 4.000



## Extraction systems for oils and emulsion mist

### Oil/emulsion mist separator EA-serie

Oil and emulsion mists occur in many industrial manufacturing processes (e.g. turning, drilling, milling or grinding) as an undesirable by-product.

Through the use of emulsion-like cooling lubricants, the ambient air is polluted by small oil particles. These pollutant particles are potentially hazardous to health and can cause reactions such as skin and eye irritation and respiratory diseases. By settling the oil lubrication increases the risk of accidents within the manufacturing plants.

By using the EA series from LET<sup>®</sup>meschede you protect your employees and the production equipment used.

Designed for industrial production (100% ED)

Favourable operating costs

Low noise emission

Separation efficiency up to 99,95%

Individual fitting

Easy servicing





## Oil/emulsion mist separator EA 8.000



Compact filter for extraction and separation of oil / emulsion mist.

In the 1st filter stage coarse particles are separated by means of aluminium expanded metal filters.

The 2nd filter stage separates the aerosol droplets by using pocket filters.

The particle filters in the 3rd filter stage serve as safety filters.



## Extraction systems for reactive dusts

Extraction of dry paint dusts

Cartridge filter – PFJ-4.000 ex





## Extraction of titanium dusts

PFJ-4.000 explosion-protected





## Extraction of plastic dusts

Plastic grinding dust extraction via a wet scrubber with cyclone separator



## Extraction of rubber dusts

Extraction and filter system PFJ-12.000 explosion-protected  
Suction of rubber dusts on a grinding machine





## Extraction of food dust

Extraction of spice dusts



Mobile feed hopper with integrated edge suction and ring suction directly at the floor passage





## Pneumatic conveyance with silo facility for the food industry



Pneumatic conveyor system for extraction and sorting of wafer breakage with silo system, content 75 m<sup>3</sup>



## Extraction of CFK-/GFK dusts

Movable grinding and suction cabin for rotor blades



Movable grinding and suction cabin  
Dimensions:  
Length inside 10 m, Width inside 7,5 m,  
Height inside 4,5 m  
Illumination 800 Lux/m<sup>2</sup>







Filter center with safe pressure discharge in working space via indoor vent according to ATEX 100a and FSA-certified.



## Individual cabin technology with floor- and table extraction







Grinding cabin with  
explosion-protected  
extraction and filter system  
PFJ-15.000, pressure-  
relieved via a burst duct  
through the outer wall



## Explosion-proof filter systems

Explosion-proof filter systems according to DIN EN 14491 with pressure relief to the outside





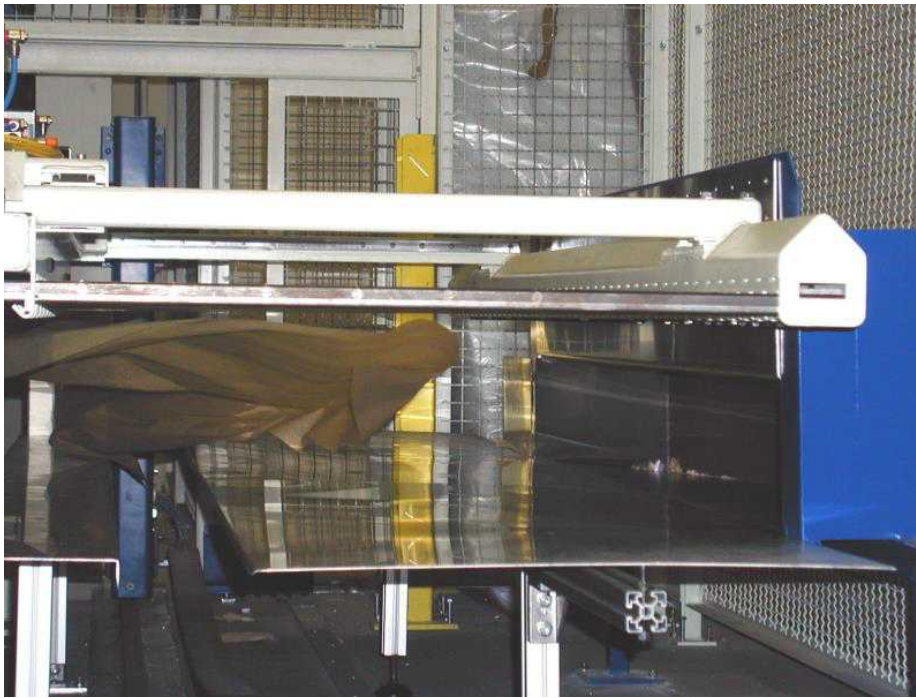


## Explosion-proof filter systems according to ATEX



## Automation of the paper disposal

with individual collection and baling press



The paper, which is inserted to protect the high-quality sheet metal, is used in the destacking sucked in (paper size up to 1500 x 3000 mm), removed from the working area and cut by a shredding fan.

The collected papers are fed to the separator via a fan.







## Full Service

### Your advantages at a glance

Industrial ventilation and dust separation systems affect work flow and working atmosphere. Since many years LET<sup>®</sup>meschede pursues the philosophy “service with system”, since this means entrepreneurial foresight.

With a full service agreement you place the responsibility for your high-quality ventilation and filter technology in competent hands.

Our service technicians are always there for you!

We recommend – you decide!

Your benefits:

We care for your ventilation systems; this means for you:

- Reduced workload
- Time saving
- Cost optimization

We communicate semi-annually to arrange the next inspection date.

Maintenance is documented in an inspection book. In addition the LET service technician leaves a test certificate for efficient system functionality.





- General visual inspection
- Special control of filter elements
- Inspection of the fan
- Testing of switch cabinet according to VDE
- Checking the setting values
- Measurement of suction power/differential pressure
- Cleaning of sensors and probes
- Checking the pipeline for deposits
- Direct replacement of defective small parts
- Creation of measurement and maintenance protocols
- Automatic scheduling of maintenance dates
- Test book and test badge according to BGR 121



Not only filter cartridges and various filter elements are available from us. LET<sup>®</sup>meschede supplies you with the products you need for the optimum care of your plant.



#### Plant components:

Discharge elements (for example big bags, screws, rotary valves), fire and explosion protection (for example bursting discs, spark traps, fire-/Spark detection and extinguishing system), Piping and accessories, control and regulation technology, fans ...



#### Extraction elements:

Extraction arms and cranes, suction nozzles, suction hoods (with and without vertical blinds), Suction hoppers, suction walls, work tables, suction-lip- and floor channel, air diffusers, vacuum cleaner set ...



#### Hoses and accessories:

suction hoses, plastic hoses, metal hoses, high-temperature hoses, Hose clamps, hose connectors, hose couplings, hose connectors ...

## **A reliable partner!**

Your benefits at a glance

Specialist extraction systems to protect your employees and increased value creation

Compact systems in industrial design, developed through practice - for the practice

Detailed on-site consultation

Problem solution competence with short ways

Fair and competitive price level enables you to calculate your success

Short and reliable delivery times increase your planning reliability

Terms and conditions adjusted to your individual requirements

Plant engineering and construction, service and maintenance from one source ensures the safety of your production process





## Excerpt from our reference list

- Akzo Nobel Powder Coatings GmbH
- August Storck KG
- BMW AG
- Dow Corning GmbH
- Ferrero oHG mbH
- OPTIBELT GmbH
- Rottolin-Werk Julius Rotter & Co. KG
- SGL Group GmbH
- Siemens AG Power Generation
- Silesia Gerhard Hanke GmbH & Co. KG
- Viessmann Werke GmbH & Co. KG
- Warsteiner Brauerei Haus Cramer GmbH & Co. KG, Warstein
- Worlée-Chemie GmbH
- ZF Friedrichshafen AG

## Contact

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