

■ PRODUCT SUPPORT AND CUSTOMER SERVICE

” WE ARE ONLY SATISFIED
WHEN YOU ARE SATISFIED WITH US. “

Take us at our word! It is our declared aim to help you save time and money and to provide you with more quality, efficiency and profitability with regard to your production processes.

To embrace this high standard we run our customer service department as a special business field. A competent and reliable team consisting of qualified personnel is ready to perform every service around our product line.

OUR SCOPE OF SERVICES

- Spare and wear parts
- Service, maintenance and start-up
- Service contracts
- Repairs
- Customer consulting service

YOUR RELIABLE PARTNER

The basis of our successful activities is our long experience in the field of wastewater engineering and the use of optimised technologies. The high quality standard of our products, the reliability in planning and installation, as well as a comprehensive after-sale service will convince you of having chosen the right partner.



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■ OUR FURTHER DELIVERY PROGRAMME

■ ENVIRONMENTAL ENGINEERING

- Organic Polymers
- Inorganic Iron and Aluminium Salts
- Biochemical Products
- Dissolving, Dosing and Control Units
- Deodorisers
- Defoamers and Deaerators
- Decolourisation
- Special Products
- Consulting and System Analyses

■ PAPER TECHNOLOGY

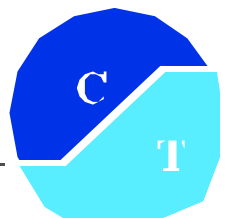
- Polymers / Bentonites
- Cationic / Anionic Polymers
- Fixatives / Bentonites
- Modified Bentonites
- Defoamers and Deaerators
- Synthetic Thickeners
- Carboxymethylcellulose
- Polyvinylalcohol
- Starch and Starch Derivatives
- Deodorisers
- Special Products
- Machinery & Equipment
- Consulting Service and System Analyses

■ INDUSTRIAL CHEMICALS

- Defoamers (liquid)
- Defoamers (powder)
- Wetting and Dispersion Agents (liquid and powder)
- Various Special Chemicals
- Special Defoamers
- Various Fillers
- Preservatives
- Special Pigments and Dyestuffs
- Waxes

L I E
C H E M I C A L S
E N G I N E E R I N G
T E C H N I K

T e c h n o l o g y i s o u r S u c c e s s



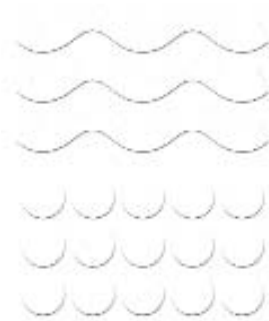
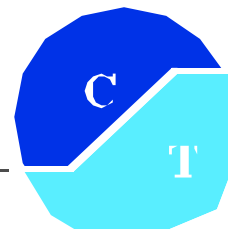
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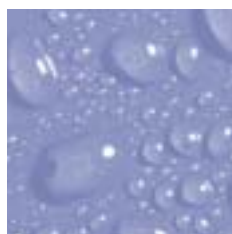
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MACHINERY & PLANT ENGINEERING

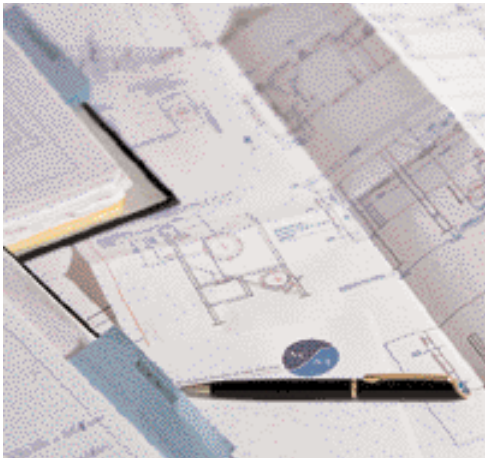


Our strong points:

- Complete solutions and unit components for mechanical sludge dewatering
- Unit components for mechanical waste water treatment
- Solar sewage sludge drying
- Odourjet compact systems
- Product support and customer service

■ COMPLETE SOLUTIONS AND SYSTEM COMPONENTS FOR MECHANICAL SLUDGE DEWATERING

20 years of experience in design, detailed planning and the construction of sludge conditioning and dewatering units distinguishes our team. You and your projects are being attended to from testing, detailed planning up to implementation and commissioning.



POLYMER TREATMENT AND DOSING SYSTEMS

“ For preparing an optimum polymer solution we proceed according to the batch principle: discontinuous mixing and continuous dosing. ”

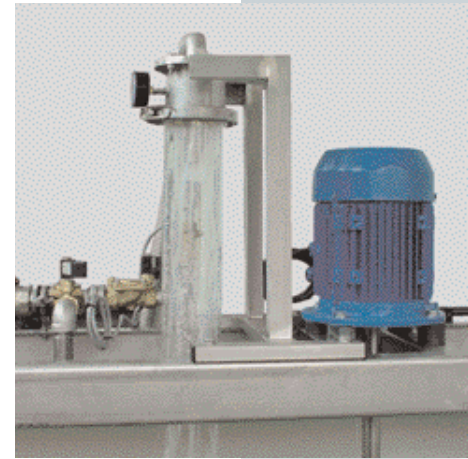
A pre-selected quantity of flocculants is inverted with water in a dissolution container between two defined fill levels. Polymer engineers developed a special high-end disperser to get a gel particle free polymer solution. These so-called “JET-WET Dispersers” guarantee the wetting of the polymer powder particle by particle.

The advantages of the method:

- Precise and constant solution concentrations
- Optimal efficiency and constant maturing time
- Extremely gentle treatment of the solution

Our delivery programme comprises:

- Dissolving and dosing units for powdery and liquid products
- Bigbag stations
- Dilution units
- Sludge/Polymer mixer
- Dosing control for dewatering instruments (Polykon and Alcotech)



LIME MILK PROCESSING UNITS AND LIMING OF MECHANICALLY DEWATERED SLUDGE

The correct choice of the equipment standard for lime products drying at different rates, as well as ready-made lime milk solutions are prerequisites for reliable systems engineering.

We supply you with a turnkey system including silo, bridge-breaking unit, gate valve, dosing units, screw conveyors, mixing container and steering for nearly all industrial applications.

Our delivery programme comprises:

- Lime silos
- Mechanical and pneumatic discharge systems
- Dosing systems
- Conveyors
- Mixing containers for the production of lime milk from calcium hydroxide
- Slaking systems for the production of lime milk from quicklime
- Plants for liming mechanically dewatered sewage sludge



SPIRAL CONVEYING TECHNOLOGY

Spiral conveying technology is used for the most difficult conveying tasks in the wastewater, potato, vegetable and fruit processing industry, in the fish and meat processing industry (slaughterhouses), in the paper industry, the chemical industry, in incineration plants, and composting and recycling plants.

Spiral conveyors are available in different diameters (200 - 600 mm), in lengths of up to 70 m and for transport capacities of up to 200 m³/h.

Advantages of spiral conveying:

- Compact installation dimensions
- Easy access and therefore easy to clean
- High efficiency
- Complete emptying possible
- Simple construction
- Odour-free conveying due to a closed system
- Little servicing
- Vertical conveying

Application fields:

- Slurries
- Fertilisers
- Chemical waste
- Shredders

Container versions:

- Transport system "Multilift" or hook system

Advantages:

- Full container loading saves transport costs
- Odour-free system
- Automatic loading
- Service-free
- No wetting by rain
- Leasing possible



SLUDGE SILO AND BUNKER DISCHARGE UNITS

Discharge bottoms are the result of long experience and the only solution for discharging extremely viscous substances from silos, hoppers, or bunkers.

Usage:

- Non-homogeneous products (wood chips, paper shreds, etc.)
- Products tending to form bridges
- Creamy or pasty products (sewage sludge, refinery residues, etc.)
- Pharmaceutical products

The discharge bottom comprises 2 to 6 spiral conveyors working at different rates.

Advantages:

- Constant discharge
- Large discharge surface
- No danger of bridge formation
- Storage capacity up to 1,000 m³ per extension system
- Robust construction
- High reliability
- High self-cleansing rate

SPIRAL CONTAINER

The spiral container (10 - 45 m³ capacity) is a current answer to environmental standards as to the closed discharge of production residues. With the spiral container the container capacity can be fully used without having to be open.

” The spiral container is the environmentally solution for industrial waste collection. “



■ UNIT COMPONENTS FOR MECHANICAL WASTEWATER TREATMENT

FILTER STEP SCREENS

The step screen is designed in such a way that the solids can efficiently be separated. It consists of a fixed and a flexible set of lamellas and has thus a high separation output.

COMPACTING UNIT

The compacting unit for mechanical preliminary treatment of communal and industrial effluents integrates all the procedure steps in one stainless steel container.

It contains – depending on the equipment – the following components:

Basic equipment:

- Mechanical treatment (filter step screen or round strainer)
- Compacting and dewatering of screenings by wash-pressing of screenings
- Grit trap designed according to ATV standards
- Spiral conveyor in grit trap
- Grit classification

Optional:

- Grit trap ventilation
- Fat trap unit with automatic scraping
- Overflow box with emergency circuit in the integrated gate valve
- Cover of compacting plant



SLUDGE/GRIT SCRAPING

Longitudinal and circular scrapers in massive wall construction

■ SOLAR SEWAGE SLUDGE DRYING

Increasing amounts of sewage sludge, the unpredictable development of collection and disposal and budgetary shortages are a constant challenge to communes and industries.

In addition, the permanently changing legal basis in the field of disposal renders long-term planning rather difficult. Our concept of solar sewage sludge drying offers the ideal means to master this problem and to produce energy at the same time.



■ ODOURJET COMPACTSYSTEMS

MACHINERY FOR ODOUR CONTROL

In addition to our odour control agents we also provide the machinery for the application of our products.

For efficient odour control the dosing agents have to be finely dispersed.

Dispersing and mixing of the air in the immediate proximity of the site where the odour is produced achieve the best results.

