

Schedel Group





Executive partners, Markus and Oliver Schedel

The SCHEDER Group – as a family-owned-and-operated company, we have turned our expertise gained from experience, our innovation, and our profound sense of responsibility into the guiding principles of everything we do on an economic, ecological and social level.

Our exceptional employees are our greatest asset

Marked by unshakable trust and flat hierarchies, our managerial style is intended to allow each member of our staff to fully develop their abilities and challenge them with interesting tasks that carry considerable responsibility in a social environment.

We accept nothing but impeccable quality

The requests of our customers are our challenge, and striving for perfection is our impetus. The unrivalled quality of our products is guaranteed at all levels of the value creation chain by certified quality management systems.

Our gaze is firmly pointed into the future

We welcome the challenges our business is facing in this day and age. We keep pushing forward towards digitisation and Industry 4.0. We attach primary importance to sustainability and a responsible use of resources with regard to both the development of new products and the manufacturing processes we apply. We understand that the foundation for continued growth is formed by respect and fairness, mutual appreciation between business partners and employees and a holistic approach.

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The SCHEDEL GROUP

The SCHEDEL group of companies is a 100% family-run company.
The range of goods encompasses individual products and solutions
– whether in airpop® (EPS), EPP, EPE, Piocelan, E-TPU or ecovio®.



PRODUCTION LOCATIONS:



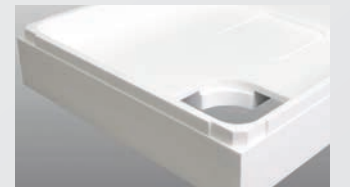
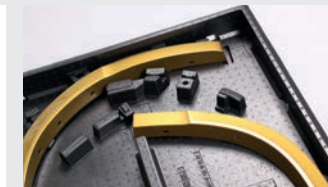
FALKENSTEIN



NEUENSALZ



CADOLZBURG



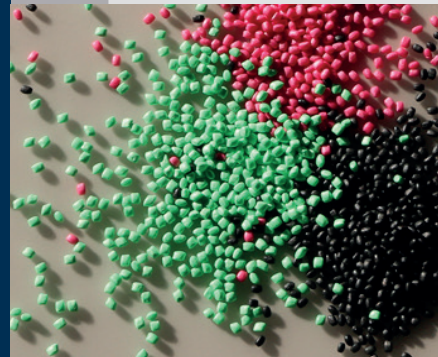
The SCHEDEL group of companies can look back on 40 years of experience in processing particle foams. After starting out and establishing themselves as the market leader with their plants in Johannesburg and Cape Town, SCHEDEL has been expanding in Germany since 1991.

The company focuses on the development and production of technical mouldings and packaging.

Since 1993, the business domain of Bath + Design has been offering an extensive product selection in the area of sanitary equipment. In 1996, SCHEDEL acquires Jacob-Formschaumtechnik GmbH in Cadolzburg. The product range is expanded by the processing of EPP and EPE foams as well as of other high-performance particle foams in an effort to accommodate individual customer requirements with even greater flexibility.

Our innovation and prime concern for quality guarantee modern products of flawless excellence.

The MATERIAL



EPP (expanded polypropylene)

The perfect solution to even the most challenging tasks, this material contains – apart from synthetic material – 96 % air, making it an attractive choice for highly specific fields of application. In addition to black and white, EPP is also available in solid colours, and can be made electrically conductive.



EPS (expanded polystyrene)

Made widely known by BASF under the trade name of Styrofoam, this material has been communicated to the world as airpop-engineered air for years. airpop® consists of 98 % air and only a minimum portion of synthetic material capable of expanding to 50 times its own volume, thus protecting anything that requires good and proper protection. An essential material for a great many areas of application.



EPE (expanded polyethylene)

Boasting properties similar to EPP, EPE offers enhanced energy absorption as well as a softer surface, which makes this material an exceptionally good choice for receiving and protecting parts that are sensitive to impact, vibrations and scratching.



ECOVIO® (based on maize starch)

With ecovio®, BASF is offering a biodegradable plastic that also possesses a variable portion of renewable raw materials. The organic portion of the material can be tailored to the customer's specific needs. ecovio® is composed of the compostable and biodegradable BASF plastic ecoflex® and polylactic acid (PLA), which is harnessed from maize and other sugar-generating plants such as manioc. Unlike purely starch-based bioplastics, ecovio® offers, among others, the distinct advantage of being more resistant to mechanical stress and moisture.



E-TPU Infinergy®

(expanded thermoplastic polyurethane)
Infinergy® retains its elasticity and softness across a wide range of temperatures. Better yet, it also boasts exceptionally high restoring force, great elongation at break as well as outstanding tensile strength, abrasion resistance and high resistance to chemicals. The material is ideal for use as an insulating element in a variety of industries and sectors.



PIOCELAN®

(expanded polystyrene with polyolefin)
The successful mixing of two components results in the perfect blend of their positive properties. The excellent impact characteristics and rigidity of polystyrene are joined with the flexible properties of polyolefin in a material that delivers improved resistance to chemicals.

PRODUCT SEGMENTS

Our moulded part products include load carriers, pallets for small parts and packaging for high-quality goods, insulated containers, technical parts as well as energy-absorbing moulded parts and housing parts for industrial customers. The areas of expertise are in the development with CAD programs, proprietary prototype construction as well as in the manufacture and assembly of series parts from particle foam.

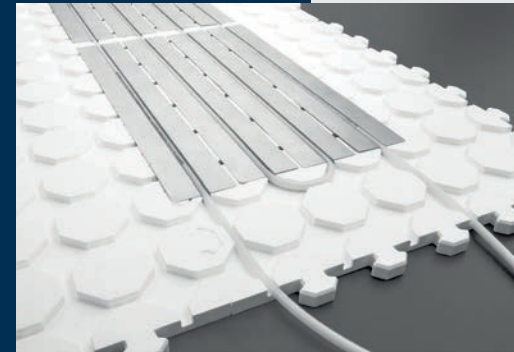


A selection of our product range



DISPATCH TRAYS / LOAD CARRIERS

*exact adjustment to the
specific shape and dimensions
of the inserted parts*



INSULATION PANELS

Roof and floor insulation panels in composite systems



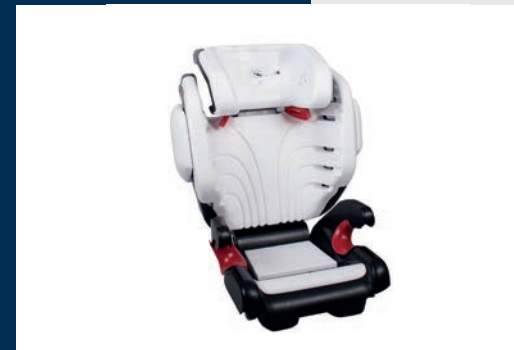
INSULATED CONTAINERS

Protection against loss of heat and cold



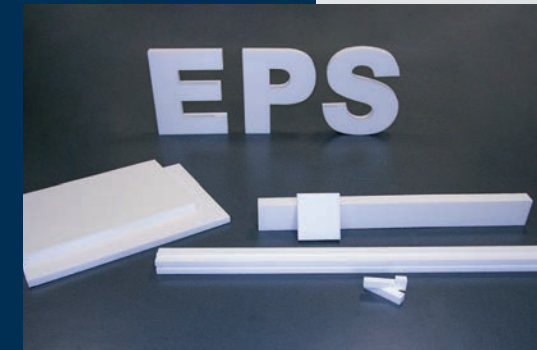
TRANSPORT PROTECTION

ideal protection for breakable products, packaging corners with predetermined breaking points and shock absorption ribs



SAFETY TECHNOLOGY

Components with optimum safety and protective properties



CONTRACT PIECES

Specially produced contour parts or simple pre-cut parts

PRODUCT SEGMENTS

Within SCHEDEL Group, Jacob Formschaumtechnik GmbH is specialised in the development and production of customised parts made of EPP, EPE, E-TPU, Piocelan and ecovio® – with sizes of up to 2,000 x 1,400 mm from one tool. The product range extends from load carriers to pallets for small parts, packaging for high-quality goods, insulated containers and technical parts to energy-absorbing moulded parts and housing parts.



Stand-up stools, designer product with major health benefits



DISPATCH TRAYS / LOAD CARRIERS

*perfect product protection
thanks to stackable, reusable
solutions*



TECHNICAL MOULDINGS

*a wide variety of designs and
applications thanks to diverse
material properties*



JACOBLOCK

*EPP and EPE blocks with a size
of 1800x1200x150 mm and
densities ranging from 20-60 g/l*



JACOBBOX

*Use in all areas of food trans-
portation or for transporting
pharmaceutical products*



HOUSING PARTS

*for heating, ventilation and
air-conditioning systems*



DESIGN ELEMENTS

*Modular rack systems, ultra
light, versatile, and customi-
sable for individual use cases*

Custom solutions tailored to your specific applications

INDUSTRY

- Dispatch trays
- Protective transport packaging
- Packaging corners/
angle profiles

AUTOMOTIVE

- Load carriers
- Car seat/seat components
- Vehicle roof

AIR CONDITIONING/ HEATING

- Housing and pipe ducts
- Condensation protectors
- Insulated trays

PHARMACEUTICAL

- Special packaging
- Housings

FOOD

- Food storage boxes
- Gastronorm Thermoboxes
- Insulated containers

CONSTRUCTION

- Roof insulation panels
- Floor insulation
- Facade insulation

DESIGN

- Sporting goods
- Racks
- Stools

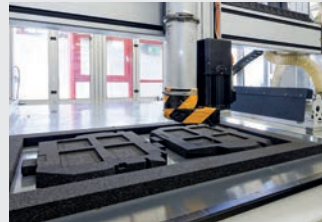
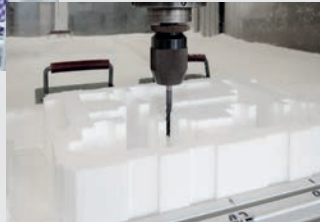
AEROSPACE

- Insulation systems
- Seats



SERVICES

Moulded parts are as diverse as their potential applications in the various industries. The precise realisation of specific products for optimum handling and greatest possible efficiency is therefore all the more important.



- In-house development/design
(CAD Software *CatiaV5*, *Inventor 2017*, *SolidWorks* & *Siemens NX*)
- Production of milled samples
- Leak test
- Foam fabrication of parts made of EPS, EPP, EPE, E-TPU, Piocelan, and ecovio®
- Manufacture of foam fabricated parts and installation of assemblies
- Production ranging from small quantities to large-scale volume production

Our team works side by side with the customer to convert projects for new moulded parts from an idea into series production. Planning is often conducted on site to ensure that the sample fulfils the specifications. At our design and development department, the prototypes are developed accurately to the dimensions from the drawings.

Short production routes and modern facilities allow functional models/samples to be created quickly. Series production of the parts begins only after approval by the customer. In addition to the prototype construction, CNC milling machines also enable small and medium series production.

QUALITY POLICY

Decades of experience, consistent quality management, and a continuous improvement process make us a reliable and professional partner.

Customer satisfaction hinges on our ability to ensure unwavering customer focus and attractive products. Quality from the start!

We guarantee the quality of our products by planning all measures required before and during order processing and by systematically monitoring all processes from the start to the finish of the product's generation.

Dedicated, expertly trained and experienced employees who identify with the company are the most valuable asset to our business. Targeted training measures promote independent acting and strengthen motivation and team spirit. Our versatile employees enable us to satisfy the requirements and requests of our customers to the highest degree possible. Regular training and advanced qualification classes bolster quality awareness.

Certified in accordance with standard DIN EN ISO 9001:2015, our quality management system is applied to all processes and workflows necessary to implement our quality policy.

The design of our manufacturing processes and products is rooted in the efficient and economical use of energy, fossil fuels and water. This approach includes the objective to avoid, reduce and recycle waste. Compliance with all statutory and internal requirements pertaining to the protection of the environment is deemed an obvious requirement by our company.

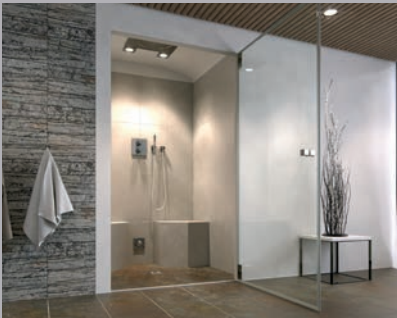


Discover our other airpop® (EPS) innovations

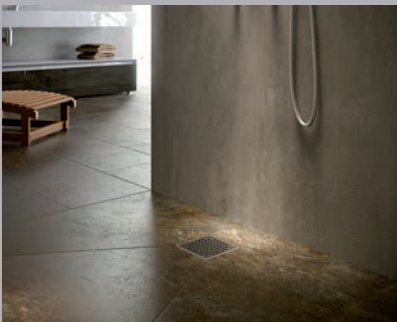
The Bath+Design business domain offers its customers an extensive range of products: MULTISTAR® shower and tub supports, MULTISTAR® floor-level system solutions, MULTISTAR® steam cubicles with an integrated shower area and MULTISTAR® VISION - customised design elements made of airpop® (EPS). We see ourselves as a system provider with tailor-made solutions that make possible an individual high-comfort bath for any room situation. Our support service, close to our customers and professional as can be, also plays an important role. With innovation and the highest level of "Made in Germany" quality, we ensure attractive and premium products.



Bathtub and shower tray supports for more than 5,700 models



Steam cubicles (size S, M, and L) with an integrated shower area



Floor-level shower systems (point, linear and wall drainage)



Floor-level shower boards and wall niches made of mineral material as well as laminated glass panels



Flexible bathroom design thanks to standard VISION modules

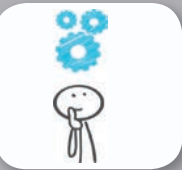


Seat coated with a mineral material finish (variant shown depicts connection with wall drain)

Using the basic airpop® (EPS) modules to plan your customised bathroom



How do I envision the bathroom of my dreams?
Create drawings, browse catalogues, ...



Where do I position my bathtub, shower area, wash basin, WC...?



3D bathroom planning with modules made by SCHEDEL. Turn the planning stage at the bathroom showroom into an event with just a few clicks!



ADVANTAGE:...no need for time-consuming discussions with other contractors, e.g. drywallers, tilers, bricklayers, etc.



The bathroom can be finished immediately following the quick, easy and clean installation of the VISION modules (no drying times).

What started with the bathtub support more than 25 years ago has evolved into a comprehensive range of sanitary equipment products. The material airpop® (EPS) provides for a host of innovative and customised design options. Requiring no effort at all, the necessary installation techniques help save time and money.

ENVIRONMENT



Aside from offering outstanding and unique mechanical properties, particle foams set themselves apart with their exceptional eco-efficiency. Ecologically safe, reusable and long-lasting, moulded parts made of particle foam are 100 % recyclable and can be fed back into the production chain.

The parts are produced using water vapour. The result of the production process are soft foams that are also free of harmful substances. Devoid of CFC and heavy metals, these foams are not hazardous to water and are safe to use in such sensitive areas as the food industry or the production of toys. The material is exceedingly appealing to today's automotive industry as it mar-

ries extra low weight with tremendous energy absorption, resulting in a reduction of exhaust gas emissions.

We work hard every day to improve the ecological footprint of the SCHEDEL Group by constantly optimising the technologies we employ. In addition to implementing the measures necessary to achieve this purpose, we operate our own plants for recycling used parts, and waste and retired EPP and EPS containers.



We can give you our guarantee that the airpop® (EPS) products we supply to our customers are entirely free of HBCD.

The airpop® (EPS) packaging materials requiring disposal are clean moulded parts or strips that are easily identifiable by their shape as packaging material.

The recycling of airpop® has been a well-established and highly eco-efficient process in Germany for many years, and is used to return this material back into the cycle. The recycling quota for airpop® in Germany currently stands at 56 per cent, which is exemplary within Europe.

RECYCLING



EPS, EPE and EPP are free of heavy metals and other toxic substances. They do not contain any greenhouse gases, problematic chemical additives or any other environmentally harmful substances, and do not emit any such substances into the environment. Foam beads are 98 % air. This makes EPS, EPP and EPE particularly environmentally friendly, thus enabling simple, complete recycling. Established collection and recycling systems return used parts and waste back into the raw-material cycle. They can therefore be reused as thermal insulation in the constructi-

on industry (insulating material for insulating plasters, expanded polystyrene concrete and brick production), for soil improvement in agriculture or for remelting into compact polystyrene. Of particular benefit to the environment is the fact that the specific properties of EPS, EPP and EPE allow the repeated use of the parts and also ensure a noticeable reduction in energy consumption and CO2 emissions.

Companies of the: **Schedel**
Group



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