

## Products & Services





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## KMPT – Advancing Separation Solutions

KMPT is the leading innovator in process technology for solid/liquid separation equipment. Our expertise comes from decades of experience supplying separation solutions for the chemical, pharmaceutical, environmental and mining industries.

KMPT designs, manufactures and services Krauss-Maffei Centrifuges, Filters and Dryers and engineers Systems individually tailored to your specific needs. We provide efficient technologies to reduce life cycle costs and environmental impact.

Krauss-Maffei Centrifuges, Filters and Dryers are renowned globally for quality and reliability. Our dynamic and flexible approach in assisting our clients makes KMPT a trustworthy partner throughout the service life of the equipment.

KMPT's comprehensive support comes from the dedicated staff in our engineering groups, test center and process automation team as well as from the skilled workers in our production facility. Our service centers all over the world provide spare parts and on-site assistance to keep your operation running smoothly.

Please refer to the back page for our worldwide company locations.



# A modern company with tradition

## KMPT, a new beginning

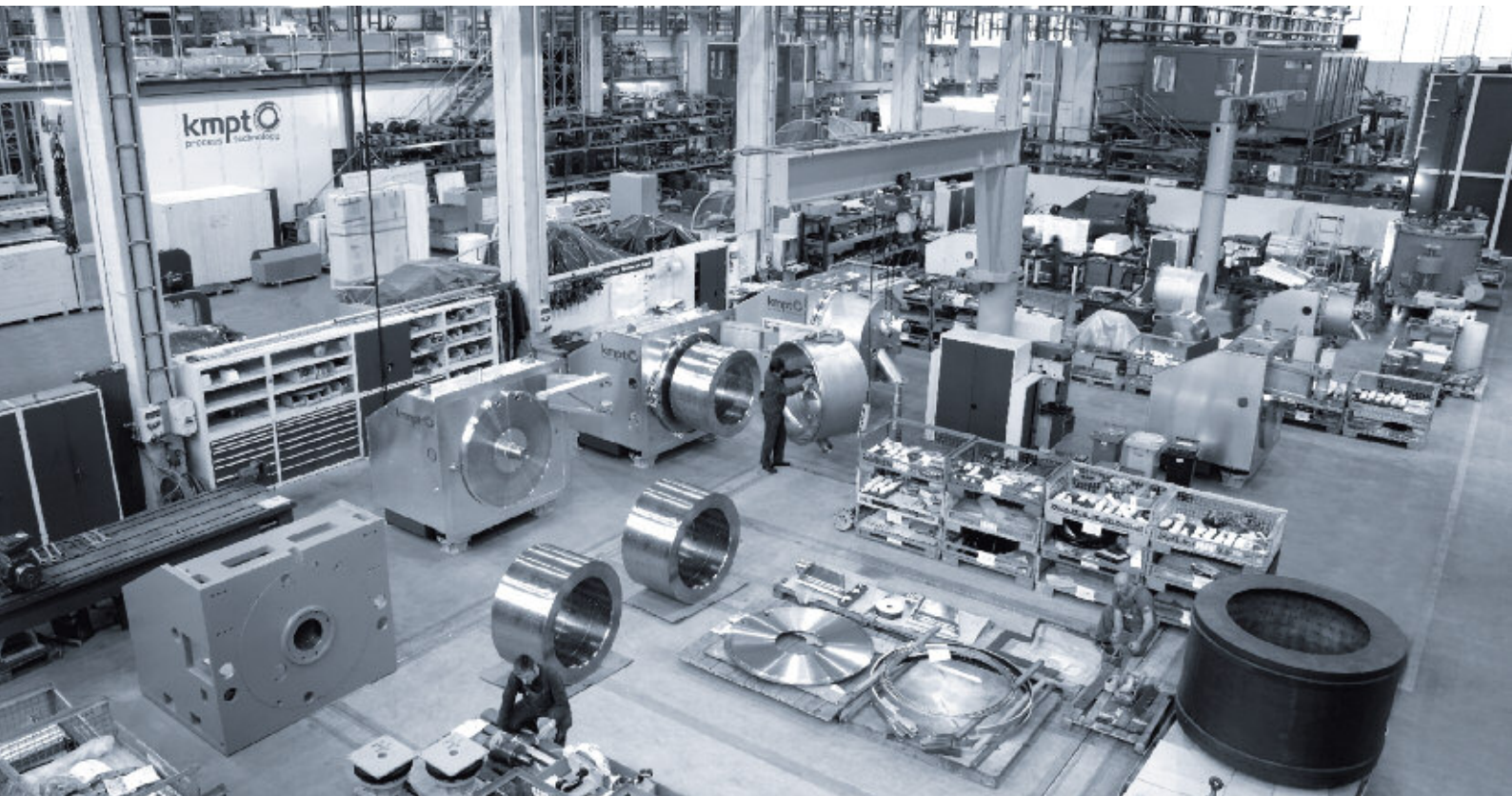
KMPT was founded in 2001 through a Management-Buy-Out from the former Mannesmann Demag Krauss-Maffei AG. The path to independence continued in 2003 when our daughter company in the US moved into newly built office and assembly facilities in Florence, KY. In the spring of 2006, the re-organization of KMPT was completed by the move to our new headquarters in Vierkirchen, near Munich, Germany. The new facility incorporates state-of-the-art manufacturing equipment and logistical systems.

## Tradition and experience

Longstanding tradition and decades of experience are at the core of KMPT's success. With the introduction of the first peeler centrifuge in 1928, the foundation was laid for the process technology business division at Krauss-Maffei. Since then, the company has been at the forefront of many new developments in the field of solid/liquid separation.

Recent examples:

- 1994** Peeler centrifuge with hinged, full opening housing; new pusher centrifuge series with pull-out rotor for easy maintenance
- 1997** Contact-free ultrasonic centrifuge feed controller
- 2000** Remote condition diagnostics for preventative maintenance
- 2001** New series of peeler centrifuges in pharma design
- 2003** Introduction of new bottom drive for the mixer dryer series; modularization of engineered systems
- 2004** New generation of vertical basket centrifuges
- 2005** Extension of the pusher centrifuge model range
- 2006** Conical dryer with top-driven helical mixing assembly
- 2007** Introduction of worlds largest pusher centrifuge
- 2007** New small size peeler centrifuge in pharma design
- 2007** New dynamic crossflow filter



# Dedication and know-how

## Our mission

We are dedicated to total customer satisfaction in providing the most efficient and economical solution for solid/liquid separation applications. From the inception of a project throughout the service life of their plants, clients benefit from our expertise and reliability of our technologically advanced, high-quality process equipment.

This extensive knowledge governs our process and equipment recommendations, all tailored to meet your specific demands with an optimum in performance and cost.

## Experience

For more than 75 years, KMPT has been a leader and innovator in the chemical process equipment industry. The profound experience of our engineers comes from testing more than 3000 products and putting over 9000 applications to work. Over 500 patents demonstrate our capacity for innovation.



## Our commitment – your success

Our knowledgeable personnel is ready to assist you from our headquarters in Germany or our daughter companies in the US, UK, France and Italy as well as our representative offices in China, Russia and India. We speak your language and are familiar with your specific requirements.

### Innovation

We are continuously improving our products and services to benefit our customers. New customer demands are quickly implemented in the development of new equipment. This is

how we became the leaders in solid/liquid separation technology.

### Constant high quality

Superior quality of your products, day after day, is assured by the performance and reliability of our equipment and systems. The knowledge and skills of our work force in engineering and manufacturing combined with rigorous checks and tests by our independent QA department guarantees that every product we deliver is of the highest standards.

## Reliability is our strength

Krauss-Maffei Centrifuges, Filters, Dryers and Systems are renowned for their reliable performance in the chemicals, pharmaceutical and related industries all over the world, giving clients the benefits of maximum availability, superior product quality and highest yields.

### Extensive after-sales support

Our comprehensive after-sales service provides support from installation and start-up through preventive maintenance and repairs. We optimize your process and train your operating personnel. We stock over 6,000 different spare parts, and upgrade your equipment to comply with the latest safety standards. And at the end of the service life, you can take advantage of our equipment buyback program.



# Applications

## Bulk chemicals

Ammonium sulfate, chlorides, soda, sodium chlorate, sodium chloride, sodium sulfate, etc.

## Plastics

ABS and POM, adipic acid, melamine, polycarbonate/bisphenol A, PE, PP, etc.

## Foodstuff and additives

Amino acids, caffeine, citric acid, coffee, lysine, starches, sweeteners, tea, vitamins, etc.

## Fine and specialty chemicals

Antioxidants, calcium carbonate, dyestuff, liquid crystals, pigments, silver compounds, etc.

## Minerals and mining

Alumina, borax/boric acid, coal, lithium compounds, potassium chloride, etc.

## Agrochemicals

Fertilizers, fungicides, herbicides, insecticides, etc.

## Pharmaceuticals

Antibiotics, API's, intermediates, painkillers, etc.

## Environmental protection

Gypsum and ammonium sulfate from FGD scrubber systems in power stations, waste incineration systems and cement plants, neutralization systems in copper refining plants, etc.

## Related Equipment

<b>Krauss-Maffei Centrifuges</b>									
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Bulk chemicals

Fine and specialty chemicals

Agrochemicals

Plastics

Pharmaceuticals

Foodstuff and additives

Minerals and mining

Environmental protection

# Technology you can depend on

## Krauss-Maffei Horizontal Peeler Centrifuge HZ

Whether in the chemicals, pharmaceutical or food industry, our horizontal peeler centrifuges have always excelled. They are known for reliable operation at high capacities.

- **Low residual moisture contents** achieved by high spin speeds.
- **High flexibility for meeting** changing process conditions.

## Peeler centrifuges with rotary siphon

The design with rotary siphon offers substantial advantages:

- **Increased filtration capacity** by generating a vacuum beneath the filter medium.
- **High product purity** by varying the contact time between the solids and wash liquor.
- **Prolonged life of the residual heel** by regeneration through backwashing.



### Operating principle

Filtration or sedimentation

### Operating mode

Batch-type

### Basket diameter

250, 400, 630, 800, 1000, 1250, 1600, 1800 mm

### Basket volume

2 – 1400 l

### Filter area

0.1 – 7.1 m<sup>2</sup>

### Solids content

From 3 % wt

### Average particle size

2 - 500 µm

### Solids throughput

Up to 15 t/h

### Wash efficiency

Excellent

### Solids recovery

Almost 100 %

### Major applications

- Amino acids
- Antioxidants
- Chlorides
- Citric acid
- Crop protection chemicals
- Fertilizer
- Sulfates
- Starch
- Sweeteners
- Vitamins
- etc.

### Materials of construction

- Various grades of stainless steel
- Nickel-based alloys
- Special materials with or without lining

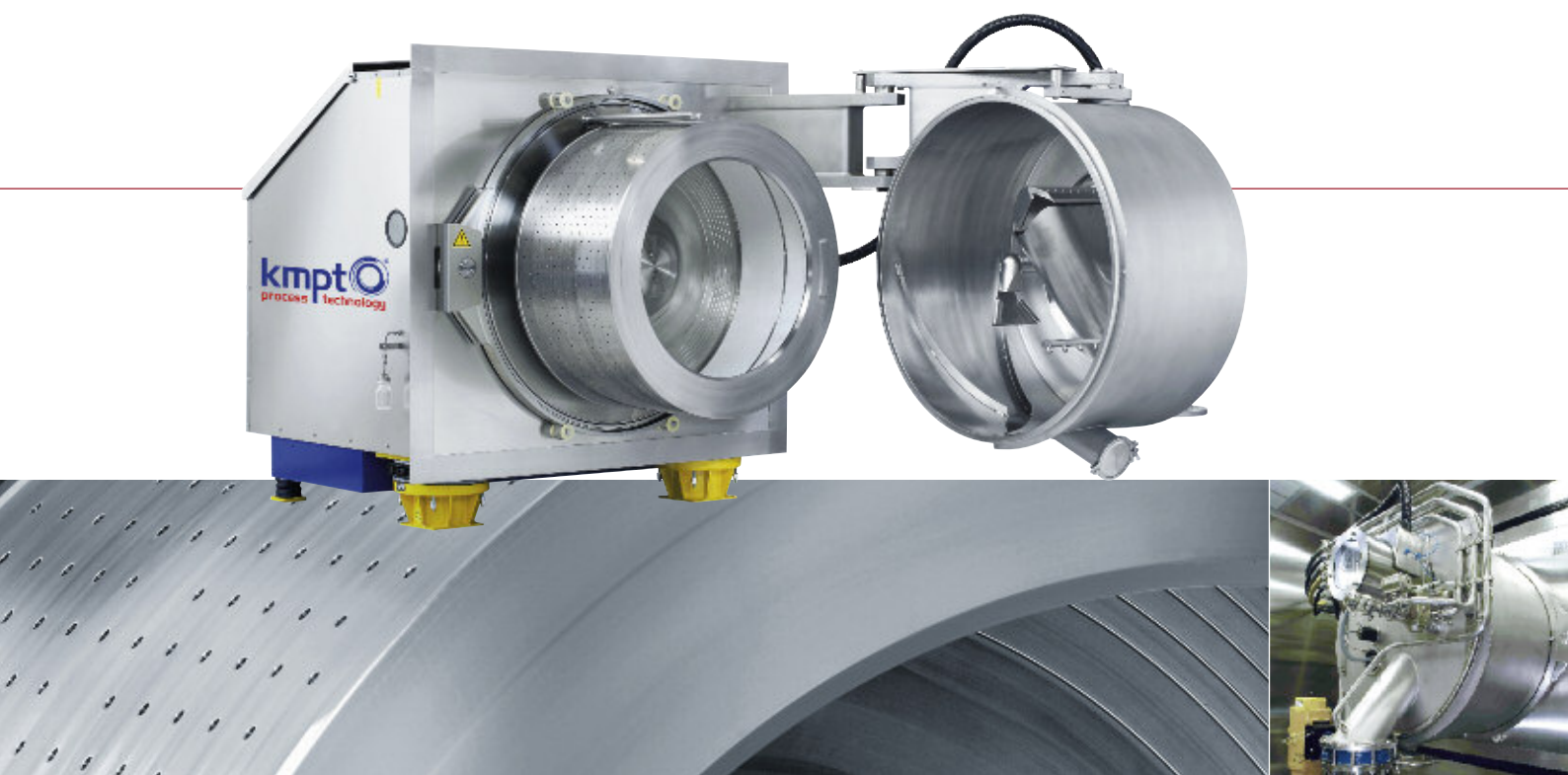


# Proven for products from A to Z

## Krauss-Maffei Pharma Centrifuge HZ Ph

Our peeler centrifuge in pharma design is proven for products from A (for amines) to Z (for zinc bacitracin). Developed for the specific requirements of demanding applications in the pharmaceutical industry, our pharma centrifuge stands out for its distinctive features:

- **Minimal product hold-up after discharge** through optimized peeler geometry.
- **Clean room installation simplified** by separation of the process area from the drive components.
- **Product contamination eliminated** with 100 % coverage of CIP fluids.
- **Easy maintenance** based on service friendly design.
- **Low space requirement** due to compact structural design.



### Operating principle

Filtration or sedimentation

### Operating mode

Batch-type

### Basket diameter

500, 630, 800, 1000, 1250 mm

### Basket volume

20 – 340 l

### Filter area

0,35 – 2,5 m<sup>2</sup>

### Solids content

From 3 % wt

### Average particle size

1 - 250 µm

### Wash efficiency

Excellent

### Solids recovery

Almost 100 %

### Special features

Designed for multi-product plants, CIP ability, 100% product discharge, ideal for cleanroom installation

### Major applications

- API's
- Antibiotics
- Liquid crystals
- Pharmaceutical intermediates
- Silver compounds

### Materials of construction

- Various grades of stainless steel
- Nickel-based alloys
- Titanium
- Special materials with or without lining

# Innovative and effective

## Krauss-Maffei Vertical Centrifuge VZU

The new vertical centrifuge has been developed for the effective and reliable processing of pharmaceutical intermediates and a wide variety of fine and specialty chemicals.

It offers a host of advantages and an attractive price/performance ratio:

- **Easy maintenance**, thanks to a service-friendly design.
- **Efficient product discharge** by means of a single, large discharge opening.

- **Minimal product hold-up** through elimination of dead zones.
- **Uniform cake formation during feeding** due to dynamic feed device.
- **Reduced space requirement** as a result of vertical design.



**Operating principle**  
Filtration or sedimentation

**Operating mode**  
Batch-type

**Basket diameter**  
1000, 1250, 1600 mm

**Basket volume**  
250 – 1000 l

**Filter area**  
2,0 – 5,0 m<sup>2</sup>

**Solids content**  
From 3 % wt

**Average particle size**  
5 - 500 µm

**Solids throughput**  
Up to 7 t/h

**Wash efficiency**  
Excellent

**Solids recovery**  
Almost 100 %

### Major applications

- Amino acids
- Antibiotics
- Crop protection chemicals
- Fine chemicals
- Pharmaceutical intermediates
- Vitamins

### Materials of construction

- Various grades of stainless steel
- Nickel-based alloys
- Rubber-lined-steel
- Special materials

# Reliable performance under extreme conditions

## Krauss-Maffei Gypsum Centrifuge VZU-G

Power stations, co-generation facilities and cement plants often use wet scrubbing processes for the desulfurization of their flue gases. These systems generate large quantities of gypsum slurry. Separating this gypsum by-product in our vertical centrifuges allows the scrubber liquid to be recycled and the recovered gypsum to be used by the construction industry as a filler material or to make wallboard.

Over 400 Krauss-Maffei Vertical Centrifuges are in operation for this application, proving their performance around the clock even under the most severe conditions.

Krauss-Maffei Vertical Centrifuges outperform belt filters in every aspect:

- **Lower power consumption** reduces the operating costs.
- **Lower residual moisture** saves substantial amounts of energy in the gypsum drying system.
- **Minimum space requirement** – a centrifuge installation requires only 1/3 of the building space of a comparable belt filter plant.
- **Higher online reliability** with less spare capacity.
- **Clean, quiet operation** with a totally enclosed system gives operators a better work environment.



**Operating principle**  
Filtration

**Operating mode**  
Batch-type

**Basket diameter**  
1000, 1250, 1600 mm

**Basket volume**  
220 - 1300 l

**Filter area**  
2,0 - 6,3 m<sup>2</sup>

**Solids content**  
10 - 70 M %

**Average particle size**  
20 - 100 µm

**Solids throughput**  
Up to 12 t/h

**Wash efficiency**  
Excellent

**Solids recovery**  
Nearly 100 %

### Major applications

Gypsum from FGD scrubber systems in power stations, waste incineration systems, cement plants, Neutralization systems in copper refining plants

### Materials of construction

- Stainless steel
- Nickel-based alloys
- Rubber-lined steel

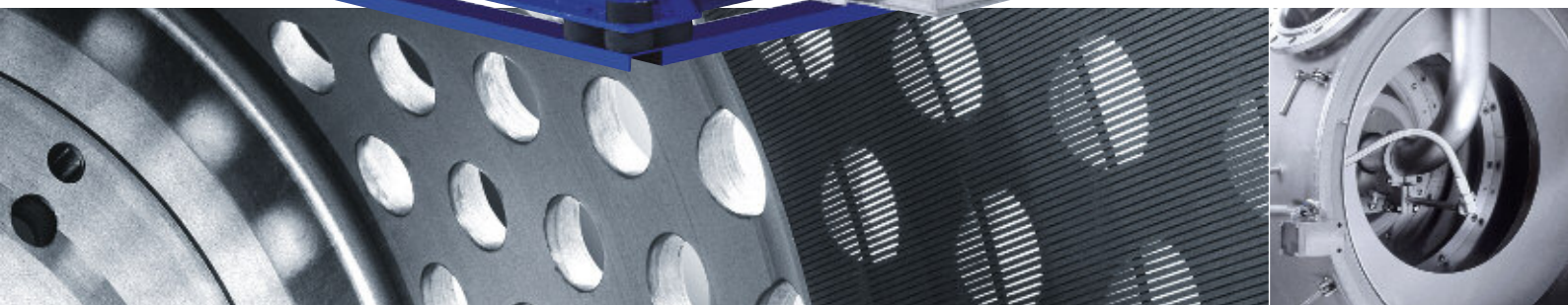
# High capacity

## Krauss-Maffei Pusher Centrifuge SZ

Our pusher centrifuge ensures maximum online availability with minimum maintenance and low space requirement in many solid/liquid separation processes.

Used in diverse industry sectors such as bulk chemicals, plastics processing, mining, the fiber industry and food processing, Krauss-Maffei Pusher Centrifuges offer a host of advantages:

- **Increased performance with high product quality** through proper selection of the basket configuration, feed accelerator and screens.
- **Mechanical and hydraulic drives available** for greater flexibility of operation.
- **Simple maintenance** through service-friendly design.
- **Quick installation** on resilient vibration dampers.



**Operating principle**  
Filtration

**Operating mode**  
Continuous

**Basket diameter**  
250, 315, 400, 500, 630,  
800, 1000, 1250 mm

**Solids content**  
> 20 % wt

**Average particle size**  
80 - 2000 µm

**Solids throughput**  
Up to 150 t/h

**Wash efficiency**  
Good

**Solids recovery**  
> 98 %

### Major applications

- ABS
- Adipic acid
- Ammonium sulfate
- Borax
- Chlorides
- Lithium compounds
- POM
- Potassium chloride
- Salt
- Soda
- Sodium chlorate
- Sulfates

### Materials of construction

- Stainless steel
- Special materials

# Big tasks need big solutions

## Krauss-Maffei Vacuum Disc Filter SSFE

High yield and product quality, combined with low production costs, provide the producer of bulk materials with a decisive competitive edge.

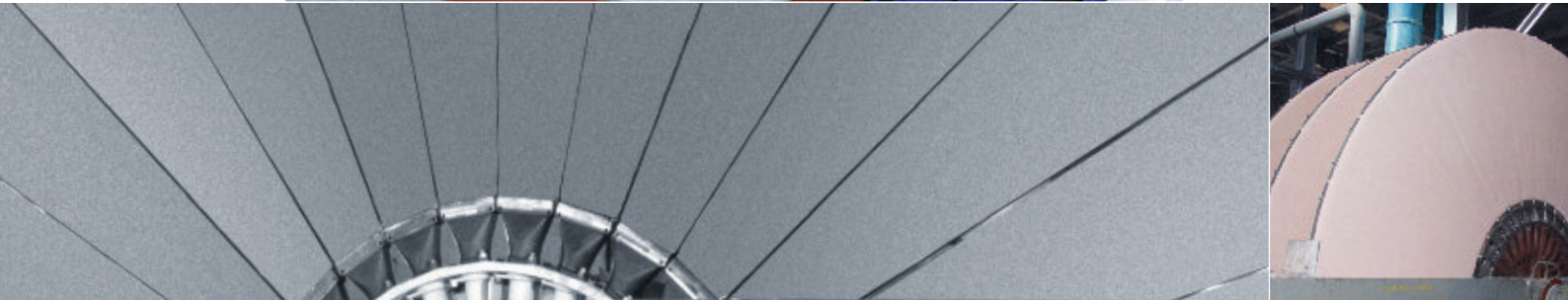
The Krauss-Maffei Disc Filter, based on many years of experience and countless applications, gives you an efficient filter operation to achieve these attributes.

These filters boast a tried and tested technology – and one that you can rely on day after day.

Features of the Krauss-Maffei Disc Filter are:

- **Large disc diameter** increases the filter area.
- **Increased number of filter cells** reduces cell volume and substantially improves hydraulic efficiency.
- **Easy filter bag installation** with quick connection clamps.
- **Virtually 100% product discharge** utilising pneumatic assistance.
- **Lightweight filter cells** simplify replacement.

You benefit from a higher filtration capacity with better product quality and easy maintenance.



**Operating principle**  
Vacuum filtration

**Operating mode**  
Continuous

**Particle size**  
30 - 200 µm

**Filter area**  
42 - 400 m<sup>2</sup>

**Filtration capacity**  
200 - 5000 l/m<sup>2</sup>h

**Solids throughput**  
Up to 4000 kg/m<sup>2</sup>h

### Major applications

- Alumina
- Mining (coal, iron, ore)
- Potassium

### Materials of construction

- Carbon steel
- Stainless steel
- Plastic filter cells (option)
- Special materials

## Wide range of applications

### Krauss-Maffei Vacuum Drum Filter TSF

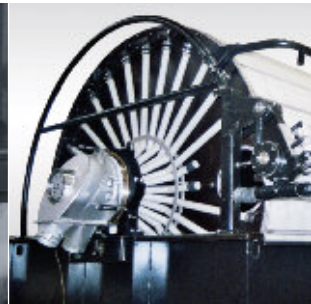
Drum filters are the most frequently used continuous rotary filters and are found in many different applications due to their simplicity and ease of operation.

Applications include solid/liquid separation processes in the chemical industry, plastics production, mineral refining, food processing industry and in the field of environmental protection.

To suit your specific requirements we provide our vacuum drum filter in gas-tight, press belt and wash belt design.

Our rotary drum filter offers a number of advantages:

- **Increased filtration capacity** due to improved hydraulic efficiency.
- **Low operating costs** by maintenance friendly design.
- **Enhanced performance** with gas-tight configuration.



**Operating principle**  
Vacuum filtration

**Operating mode**  
Continuous

**Special versions**  
Press belt, gas-tight, wash belt

**Particle size**  
1 - 300  $\mu\text{m}$

**Filter area**  
0,72 - 100  $\text{m}^2$

**Filtration capacity**  
100 - 2000  $\text{l/m}^2\text{h}$

**Solids throughput**  
Up to 1500  $\text{kg/m}^2\text{h}$

#### Major applications

- BPA
- Carbonates
- Cellulose
- Indigo
- Iron oxide
- Pigments
- Plastic intermediates
- Red mud
- $\text{TiO}_2$

#### Materials of construction

- Carbon steel
- Stainless steel
- Rubber-lined steel
- Special materials

# When vacuum is not sufficient

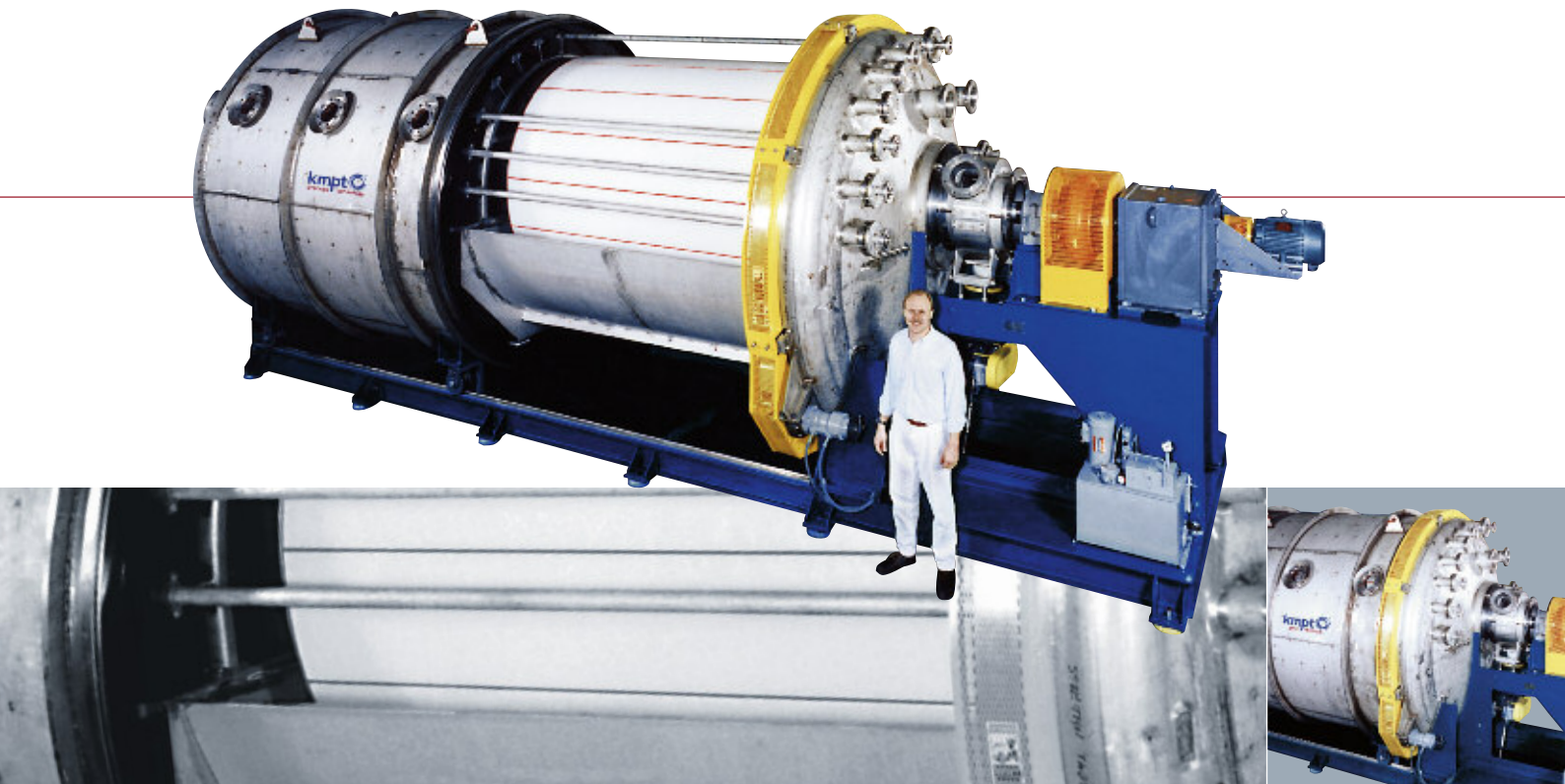
## Krauss-Maffei Pressure Drum Filter TDF

Wherever a continuous filtration under elevated pressure differential and high operating temperature with intensive cake wash is required, the Krauss-Maffei Pressure Drum Filter with its high specific filtration rate is the right choice.

Easy accessibility to the process area, mainly static sealings and a fully automated operation guarantee low production costs and highest efficiency.

Features of the Krauss-Maffei Pressure Drum Filter:

- closed, pressurized production
- full opening housing with hydraulic clamp ring
- all connections and drives outside the pressure vessel
- low space requirement
- homogeneous cake distribution
- intensive cake wash
- low residual moisture at high capacities



**Operating principle**  
Pressure filtration

**Operating mode**  
Continuous

**Cake Discharge**  
Scraper  
Roller

**Particle size**  
1 - 300 µm

**Filter area**  
4 - 50 m<sup>2</sup>

**Pressure difference**  
Up to 6 bar

**Operation temperature**  
Up to 135°C

### Major applications

- Coal preparation
- Dye-stuffs
- Iron ore beneficiation
- Pigments  
(e.g. Iron oxides, Titan dioxide, etc.)
- Plastic intermediates  
(e.g. BPA, PTA, PET, Melamine, etc.)

### Materials of construction

- Carbon steel
- Stainless steel
- Rubber-lined steel
- Special materials

# For mixing and drying applications

## Krauss-Maffei Helix Dryer HD

The Krauss-Maffei HD series uses a central, top-driven helical mixer in a conical vessel for efficient mixing of friable materials. For processing sticky products a special segmented mixer design is available. With heated vessel and mixer, the HD becomes a high performance contact dryer for thermal processing at low temperatures under vacuum.

Small clearance between the mixing device and the vessel wall in combination with a central bottom outlet guarantee easy discharge and minimum product hold up.

A variety of standard ancillaries such as integrated or top mounted dust filter, isolation valves for feed, discharge and sampling, CIP devices, inertizing and purge gas systems are available to meet requirements of the most demanding process applications.



**Operating principle**  
Vacuum contact drying, mixing, homogenizing

**Operating mode**  
Batch-type

**Consistency of wet product**  
Free-flowing, centrifuge or filter cake

**Product conveying**  
Mechanical with helical mixer

**Particle size**  
Up to 5 mm

**Heat transfer medium**  
Water / steam / thermal oil

**Drying temperature**  
Max. 150°C

**Retention time**  
30 min - 20 h

### Major applications

- Amino acids
- Antibiotics
- API's
- Fine chemicals
- Foodstuff
- Pharmaceutical intermediates
- Plastics

### Materials of construction

- Stainless steel
- Nickel-based alloys
- Special materials



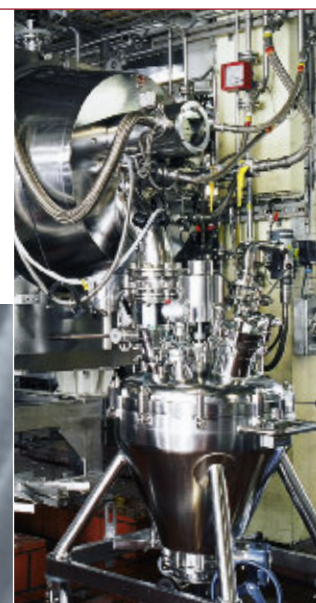
# Mobile mixing and drying

## Krauss-Maffei Helix Dryer HD mobile

The Krauss-Maffei Helix Dryer HD mobile is a special variant of the helical mixer dryer HD. It is designed for the processing of small batches that requires a precisely controlled operating environment and total product containment.

Key features of the dryer are its compact dimension for mobility and the optional setup with a central drying station hosting drive unit, vacuum connection and heating/ cooling supply in combination with a stationary lifting device and multiple, mobile product vessels with vapor filters.

By connecting the product vessels with appropriate isolation valves to a mechanical separation equipment such as Krauss-Maffei Pharma Centrifuge, the product remains fully contained throughout the complete processing sequence. Different dryer vessel sizes can be connected to the central drying station for added operating flexibility. No product transfer is required from the filtration step to the drying/ mixing operation and to the final discharge point which can be provided with various high-containment devices. The entire process train can be placed on one individual floor or inside a single clean room.



**Operating principle**  
Vacuum contact drying, mixing, homogenizing

**Operating mode**  
Batch-type

**Consistency of wet product**  
Free-flowing, centrifuge or filter cake

**Product conveying**  
Mechanical with helical mixer

**Particle size**  
Up to 5 mm

**Heat transfer medium**  
Water / steam / thermal oil

**Drying temperature**  
Max. 150°C

**Retention time**  
30 min - 20 h

### Major applications

- Amino acids
- Antibiotics
- API's
- Fine chemicals
- Pharmaceutical intermediates

### Materials of construction

- Stainless steel
- Nickel-based alloys
- Special materials

## Versatile and flexible

### Krauss-Maffei Mixer Dryer MT

Wherever free-flowing bulk materials need fast and gentle mixing or drying, you can rely on our mixer dryers to be the right choice. For gentle action and efficient mixing of your product the MT series mixer dryer uses an orbiting screw-type mixer which rotates inside a conical vessel. The bottom entry allows for heating the mixing screw and moves all drive components to the outside of the process area and away from the top of the vessel.

The benefits of this drive design of the Krauss-Maffei Mixer Dryer MT are clear:

- Faster and more efficient drying.
- No risk of product contamination from failing drive parts and lubrication leaks.
- Reduced space requirement due to compact design.
- Greatly expanded room for nozzles, parts and ancillary equipment on the vessel head.
- Easy maintenance of external drive components.



**Operating principle**  
Vacuum contact drying, mixing, homogenizing

**Operating mode**  
Batch-type

**Consistency of wet product**  
Free-flowing, centrifuge or filter cake

**Product conveying**  
Mechanical with mixer screw

**Particle size**  
Up to 5 mm

**Heat transfer medium**  
Water / steam / thermal oil

**Drying temperature**  
Max. 150 °C

**Vessel size**  
Up to 8 m<sup>3</sup> useable volume

#### Major applications

- Amino acids
- Antibiotics
- API's
- Fine chemicals
- Pharmaceutical intermediates

#### Materials of construction

- Stainless steel
- Nickel-based alloys
- Special materials

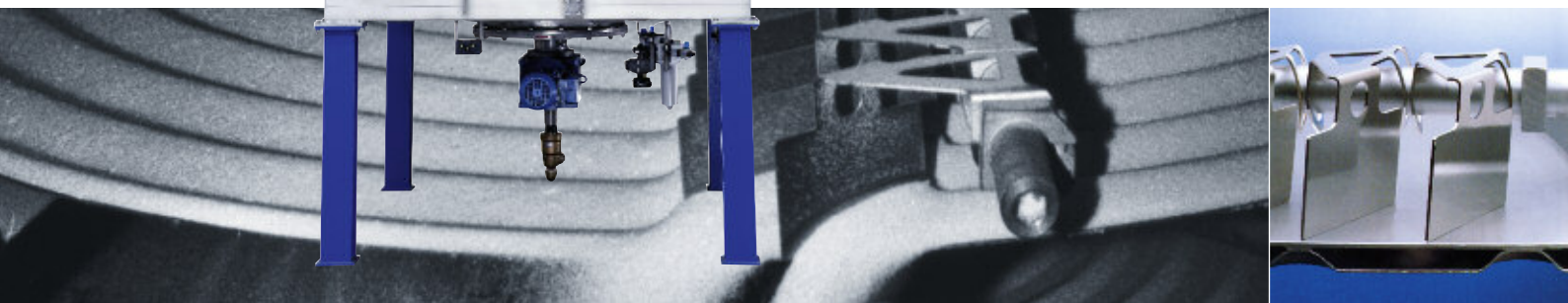
# Continuous drying

## Krauss-Maffei Plate Dryer TT

Where continuous drying of free-flowing bulk materials is required, the Krauss-Maffei Plate Dryer is the right choice. It has been proven in over 400 applications and is available in atmospheric, gas-tight or vacuum configurations. The plate dryer can dry sensitive, toxic or solvent containing products gently without any impact to the environment.

The key performance characteristics of the Plate Dryer TT are:

- **High quality of the dried product** with exact control of drying temperature and retention time.
- **Gentle product handling** without back-mixing.
- **Maximum flexibility** by optimizing the product layer depth and speed/configuration of the plow arrangement.
- **Minimum energy requirement** by efficient contact drying.
- **Minimum dust load**, low carrier gas flow and integrated vapor filters.
- **Easy solvent recovery.**
- **Easy inspection** by large access doors.



**Operating principle**  
Contact drying, contact cooling

**Operating mode**  
Continuous with carrier gas or under vacuum

**Product transport**  
Mechanical by plows

**Size**  
Heat exchange area up to 200 m<sup>2</sup>

**Heat transfer medium**  
Water / steam / thermal oil

**Consistency of wet product**  
Free-flowing

**Drying temperature**  
Up to 300 °C

**Particle size**  
Up to 5 mm

**Retention time**  
5 – 300 min

### Major applications

- Antibiotics
- Antioxidants
- Fine and specialty chemicals
- Herbicides
- Plastics/Polymers
- Tea
- Vitamins

### Materials of construction

- Stainless steel
- Special materials

# Automated control with perfect interfacing

## KMPT Process Automation

Perfection in process engineering requires perfection in process automation. The superior performance of our process equipment is based on perfecting the interface between equipment hardware, electrical components, electronics, informatics and process know-how to create an all-encompassing custom tailored solution for each application. Using intelligent sensors and state-of-the-art communication systems we control and monitor our machines on a result-oriented basis.

The benefits of our Process Automation are:

- Enhanced equipment performance.
- Consistent high product quality.
- Reduced consumption of utilities.
- Optional condition diagnostics.

## Automation of machines

Individual adaptation - we can incorporate the automation concepts for our machine in your existing control system.

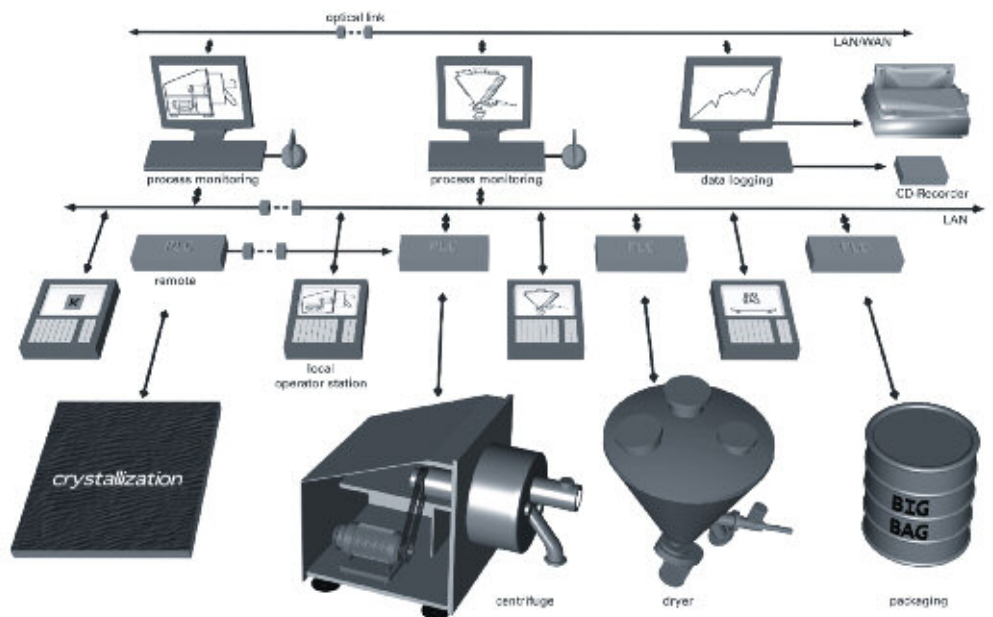
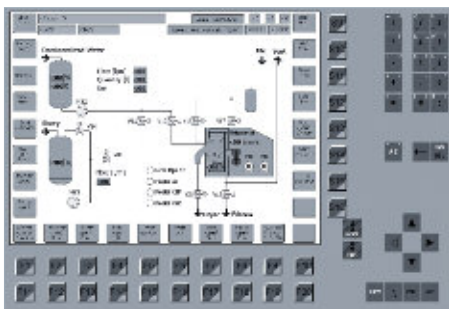
## Custom concepts

We provide an individually designed service package to fit your specification – from the control of individual units, to the incorporation into existing control systems or the automation of complete plants ready for operation.

## Services

Based on your quality assurance program, we prepare all the required documents for validation and qualification of the software and hardware automation. Our extensive know-how, profound experience and innovative drive qualifies us as your partner for the validation of our equipment for your production needs.

Machinery Directives, ATEX, hazardous location regulations - there are many regulations to be met at the plant site. We are there to serve as your knowledgeable advisor for the safety of your plant.



# Everything from one source

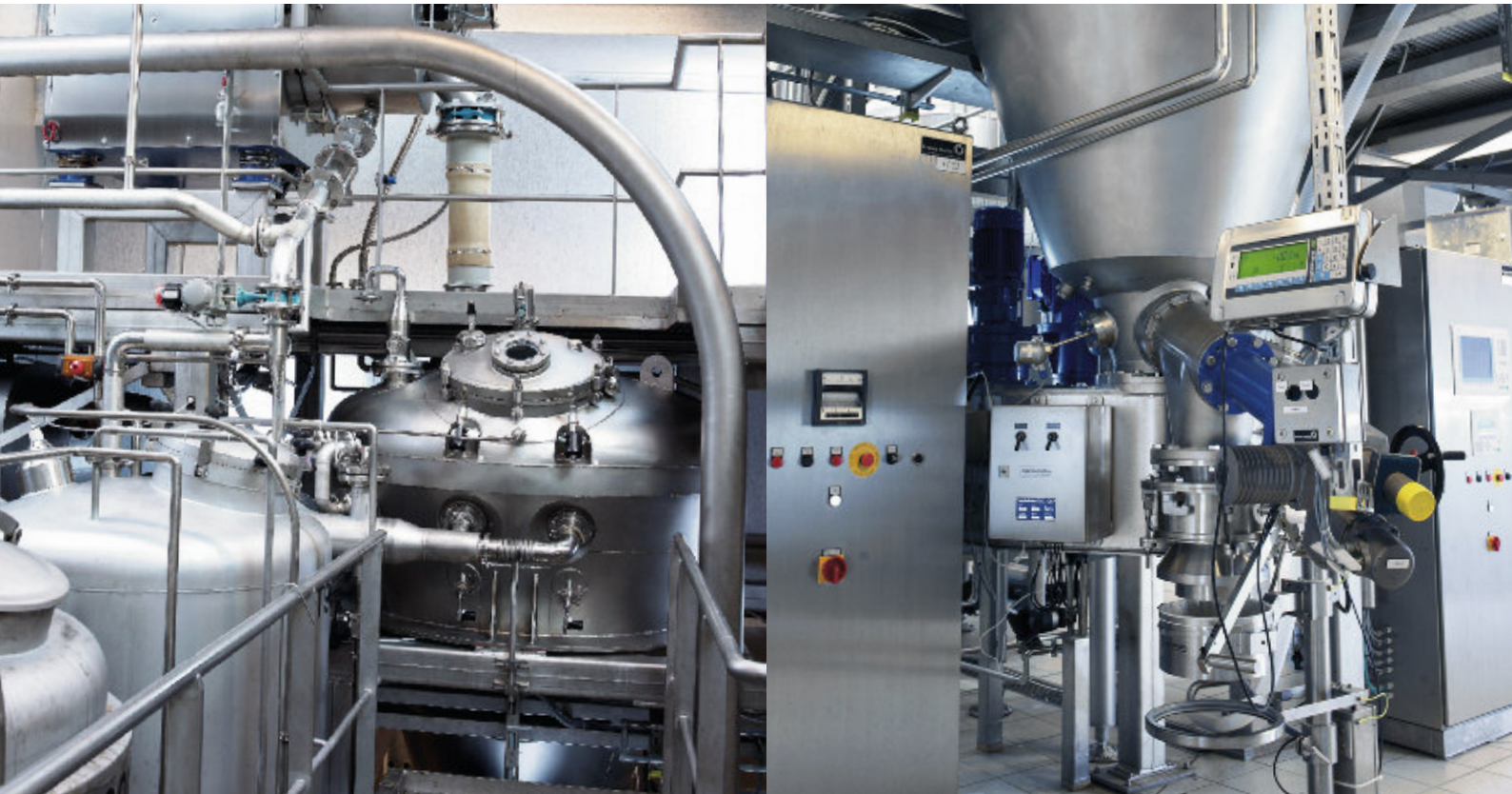
## Krauss-Maffei Engineered Systems

Our system integration uses a modular approach. We have the experience and expertise to deliver individual process system solutions for your specific applications. To do so, we complement core technologies from our equipment line with peripheral components to an integrated total system without any interfaces for the user. Upon request, we combine single components into functional, pre-assembled process modules.

We constantly have the overall process of the mechanical and thermal solid/liquid separation in mind.

Our services include:

- Pilot testing to provide a solid basis for equipment choice and performance guarantee.
- One contact partner for the entire system from process equipment to peripherals and automation.
- Detailed engineering performed by our knowledgeable staff.
- Reduced installation time with pre-assembled process modules.



## Always at your service...

Our goal is to provide our customers with fast and reliable service, from the first process consultation throughout the entire service life of your KMPT process equipment.

To assist our global customer base, we operate service facilities around the world staffed with experienced, dedicated service teams.

### ■ Spare Parts

We keep over 6,000 different spare parts and components in stock for you. Our service centers in Germany, USA, Great Britain, Italy, France, China, and elsewhere maintain their own spare parts stock to enable faster delivery to your plant site.

### ■ Repairs & Maintenance

Our service centers are ready to provide you with regularly scheduled maintenance or emergency service at your site. Our experts provide assistance including assembly work, installation support, commissioning, upgrades, repair work and optimization of your process conditions.

### ■ Advisory Service

Our customer service team is ready to answer any question concerning machine safety, equipment upgrades and process optimization.

### ■ Reconditioned Units

We maintain a select stock of reconditioned units available for fast delivery from our facility. All machines are fully disassembled, inspected and reconditioned by replacing worn or damaged parts. A final test run validates the mechanical guarantee we provide with our refurbished equipment. With our factory reconditioned units you gain production capacity quickly with minimal capital investment.

## Worldwide Company Locations



... wherever you are

■ **Installation and Commissioning**

Our experienced service personnel assists you in the installation and start-up of your equipment.

■ **Remote Diagnostics**

Using modern communications and diagnostic systems our customer service is able to offer even faster and more efficient support. Via remote access our specialists can receive information on the operating condition of your machine and carry out fault diagnoses. Maximum data security is of course guaranteed at all times. We only access the data from your machine when you give your specific approval to do so.

■ **24-hour On-Call Service**

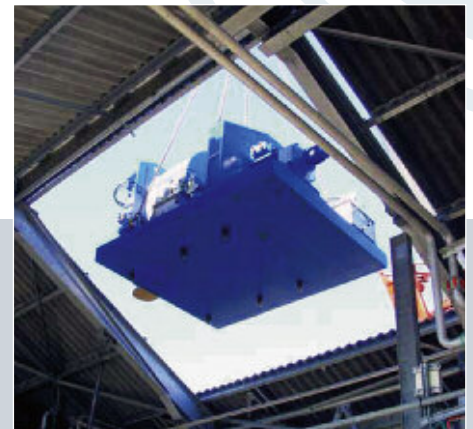
You can reach our skilled and experienced service team around the clock.

■ **Maintenance Contracts**

We offer you tailor-made long term contracts for preventative maintenance of your equipment.

■ **Customer Training**

We train your operating personnel during the commissioning of the plant. In addition, we also offer you seminars for maintenance and operation of our entire line of process equipment. This training can be conducted at our site or yours.



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