

DOSING SYSTEMS

GRAVIMETRIC / VOLUMETRIC



EXPERIENCE - INNOVATION - TECHNOLOGY
STORING CONVEYING WEIGHING MIXING DOSING

IFA TECHNOLOGY GMBH

Member of  Deurotech Group

EVERYTHING FROM A SINGLE SOURCE

- ▷ MADE IN GERMANY
- ▷ GLOBAL NETWORK
- ▷ COMPLIANCE WITH TECHNICAL STANDARDS
- ▷ ON-SITE TRAINING
- ▷ SERVICE AND SUPPORT
- ▷ TURNKEY INSTALLATIONS
- ▷ SMART IFA



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GRAVIMETRIC DOSING SYSTEMS – THE PERFECT SOLUTION FOR ANY APPLICATION

Our modular dosing systems have been used in a wide range of industrial applications for over 40 years. We offer you the benefit of this know-how, on the basis of which we continuously develop the dosing system.

We can select from different basic system types depending on the required production capacity, your number of products and product characteristics, the available installation situation and other criteria.

The features which set our systems apart include precise dosing of even the smallest quantities and high reproducibility. Parallel dosing functions allow you to save valuable time during the process and increase efficiency.

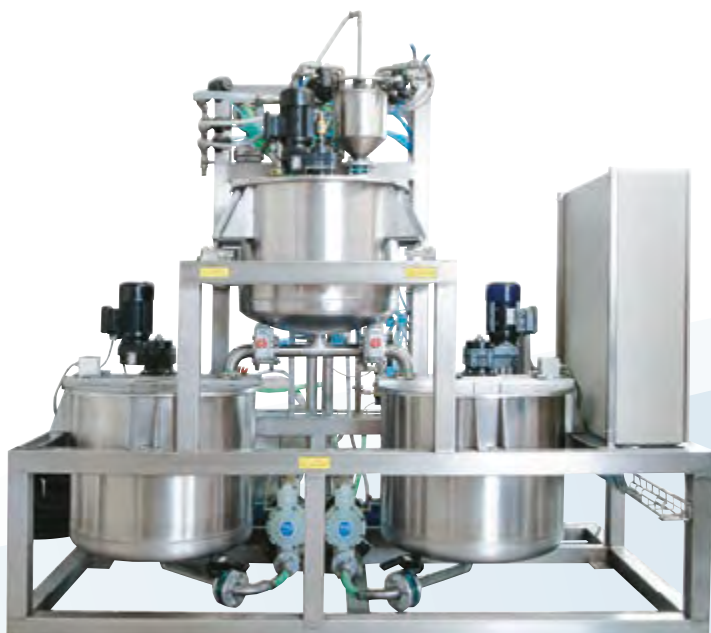
The benefits for you

- Efficient dosing with high reproducibility
- Batch traceability
- Integrated recipe management
- Plug & play system, designed for sea container size
- Systems fully pre-assembled ready for operation
- Low-maintenance production through the use of wear-free components
- Handling of almost any liquid thanks to corresponding special materials

■ MODUL SOLUTION



■ COMPACT SOLUTION



FEATURES OF GRAVIMETRIC DOSING SYSTEMS:

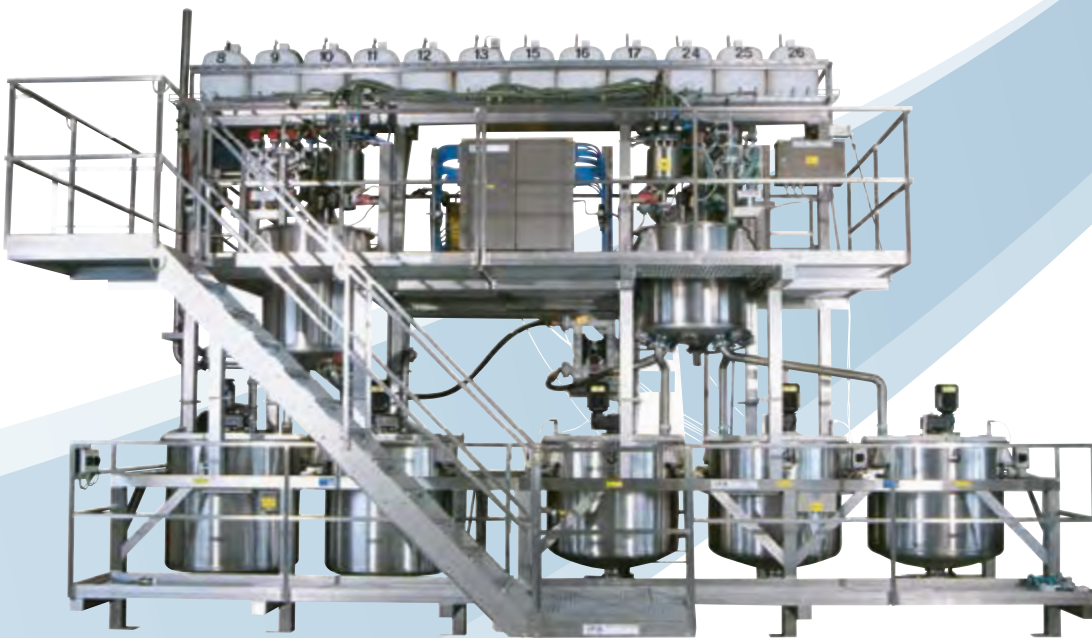
- ▷ Automatic compensation for any deviations in bulk density
- ▷ Weight-related recording of the discharged quantities
- ▷ Data acquisition and provision of all process parameters
- ▷ Integrated consumption data acquisition for the optimisation of your processes and systems

DOSING SYSTEMS – CUSTOM-MADE – COST-EFFECTIVELY PRODUCED

The "Gravimet" range of systems offers a choice of 3 basic modules which are customised to your specific process requirements, resulting in a unique product tailor-made for you.

The system is scalable across a wide capacity range thanks to its modular construction. The robust design and reliable functional components ensure flawless operation even in the case of very demanding requirements.

■ GRAVIMET

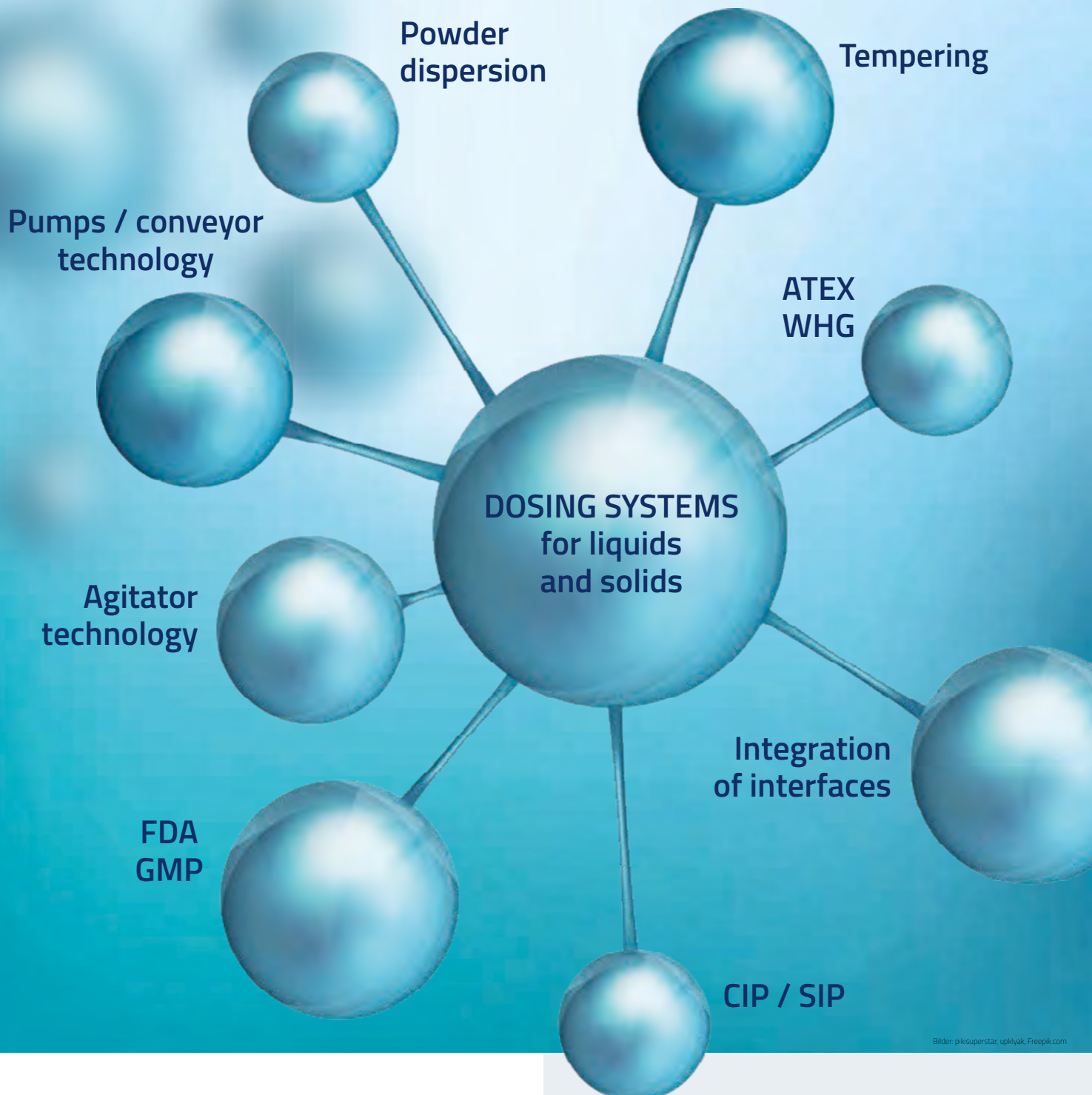


Technical data for the standard range

- Performance range in batch mode: 0.5 – 5.0 t/h
- High dosing precision: < +/- 0.5 %
- Measurement principle: mass-based with no effect on density fluctuations
- Fully automated process with additional manual functions
- Parallel dosing for optimised production processes
- Optimised design for use in areas subject to explosion hazards

DOSING AND MIXING SYSTEMS – INDIVIDUALLY CONFIGURABLE – ECONOMICALLY MANUFACTURED

Depending on the requirements, individual modules can be added to the system series be tailored to customer needs. Safety and reliable quality are paramount for your system while realizing the project.



Bilder: pikisuperstar, upkyak, Freepik.com

ADVANTAGES OF YOUR IFA PROCESS PLANT:

- ▷ Planning, engineering, acceptance and certification process from a single source
- ▷ Service and maintenance by our aftersales department
- ▷ Cross-industry know-how

TECHNICAL MODULES TO OPTIMIZE YOUR PROCESS

■ Agitator technology, mixing systems

Inline homogenizers
Jetstream Mixers
Supersonic shredder

■ Pump- and conveyor technology

Fast and precise conveyor technology through the right selection of the applied unit
Pump systems - product protection, highly accurate dosing and repeatability
Powder conveying systems - mechanical, pneumatic

■ Powder dispersing and dissolving plants

Inline dispersing systems for easy to difficult powder applications
Dust-free mixing of powders to liquids

■ Temperature control systems

Cooling / heating via double-walled tanks and equipment
Tempering media: water, thermal oil, steam
Automated temperature control

■ GMP / FDA compliant design

Use of high-quality stainless steel
Grinded / electropolished surfaces
GMP / FDA compliant connections and fittings
Orbital welding technology

■ CIP / SIP cleaning

Automated cleaning processes, variably adjustable
Sanitization

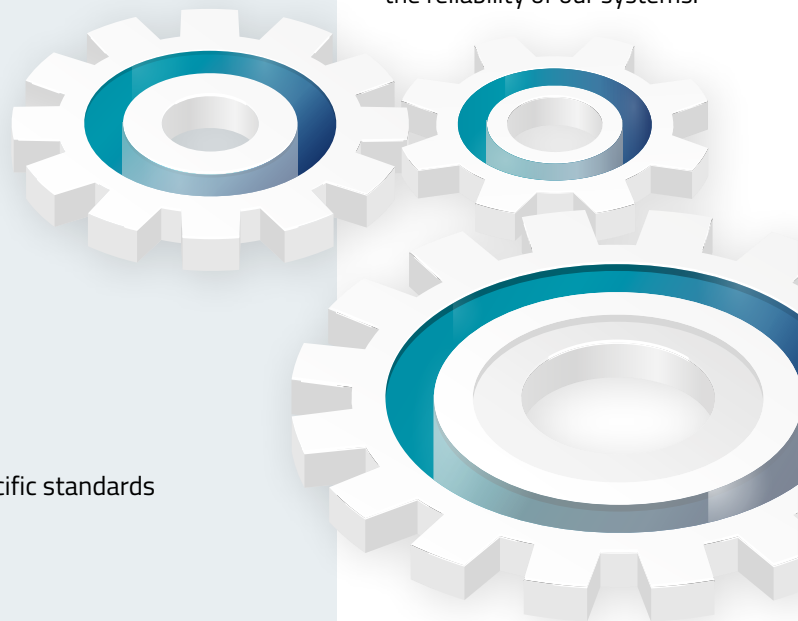
■ ATEX / WHG conformity

Design according to current regulations and country-specific standards
WHG – German regulations for Water Protection
ATEX - IECEx - UL/FM

■ Interfaces

ERP interface for order and material management
Batch tracing
After-sales menu and remote maintenance

Interlocking modules for a wide range of application guarantee the reliability of our systems.



VOLUMETRIC DOSING SYSTEMS

PRECISE AND RELIABLE

Volumetric dosing is carried out on a quantity basis by measuring the flow rate of liquids or bulk materials. Application-dependent measuring systems are used in our volumetric dosing systems. These make it possible to provide the specified quantity of material at a defined point in time in a defined ratio.

The continuous inline dosing via flow measurement technology or dosing pumps with linear characteristic curve enables recipe-accurate dosing of liquids and bulk materials in a small space.



INLINE MIXING

STATIC/DYNAMIC

As well as volumetric dosing of individual raw materials, an inline mixing unit can also be integrated into the process as needed. Alongside static mixing elements which are installed in the pipe, dynamic mixers can also be incorporated. This enables, for example, higher shear forces to be exerted on the product.

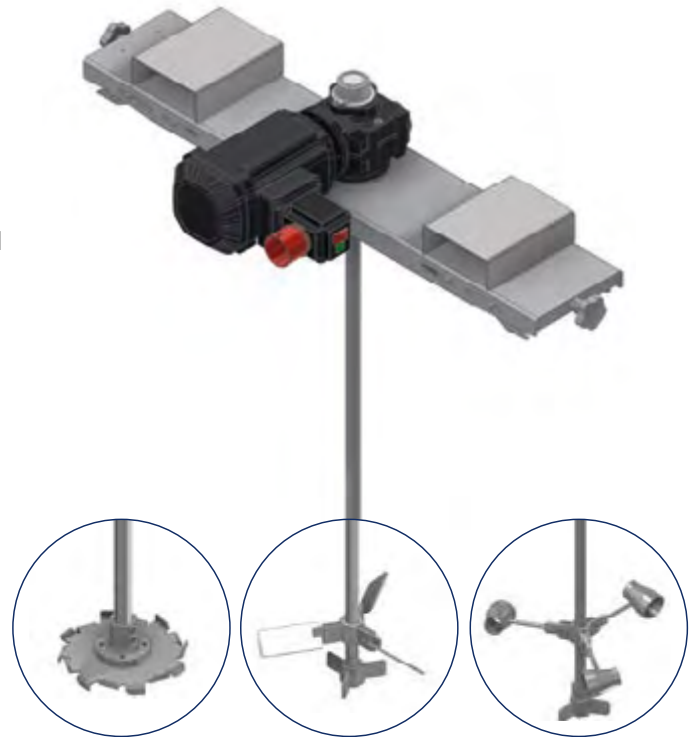
IBC CONTAINER SYSTEMS

COMBINE STORAGE WITH DOSING TECHNOLOGY

Storage systems for IBC transport containers, drums, canisters or other storage containers, for continuous emptying and dosing to downstream processes.

Basic equipment for handling of IBC transport containers

- Collecting trays made from stainless steel, steel, PE/PP also with WHG (German Federal Water Act) approval
- Stainless steel feed hopper, standard volume 1,200 litres
- Feed pump: air-operated diaphragm pump as standard
- Technically leakproof hose connections with quick couplings
- Process automation with corresponding instrumentation and fittings
- Control; autonomous or connected to higher-level control system



IBC-Container Rührwerke mit Traverse und Klapp-Propeller als Standard, weitere Rührwerke gemäß Anforderung

The benefits for you

- Modular units, easily expandable
- Flexible configuration to suit your production conditions
- Safe handling of hazardous substances
- Continuous supply to your production line without interruption for batch change

Options

- Can be combined with hazardous substance storage cabinet, also with temperature control and ventilation systems
- Stainless steel feed hopper, standard volume 1,200 litres
- Medium-specific feed pumps
- Portable IBC container agitators
- Contamination-free handling with "Quick Connect System" or dry couplings
- Stand-alone raw material management system



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