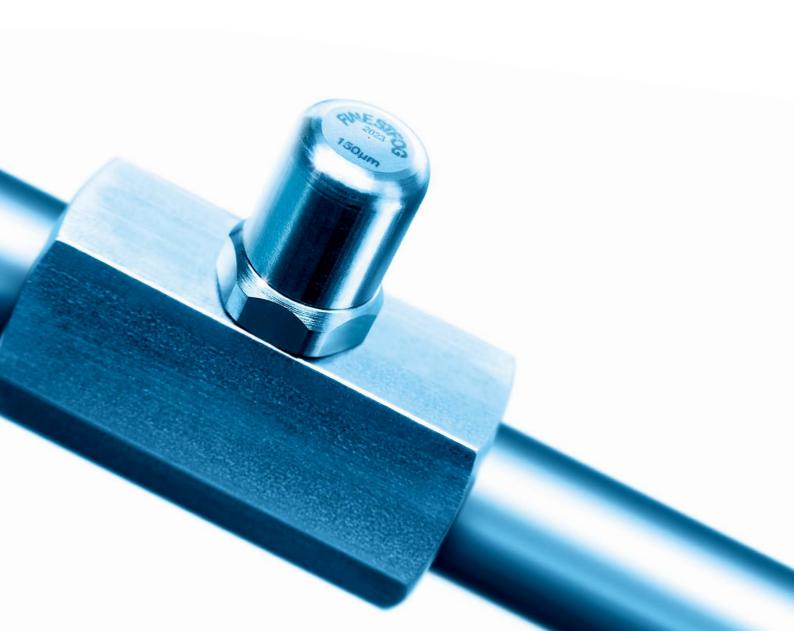
HUMIDIFICATION | WATER TREATMENT



- EST. 1994



HUMIDIFICATION

page 4

FINESTFOG air humidification systems do not require fans or compressed air. This makes them powerful, energy-efficient and unobtrusive. With their unique high-pressure single-substance nozzle, FINESTFOG systems humidify virtually any room volume almost silently.



WATER TREATMENT

page 12

Tap water is one of the best-protected human resources; in Germany it can be drunk safely. Nevertheless, it does not stand up to the demands of FINESTFOG humidification. FINESTFOG water treatment plants produce ultrapure water, soft water and fountain water for use in humidification and production.



ENERGY SAVING

page 15

FINESTFOG air humidification atomises water into an extremely fine aerosol that is quickly absorbed by the air without any further aids; the energy requirement is limited to the motor power of the high-pressure pumps. In addition, the evaporating aerosol provides 'free' cooling without further energy input.



HYGIENE SAFETY

page 16

Optimum hygiene at every point of the humidification process is the top priority. FINESTFOG complements the strict separation of water and air in the systems by developing and combining technical innovations to create an effective hygiene concept.



SYSTEM INTEGRATION

page 18

All FINESTFOG system components are compatible with each other. They form a modular system that can be individually adapted to the most diverse application environments.



COMPANY

page 20

High-pressure water instead of compressed air

Humidify any room volume almost silently and in an energy-efficient manner.

The 'Made in Germany' innovation: FINESTFOG high-pressure systems atomise water directly. Direct means: without the diversions via compressed air or fans. Efficient humidification of almost any room volume is possible in this way. Up to ten different rooms can be supplied with a healthy climate fully automatically from one central unit – also via air-conditioning and supply air systems. Operating hours counter, maintenance indicator, hose rupture protection and many other features guarantee safety and durability.





Increase manufacturing quality

Material shrinkage, loss of quality or electrostatic charging – associated with machine downtime or high reject rates – are signs of low humidity. Especially in winter, heating and dry fresh air additionally reduce the values to an alarming level. FINESTFOG air humidification keeps the air humidity constant at 50% RH. Electrostatic charge is reduced. Hygroscopic materials such as wood, paper and textiles can be processed more easily and precisely.

Reduce sick leave

Tiredness, lack of concentration, dry mucous membranes, weakened immune system – dry indoor air makes people ill. FINESTFOG air humidification binds the fine dust in the air. A controlled room climate is not only essential in the production area, but also in offices, conference or exhibition rooms. FINESTFOG air humidification is VDE and CE tested and complies with VDI 6022. It has a recognised hygiene certificate.

Energy-saving cooling

Humidifying at high pressure also means cooling at the same time; and with the least amount of energy. Because adiabatic cooling makes use of nature: Water changes its physical state through atomisation. It needs energy to do this – energy that it extracts from the air: The air cools down. FINESTFOG systems are used to reduce temperature peaks. In heat-intensive production areas, the temperature reduction can be up to 5 °C.

The patented FINESTFOG nozzle

The hand-finished original atomises water into the finest aerosols.

The FINESTFOG single-substance nozzle is the heart of a FINESTFOG high-pressure system. Made of high-quality stainless steel, hand-finished and with an engraving that shows: This patented nozzle is developed and produced exclusively by FINESTFOG.

What makes it special is its inner workings and a special bore. Both result in the unique atomisation pattern: Without carrier-air and almost noiselessly, the nozzle atomises water into extremely fine aerosols, which are quickly absorbed by the air. A non-return spring prevents water from dripping. Optionally, a swivel joint ensures adaptability in any direction.

The FINESTFOG consultants analyse and calculate the required humidification output. Depending on the room size, room height and available space, the choice is made between six different nozzles: Their differences in nozzle insert and nozzle bore allow precise adjustment of the humidification performance. For example, FINESTFOG high-pressure nozzles are used in low open-plan offices as well as in high production halls and powerful ventilation systems.





Precision in the nano range

The mechanical bore of 100-270 microns and the nozzle insert ensure the precise and continuous flow of water.



100 µm: 1.1 litres/hour



150 µm: 2.0 litres/hour



200 µm: 3.0 litres/hour



220 µm: 4.6 litres/hour



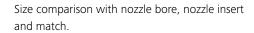
250 µm: 6.3 litres/hour



270 µm: 8.4 litres/hour

5-year warranty

In conjunction with a maintenance contract, a five-year warranty applies to each individual nozzle. The engraved year stamp is the reference for this.







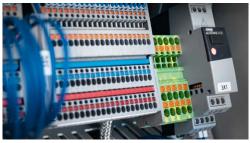
The FINESTFOG central unit

Control and pump – the brain and heart of the plant system.

OTH. FINEST**FOG** entik (1)

The control unit and pump on a solid stainless steel support together form the central unit of a FINESTFOG system. It controls the climate in up to





ten separate humidification zones and, in addition to air humidification, also takes over the control of a FINESTFOG water treatment system if required.

Their performance can be individually adapted to each project. Up to 800 litres of humidifier water per hour can be specifically placed under high pressure.

The operating parameters are collected continuously and in real time and can be conveniently controlled via the high-resolution 7-inch colour touch screen of the control system. With Siemens PLC S71200 or Eaton Moeller PLC E4, there are two options available. The central unit is delivered electrically tested and ready to plug in.

High-pressure water for up to ten separate climate zones.

FINESTFOG high-pressure pumps are durable piston pumps. They generate a uniform pressure of 80 bar and supply the individual zones with pressurised water. The pumps are designed in capacities from 60-800 litres per hour.

Durable piston pumps

A pressure sensor and a frequency converter regulate the motor speed and the pump exactly as needed. This means that the pump only delivers as much water as is currently needed. This saves energy and protects the pump.

High-quality stainless steel solenoid valves open and close the individual humidifier zones as required. Each zone has a humidifier valve as well as a relief valve. Periodic hygiene flushing is also carried out via these valves.

Save energy and water



The FINESTFOG compact system

Humidify smaller volumes with the expertise from the large ones.

Where air humidification is required in only one and not several zones, the FINESTFOG 'Micro' system is used. It combines the well-established advantages of FINESTFOG technology in a compact design. Despite its compact nature, its pump is powerful enough to supply even larger rooms. And this system is also suitable for direct material humidification.

- > Energy-saving high-pressure pump with up to 60 litres output per hour
- > Fully automatic operation via precise humidity controller with illuminated display
- > Integrated hygiene flushing, fault indication













Pump and nozzle variants to suit every type of room.

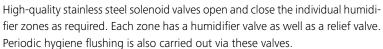
FINESTFOG high-pressure pumps are durable piston pumps. They generate a uniform pressure of 80 bar and supply the individual zones with pressurised water. The pumps are designed in different capacities from 60-800 litres per hour.

A pressure sensor and a frequency converter regulate the motor speed and the pump exactly as needed. This means that the pump only delivers as much water as is currently needed. This saves energy and protects the pump.



Durable piston pumps

Save energy and water







FINESTFOG digital control technology

Access to essential climate values from any place at any time.





Industry 4.0 – already a reality at FINESTFOG: Digital control technology brings operators and producers closer together. FINESTFOG does this by evaluating the operating conditions of the entire system as a database together with the operator. Afterwards, the support is individually adapted to the operator's needs and the products are further optimised for the benefit of the operator.

FINESTFOG systems humidify fully automatically and display all operating parameters transparently: either via a PLC from Eaton Moeller (E4) or Siemens (S7 1200). Both variants can be equipped with network functionality. If, for example, an Eaton Moeller E4 is connected to the network, the control can be mirrored to any operator PC. Operation via a tablet or smartphone is also possible.

FINESTFOG can provide real-time support via an accepted remote client (e.g. TeamViewer). Our technical department evaluates all system parameters in the FINESTFOG technical centre, provides assistance, detects faults and can initiate the necessary measures.



Humidify zone by zone with precise measuring and control technology.

An example from practice: The digital humidity and temperature sensor measures the humidity and temperature in rooms and shows the values on the large, illuminated display.

From "Actual" to "Target" fully automatically









The desired target humidity is entered on the 7-inch touch screen. All operating parameters of the air humidification and water treatment are displayed there. In the overview, the operator can see, among other things, which area is active and which solenoid valve is open or closed; the quality of the pure water is displayed and also information on when the UV-C lamp needs to be changed.





FINESTFOG pure water system

Improve climate and manufacturing quality with controlled water quality.





FINESTFOG supplies compact, ready-to-connect water treatment technology based on the principle of reverse osmosis: Water passes through a semi-permeable membrane under pressure; all solids such as magnesium, calcium, germs, bacteria and other impurities are almost completely removed and discharged as concentrate. The pure water obtained in this way is up to 99% desalinated, practically germ-free and can be used in a variety of ways: Hygienic air humidification, for example in quality-conscious print shops, is fed by a FINESTFOG pure water system. The same system simultaneously supplies the printing machines with process water.





Lots of pure water, very little waste water

The heart of the pure water system is the FINESTFOG osmosis module. The high-quality wound membrane inside is specially designed for high efficiency and long service life. Different capacities from 100-1,000 litres of pure water per hour and the possible use of several osmosis modules enable FINESTFOG water treatment systems to be adapted to every need.



Effective osmosis systems integrated or stand-alone for any room size.

Finestfog system modules can be combined with each other: So, the fully automatic operation of the water treatment is controlled by the central humidification unit. Alternatively, a stand-alone solution is also available: A system with integrated control produces pure water for every application completely independently.

All operating parameters can be called up via the digital display and, together with the transparent design, offer optimum control. Flow meters for pure water and concentrate provide information about the efficiency of the system. A conductivity sensor ensures the highest water quality. A pre-alarm and alarm ensure that excessive conductivity values cannot lead to problems. A calibrated water meter indicates the amount of pure water produced.

The closed system with only a small amount of water in the pressure tank prevents contamination of the water. The rest of the safety is provided by an integrated sterilisation system: UV light irradiation at the end of the process protects against germs and bacteria.

System integration cosy advantage

Economy through control

Excellent hygiene



Compact osmosis plant

Water treatment in stainless steel housing with operating display. Clean water capacity up to 100 litres per hour.



FINESTFOG water softening

Fully automatic ion exchangers produce soft water.

No calcification, no blockages

Compact and ready to connect – that's how FINESTFOG soft water technology works: Tap water flows through a column filled with cation exchange resin. Magnesium (Mg²+) and calcium (Ca²+) are exchanged for an equivalent amount of sodium ions (Na+). The water softened in this way now contains correspondingly more sodium salt (common salt), but hardly any magnesium and calcium. Both are known to cause hardness. Exhausted exchanger resin is automatically regenerated by regenerating salt from the storage tank. In humidification systems, sodium ions prevent calcification and blocking of the nozzles. In reverse osmosis systems, softening systems are used to pre-treat the service water.





Soft water without electricity

A FINESTFOG softening system produces soft water completely without electricity. The patented Kinetico regeneration head (fig. top left) is controlled only by the water flow. The salt deficiency sensor (fig. top right) indicates in good time that tablets of table salt need to be refilled. Different hardness range discs turn any water, no matter how hard, into soft water with 0°dH. Its variable column size makes the unit a reliable soft water factory for almost any amount of water.



Humidify air economically

Humidify and cool at the same time with minimum energy input.

FINESTFOG air humidification systems atomise water via high pressure (80 bar) to form extremely fine aerosols that are quickly absorbed by the air. The energy requirement is limited to the motor power of the high-pressure pumps and is extremely low: It ranges from only 0.5 to 3.0 kW per hour of continuous operation (depending on the pump size).

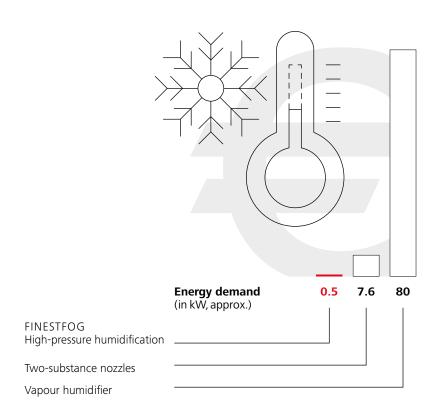
Atomisation changes water from a liquid to a gaseous state. This change of state requires energy, which it extracts from the ambient air – the air cools down (adiabatic cooling). This effect is increasingly used to reduce high temperatures in production halls. Here, air humidification is used to reduce temperature peaks – with minimal energy input. In this way, cooling systems can be effectively supported and high amounts of energy can be saved at peak load times. In certain cases, adiabatic cooling can even replace conventional air conditioning.

90% energy saving: FINESTFOG single-substance nozzles atomise pure water at high pressure without carrier air. The waste due to expensive compressed air compression, fans or other aids is eliminated.

For comparison: 100 litres of water are atomised per hour. A FINESTFOG high-pressure system requires only approx. 0.5 kW of motor power. Two-substance nozzles (water + compressed air) consume approx. 7.6 kW for the same humidification performance. A vapour humidifier would have to use approx. 80 kW of electricity!

Humidify and cool at the same time

90% energy saving



Regulation, development and certification

Optimum hygiene at every point of the humidification process is paramount.

Optimierte
Luftbefeuchtung
Optimized



Highest quality award: 'Optimized Air Humidification' Seal of Approval

Air Humidification

The basis of certification is always the GS test seal



Independent information on air humidification can be obtained from the DGUV

Optimal hygiene results from the interplay of regulation, development and certification. Certification creates orientation – its misuse can damage industry progress. FINESTFOG consolidates this attitude by developing and combining technical innovations into an effective concept.

The FINESTFOG hygiene concept is unique

Closed water circuit – air does not come into contact with the water before atomisation

- > High-purity humidifier water through reverse osmosis system and UV disinfection
- > Periodic flushing of each humidifier zone prevents water from standing in the pipes for too long
- > Monitoring of UV lamps, conductance of pure water

The test certificate of the German Statutory Accident Insurance [DGUV] and BG ETEM 'optimised air humidification' is the highest quality award for an air humidification system. Air humidification and water treatment should always have the following features in order to really fulfil the criteria of the certification:

- > Humidification as well as water treatment must be from one manufacturer
- > Continuous checking of the pure water quality with pre-alarm and alarm
- > UV disinfection with daily counter and current monitoring
- > Closed water system
- > Periodic hygienic flushing of all humidification lines to prevent water standing in the system for a long time
- > Hygienic flushing every time the system is restarted
- > Digital maintenance notice
- > Regular maintenance and hygiene test of the system by qualified personnel from the manufacturer

FINESTFOG's investments go even further

- > Lifetime warranty on all water-bearing parts in the course of maintenance
- > Long-term hygiene study, running since 2004(!) on a FINESTFOG air humidification system installed since that time
- > On request: On-site plant and operator certification by certified RLQ managers



FINESTFOG air humidification systems can be individually certified by the operator in accordance with VDI requirements



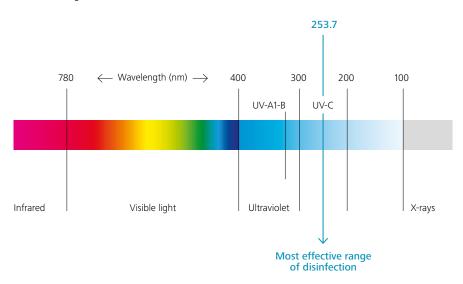
Unique long-term study since 2004: GBA Hamburg has been testing a FINESTFOG humidifier in practice for 19 years

FINESTFOG UV disinfection

Prevent contamination with UV-C rays.

Optimal prophylaxis: The high-intensity UV disinfection protects against bacteria, yeasts, moulds and legionella. The compact design of the UV disinfection is ideal for filtration directly at the point of use. The clean water stored in the storage tank flows through the UV disinfection system before the water is pressurised by the high-pressure pump.

The very high-energy UV-C light triggers a photochemical reaction. Wavelengths of 253.7 nm are absorbed by the cell nucleic acids killing or damaging the micro-organisms.



The high-performance UV-C lamps reduce bacteria and viruses by 99.9%. This makes them particularly suitable for highly effective purification of water for air humidification. Irradiating the purified water with intense UV light largely prevents the formation of germs and bacteria.

Other features

- > Flow rate 100 2,000 litres per hour
- > Polished stainless steel working chamber, suitable for laboratory and medical applications
- > Lamp failure indicator
- > Digital day counter shows how long the radiator will continue to work effectively

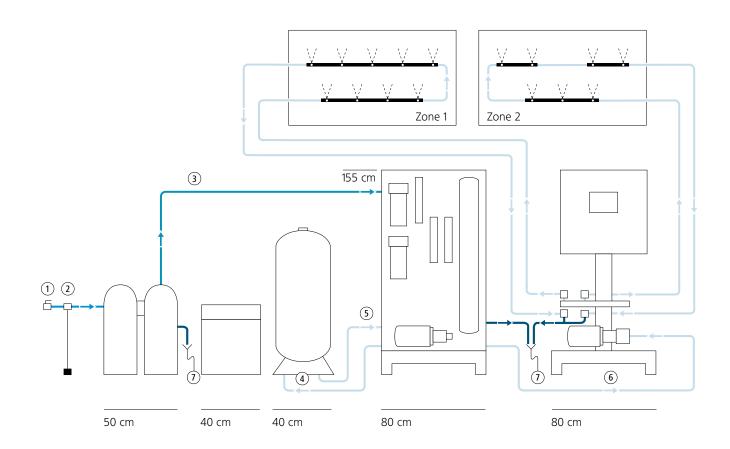
Health through light

Bacteria and virus reduction



The FINESTFOG system in use

Networked components combined as needed.



- Tap water
- Softened water
- Pure water
- Drain line

- 1 Tap water
- 2) Sensor with solenoid valve for leakage detection
- 3 Softened water 0°dH for osmosis plant
- 4 Pure water to the storage tank
- (5) Line from tank to UV disinfection
- 6 Pure water after UV disinfection to the high-pressure pump
- (7) Wastewater connection

Modular system design

FINESTFOG thinks systemically, once systems have been installed they are open to retrofitting and expansion on a modular basis. A FINESTFOG water treatment system can be retrofitted at any time. Or a system can be scaled up at a later date: For one installation, humidification of only two areas was initially planned, then it was to be expanded by three zones. This is when the modular concept really pays off: The FINESTFOG software receives an update, the hardware is expanded without any problems, and from now on the system produces the target climate fully automatically in all five zones.

Application spectrum from A for Automotive industry to Z for Zoo.



- > Newspaper printing works
- > Hellabrunn Zoo
- > Textile industry
- > Timber industry

- > Tram depot
- > Window construction paint shop
- > Piano sales room
- > Humidification via ventilation systems
- > Paint shops
- > Newspaper printing works
- > Paper web moistening
- > Printing industry

Finest fog 'Made in Germany'

Based in Ottobrunn - at home worldwide.

Competence since 1994

FINESTFOG GmbH is one of the leading manufacturers of air humidification systems in Europe. The owner-managed company was founded in 1994. At that time still the general importer of a Danish manufacturer, the two-man operation developed into an independent manufacturer's sales organisation with more than 25 employees.

FINESTFOG has been producing high-pressure humidification systems since 2002, and reverse osmosis systems have also been manufactured at FINESTFOG since 2006.

Everything from one source

With its headquarters in Ottobrunn near Munich, the company adapted its location to its continuous growth in 2010: With an area of more than 1,100 m², everything is located here under one roof with development, planning, production and sales coordination. FINESTFOG systems are always installed by our own technicians, who also provide a professional service for maintenance and faults after installation.

Throughout Germany, qualified FINESTFOG technical advisors are available to assist customers and interested parties. Internationally, FINESTFOG maintains numerous agencies with their own sales and technical support.

At the leading international trade fairs, FINESTFOG presents its product range and is available to provide advice and assistance to interested visitors.



Excerpt from the customer list with over 1,500 customers in Europe and throughout the world.

- > ADA FURNITURE, Anger (A)
- > AGC Glass in Portugal, France and Germany
- > AGFA, Toronto (CA)
- > Airbus sites in Hamburg and Donauwörth (D)
- > Allianz AG, Bremen (D)
- > Alpha SAS, Peaugres (F)
- > Anita Dr. Helbig GmbH, Brannenburg (D)
- > Arri AG, Munich (D)
- > Arvato Supply Chain Solutions, Harsewinkel (D)
- > Ascutec GmbH&Co.KG, Nuremberg (D)
- ASS Altenburger playing card factory, Altenburg (D)
- > Ateliers Perrault, Mauges sur Loire (F)
- > Bauerfeind AG, Zeulenroda and Gera (D)
- > BECOM, Hochstrass (A)
- > Benecke-Kaliko AG, Hanover (D)
- > BHS corrugated Maschinen- und Anlagenbau GmbH, Weiherhammer (D)
- > Educational Centre of the HWK for Upper Bavaria, Altötting (D)
- > Blanke Türenwerke, Bad Iburg (D)
- > Bonifatius printing, Paderborn (D)
- > Bühnen, Cologne (D)
- > Burda printing Nürnberg GmbH&Co.KG, Nuremberg (D)
- > Cardbox, Pennsylvania, (USA)
- > Carl Edelmann GmbH, Heidenheim(D)
- > Cartamundi, Waterford, (IR)
- > CEWE Color in Germany and France
- > CIMA, St. Peter a. W. (A)
- > Cordes Holz, Bremerhaven (D)
- > DANAKIL Urwaldhaus Egapark, Erfurt (D)
- > dataport AöR, Kiel-Altenholz (D)
- Dätwyler Pharma Packaging
 Deutschland GmbH, Karlsbad (D)
- > Druckhaus Harms, Groß Oesingen (D)
- > DS Smith Packaging, Fulda and Erlensee plants (D)
- > Egger Druck & Medien GmbH, Landsberg am Lech (D)
- > EPL, Międzyrzecz, (PL)
- > EXCEET CARD, Kematen (A)
- > FALKE hosiery factory, Zwönitz (D)
- > FEINJERSEY, Götzis (A)

- > FingerTreppen Finger-Holzbau, Frankenberg/Eder (D)
- > Fronius International, Sattledt (A)
- > Fundermax, Wiener Neudorf (A)
- > Glatfelter, Steinfurt and Falkenhagen (D)
- > Goodyear Germany GmbH, Hanau (D)
- > Gramann Printpartner XXL, Vechta (D)
- > Gundlach packaging, Oerlinghausen (D)
- > harder-online/labelprint24.com, Zeithain (D)
- > HAUS DER MUSIK, Innsbruck (A)
- > Hobby caravan factory, Fockbek (D)
- > Höller GmbH, Laives (I)
- > Holzwerke Ladenburger, Geithain and Bopfingen (D)
- > Hyosung, Colmar Berg, (LU)
- > ICEA, Genoa (IT)
- > IDEAL Automotive, Oelsnitz (D)
- > INTERCORD, Mühlhausen (D)
- > Isovolta, Wiener Neudorf (A)
- > ISRA CARDS, Mours-Saint-Eusèbe (F)
- > Karl Conzelmann GmbH & Co.KG, Albstadt (D)
- > Kerker printing, Kaiserslautern (D)
- > Knaus Tabbert, Jandelsbrunn (D)
- > Komitec electronic, Zwönitz (D)
- > Konica Minolta, Carrières sur Seine (F)
- > König & Bauer, Radebeul (D)
- > KONZERTHAUS, Klagenfurt (A)
- > Laub GmbH&Co.KG, Elztal (D)
- > LMC Caravan, Sassenberg (D)
- > LOHMANN & RAUSCHER, Schönau a.d.T. (A)
- > Magmapack, Sofia, (BG)
- > Mank GmbH, Dernbach (D)
- > Max Bögl Wind AG Sengenthal (D)
- > MCC Multi-Color Bingen, Bingen (D)
- > Mediadruckwerk Group, Hamburg (D)
- > Medialis Offsetdruck, Berlin (D)
- Menuiserie Bourneuf, Groupe Lorillard, Parigné-l'Évêque (F)
- > Menuiserie Couval, Groupe Hilzinger, Rupt sur Moselle (F)
- > MM Packaging Behrens, Alfeld (D)
- > Mrowiec windows & doors, Fresenbrügge (D)
- > Multi Packaging Solution Düren/WestRock,
- > MV Pipe, Wittenberge (D)

- > Myposter GmbH, Bergkirchen (D)
- > Neumayr High-Tech Fassaden GmbH, Eggenfelden (D)
- > NEWAYS, Neunkirchen (D)
- > NMC s.a., Eynatten (BE)
- > Oldenburger INTERIOR, Dinklage (D)
- > Onlineprinters GmbH, Neustadt a.d. Aisch (D)
- > OTEX textil finishing, Flöha (D)
- > Pinguin printing, Berlin (D)
- > Polyvlies Franz Beyer, Hörstel-Bevergen (D)
- > PPO GRAPHIUS, Palaiseau (F)
- > ProPlace, Slovenia (SLO)
- > Prüm Türenwerk, Weinsheim/Eifel (D)
- > PUSTERLA1880, Cherré-Au (F)
- Reemtsma cigarette factories, Langenhagen (D)
- > rekord windows & doors, Dägeling (D)
- > Remmers GmbH, Löningen (D)
- > Rettenmeier Holzindustrie Hirschberg GmbH (D)
- > RHIEM Packaging & Print, Voerde (D)
- > ROMA KG Burgau (D)
- > RUBNER plants in South Tyrol and Austria
- > Saarpor, Neunkirchen (D)
- > Schur Pack Germany, Gallin (D)
- > SELIT-TEC Insulation Systems, Erbes-Büdesheim (D)
- > Sonae Arauco Germany, Meppen (D)
- > Spechtenhauser windows, furniture, glass, Innsbruck (A)
- > Steinway & Sons, Hamburg (D)
- > TEAM 7, Pram (A)
- > TENOWO, Mittweida (D)
- > Thales Germany, Arnstadt (D)
- > TILO, Lohnsburg (A)
- > TQ-Systems, Peiting and Penzberg (D)
- > Tyrolit, Schwaz (A)
- > Westag AG, Wadersloh (D)
- > WIEHAG, Altheim (A)
- > Wilhelm Kneitz AG, Wirsberg (D)
- > Willi Curdt & Co Tischlerei, Hamburg (D)

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