



# INSIDE EXCELLENCE

Buss-SMS-Canzler GmbH



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# INSIDE EXCELLENCE

In a world that is striving for perfection we are the partner who can bring you closer to your goal than almost any other. With our plants, systems and reconceptualised solutions we have been setting standards in thermal separation technology for many years – and are your specialist for outstanding processing of mixtures which are difficult to handle.

We develop and construct plants and equipment for such processes as the evaporation, drying and processing of highly viscous materials. Solutions that are exactly as you need them – exceptionally precise, efficient and, when necessary, highly innovative.

We are true experts in many sectors of industry for which we have been supplying only the best quality plants and equipment for many years, drawing on our process and application know-how – from consultancy and process planning to engineering and manufacture and then on to service. Everything 100% Made in Germany and Switzerland – and always focussed on outstanding cost-effectiveness and protection for your investment.

This is why we are number 1 in thin film evaporation technology and a global leader in drying and high viscosity technology.

# SMART PROCESS ENGINEERING

**Starting out on the right track** is essential if you are to succeed. We have a unique wealth of technologies at our disposal, on which we can draw to produce an optimal solution for you – always with an eye for what you really need.

Whether in high viscosity, evaporation, drying or membrane technology, our wide technology portfolio enables us to develop and construct the best configuration for any task: from the selection of a suitable type of rotor through to complex systems.

And because we combine this with in-depth knowledge of many different industrial segments and technologies, many well-known, global names in a broad range of different industrial sectors rely on our products and services:

Agrochemicals – biochemical industry – foodstuffs industry – fibre industry – fine chemicals – bulk chemicals – plastics and polymer industry – oil and fat industry – pharmaceutical industry – petrochemicals – specialty chemicals – the environmental and energy industries.

*» We are the leading international supplier of process plants and equipment for the thermal separation of materials which are difficult to handle and we are also the world's number 1 in thin film evaporation technology.«*



### Evaporation technology

We offer the world's largest selection of thin film evaporators and build customer-specific equipment for the evaporation of materials which are difficult to process such as viscous, fouling and heat sensitive liquids.



### Drying technology

Depending on the requirement, we combine and customise drying processes and components to suit the product properties so that, for example, toxic or explosive materials can be safely and efficiently processed.



### High viscosity technology

Our thin film processors and large volume reactors for the manufacture and preparation of polymers are world leaders and guarantee the very highest quality and efficiency as well as excellent process results.



### Membrane technology

Our hybrid systems with membranes for vapour permeation and pervaporation ensure the efficient recovery and purification of mixtures and maximum purity of the end products.

## **SMART PROCESS** **ENGINEERING**

Using our extensive knowledge gained from practical experience and a commercial mind-set, we efficiently and pragmatically transform even complex requirements into smart solutions – from start to finish, from development to the commissioning of your equipment.



SMS customers can select from a wide range of technologies which we then link to our industry and process-specific engineering service. This combination generates optimal solutions which our offer of products and services can draw on precisely as needed for the order.

As a solution-provider we see »process technology« as an all-embracing task which starts with the identification of the customer's specific requirements and an intensive advisory process.

And whether a customer draws on the full range of the know-how of our highly-qualified and experienced engineers and goes through a comprehensive development process with us, or whether they prefer manufacture exactly to their specification: The result is always optimally coordinated and customised equipment or systems which very efficiently produce end-products of outstanding quality and purity.

Thanks to our experience and manufacturing capabilities we can also build exceptionally large thin film evaporators and dryers.

*» Customers continue to rely on our expertise even after manufacturing is complete, for instance for the installation of plants and equipment and their seamless integration into existing processes. «*

# THE GERMAN WAY OF JOINT INNOVATION

**Recognising innovation as continuous optimisation** – we call that real progress Made in Germany. Innovation is for us an evolutionary process which continuously creates added value for our customers – whether in small details or in major plants.

The scope for technological innovation seems to be limited where processes have performed successfully over the years. But it is precisely in these cases that we continuously achieve innovation, sometimes in minor details and components and sometimes in entire process steps as a result of our systematic focus on problem-solving and outstanding engineering expertise.

Inspired by your day-to-day business and a pioneering approach we have repeatedly created large scale, ground-breaking innovations which continue to exert an influence on our line of business.

In our CFD tool, for instance, we have developed unique software that can be used to visualise the processes inside thin film evaporators, therefore making the actual flow and material exchange conditions visible for the first time. We are thus able to simulate the entire evaporation process and achieve optimal separation processes through precise calculations.





*»For us, the prime meaning of innovation is working with our customers for the continuous enhancement of the functionality and efficiency of their plant – to achieve even better qualities of the separated materials.«*

## **THE GERMAN WAY OF JOINT INNOVATION**

**Whenever the customary solution no longer suffices, we cooperate** with our customers to break new ground: productive teamwork with our customers enables us to work with them to modify existing technologies and achieve innovations which are always efficient in their operation and add lasting value.



We have made it our business to reveal the potential in specific and changing customer requirements – and to effectively exploit these in conjunction with our customers. This close cooperation with our customers is therefore the driving force for the further development of our technologies and equipment.

*»In our Test Center we regularly test new processes and applications developed in cooperative innovation procedures with our customers.«*

We use the 20 pilot plants in our Test Center to conduct feasibility studies for our customers and collaborate with our partners in the analysis of the chemical properties of the end-products.

Our aim is always to develop solutions which exceed our customers' expectations and move their businesses forward over the long term.

# QUALITY POWERED BY EXPERIENCE

Our first-class plants and systems result from genuine specialisation and our wide-ranging knowledge of processes and techniques – and from an uncompromising and unparalleled search for quality.

SMS today combines the knowledge and skills of Sames-reuther-Müller-Schuss and Luwa as well as Canzler and Buss. The result for our customers is outstanding quality and the unusually long working life of our plants and equipment.

At SMS, quality is also 100% Made in Germany and a clear commitment to Quality Management. SMS products and processes meet all applicable and relevant quality standards, codes, guidelines and directives in our field of business.

SMS products are manufactured using the most demanding levels of workmanship to ensure that they reliably and safely perform their task. Our uncompromising search for quality is a guarantee of risk-free and reliable cooperation in projects of all sizes.



*» We know that our plants and equipment have an extensive working life and therefore ensure that we can supply you with spare parts for many years to come - even for the most customised machines. «*





*»Because everyone gives their best at SMS we meet the challenge of even complex orders and build the best plants and equipment. This is what makes us proud!«*

## **QUALITY POWERED** **BY EXPERIENCE**

**Our staff are pioneers and true experts in thermal separation technology.** With their excellent knowledge of process technology and their outstanding innovative capacity they form the foundation of the high-level technologies and processes offered by SMS.

Over 200 highly qualified and experienced experts work at our main site in Butzbach and our branches in Düren and Pratteln (Switzerland) to apply the SMS vision of excellence across all the sides of our business in their work for and with our customers.

Our staff create »Quality Made in Germany« in this visionary working atmosphere – a quality which is consistently changing our sector, efficiently supporting our customers' manufacturing processes and guaranteeing superb quality levels in their finished products.

We are always looking for new staff who want to explore new frontiers for our customers while working in the open and innovative environment of SMS – staff who are motivated to be pioneers and who set themselves the highest possible quality standards in their work. These are the building blocks that go to make up the excellence of SMS.

