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Structural engineering  
Agitator technology  
Systems engineering







**Who we are:**

## Inotec machine professionals

**For Inotec, it's all about the machine: since 1994, we've seen it as our core task to make your work in the industrial and construction sectors more convenient, faster and easier by developing sophisticated, state-of-the-art machines.**

Whether for agitating, conveying, mixing or transportation, our innovative structural engineering and trendsetting agitator technology delivers professional support across a whole range of working processes. We also strive to pass our procedural know-how to our customers and our bespoke system engineering provides complete solutions tailored to the needs of the customer.

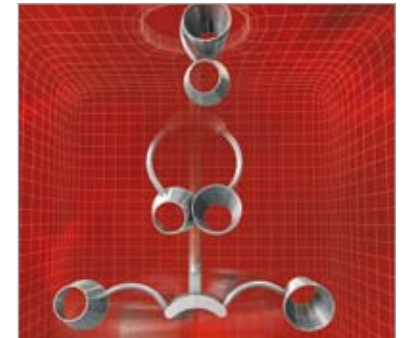
See the advantages of modern machine technology for yourself and benefit from increased operating efficiency and profitability. We would be happy to bring our experience to bear on your projects, working together to find the right solution for you. Get in touch!

### Structural engineering



A big help on your site: Inotec machines and tools reduce costs and increase efficiency.

### Agitator technology



Agitate slowly – with fast results: customers in many industries rely on Inotec's impressive agitator technology.

### Systems engineering



Planning, delivery, assembly: our specialists develop custom process equipment tailored to your needs and specifications.







Innovative structural engineering

Conveying, mixing, transportation

### Saves time and money

## Inotec structural engineering

**Every minute counts on the construction site. Deadlines are tight, quality standards are high and though the work must be good, the price must be right. Expectations of increasingly effective construction and fast, top quality work cannot be met without the help of modern, high-performance machines.**

We support our customers by implementing efficient work practices and providing painters, plasterers and the construction industry with the right solution for every job. As a full-range provider, Inotec is prepared for any challenge, supplying state-of-the-art machines and a comprehensive range of working materials, as well as custom silo systems in a wide range of sizes and designs. We can show you how to reduce set up times, how to use our machines and tools to apply your materials to walls, ceilings or floors, and how to organise your work-day efficiently, productively and economically.

We deliver our machines directly to your business, so we are always in direct contact with our customers to experience at first-hand the expectations today's tradesman have of modern construction technology.

#### The Inotec service network

Inotec maintains a service network of 20 locations covering all major cities in Germany, and 15 partners outside Germany. We are continuously expanding our decentralised network to make it easy to reach us at any time. Why not take advantage of the skills of our technical and service consultants? We're here to support you.

### Conveying



Light, handy and easy to operate: the Inomat M8 impresses with its innovative conveying technique.

### Mixing



The right mixture: from direct drive flow mixers to compact mixing pumps.

### Transportation



Extremely high performance, Inotec conveyor systems easily cope with heights of up to 20 storeys.

### Working materials



Whether you're looking for masking tape, paints or pliers, you'll find everything you need at Inotec.

< The Inomat M8 peristaltic pump: For gentle transportation of materials and high efficiency.



**inoBEAM F21** conveying pump



**inoCOMB Cabrio 0.2** conveying and mixing pump



**inoFLOW Easy** Easy low-mist paint spraying system



**inoPLAN Swing** special grinding machine for insulating wall panels



**inoCOMB Picco** mixing pump



**inoMIX S25** flow mixer



**inoCUT Premium 200/300** insulation cutting tool



**inoSPRAY XXL** high-performance airless device



**inoMAT M8** conveying pump



## What we do From idea to construction site

**At Inotec GmbH, we do much more than just sell traditional standard machines. We also provide a comprehensive repair service, conduct training courses, maintain a range of used machines, and offer replacement parts for our own and third party machines.**

We frequently develop new technologies for our customers, and regularly test our established solutions. Our main focus at all times is to develop custom solutions tailored exactly to the requirements at hand, from modern conveying pumps which, thanks to peristaltic technology, can safely transport sensitive materials, to dedicated solutions such as application systems for the prefabricated housing industry.

Our objective is to be a real partner for motivated craftspeople, painters, plasterers and concrete specialists. Come with us down the road of technical innovation – because that's where the future of the trade lies.

### At a glance:

#### Machine sales

Airless equipment, conveying pumps, high-pressure cleaners, insulation cutting tools, mortar machines, pneumatic conveyor systems, other tools and more.

#### Dedicated solutions

Mortar coating systems from hand-operated spraying systems to fully automatic coating.

#### Service/Consulting

Training, maintenance, lease machines, spare parts, accessories and more.

#### Repairs

Repairs to machines and equipment of every type – in the workshop or on the construction site: plastering machines, airless equipment, electrical equipment and more.

#### Construction site support

We come directly to your site to support machine processing, surface preparation and material transportation.

#### Attractive financing

Leasing and instalment purchase: we also offer attractive 0% financing for investments of 1,000 Euro and more.

## Develop



Dedicated solutions customised to the needs of our customers are par for the course for Inotec's developers.

## Produce



Continuous quality control during production: product improvements flow back into production.

## Use



And of course we also provide on-site customer support



inoBEAM Silo 0.4



inoBEAM Silo 1.0



inoCOMB Silo 1.0



inoCOMB Silo 3.0



inoMIX Silo 3.0



inoVARIO 0.7



## Less time, more earnings Inotec silo and machine technology

Trade businesses compete in a highly competitive market in which low cost operators push down prices and extremely tight deadlines make it increasingly difficult to meet rising standards of quality. That makes one thing clear: if you continue to work as you did in the past, you have little chance of success under today's conditions.

Our tip: take advantage of Inotec's state-of-the-art silo technology - the most efficient and inexpensive way to work with paint and plaster.

With Inotec silo technology, you can be sure of innovation and cost-effectiveness. Your work is faster and more effective. You reduce physical strain for your workers. You save lots of time, reduce labour costs and strengthen your competitive edge.

### From the silo to the wall

Inotec can supply you with silos for every job, from simple material containers through containers with integrated mixers to high-performance silos with both mixer and pump.

With the right conveying equipment, the material in the Inotec silo can be applied directly - to a height of 30 m over a hose length of 60 to 80 m. This makes our silos suitable for any conceivable situation. They can be used to process liquid, powdered and pasty products, and they also reduce the number of empty containers to be disposed of.

Let us assist you! We'll show you the right silo for your job and how to use innovative technology to secure a clear and enduring competitive edge.

## Silo technology



Easy to operate, requires little space, always produces a consistent mix: Inotec silo technology provides many benefits.

## Accessories



We provide all the accessories you need to work efficiently on your site.

## A perfect team



Machine-driven material transport pays: setup times are reduced, there are no sacks to carry, and material conveying is regulated automatically.





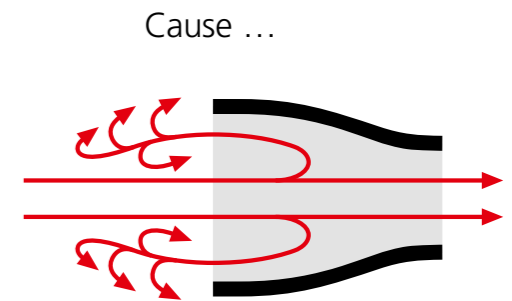
## Agitate slowly – with fast results Viscojet/inoJET® agitator technology

**There is power in tranquillity. And Inotec's proven technology confirms it. Through intensive research and development work, we have succeeded in creating a universal mixing element that delivers convincing performance with astonishingly little expenditure.**

Viscojet/inoJET® proves beyond doubt that for successful agitation, it's not the speed that's decisive, but the technique. Its particular strength lies in the special geometry of the conical mixing elements. With its cleverly-designed spatial and angular relationships, the agitator ensures an optimum mixing process in a very short time, even at the lowest rotation speeds. We've proven this technology in a wide range of industries. It is flexible, reduces costs and guarantees high-quality results.

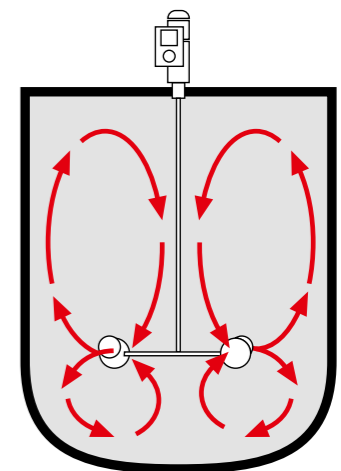
### Convincing benefits at a glance:

- No air is drawn in during the mixing process. On the contrary, the air in the mixture can actually be reduced.
- No frothing.
- Thanks to slow shaft speeds and very short mixing times, there is no significant warming of the mix medium.
- Product-friendly mixing using the dynamic pressure principle.
- Up to 50 % less energy use compared to traditional agitator systems.
- One for all: the Viscojet/inoJET® mixing element can be used for almost any job.
- Easy assembly means it's no problem to clean the mixing elements.



Accelerated laminar flows at the cone exit and the reverse turbulence created by dynamic pressure at the cone entrance interact as the agitator rotates, generating high-momentum mixing movements

### ... and effect



Extremely material-friendly and highly efficient agitator processes with very little energy expenditure are now possible. This applies particularly to tanks with very high volumes.

Trendsetting agitator  
technology

**Agitating, mixing,  
homogenisation**



## In use everywhere Viscojet/inoJET® large and small

From sensitive laboratory agitators through hand-operated and container agitators to support and tank solutions – Viscojet/inoJET® agitators are available in a wide range of sizes and versions to meet every user's needs.

The positive qualities of the Viscojet/inoJET® agitator apply to the whole product series and are completely independent of the type of container in use. So it doesn't matter if you are using a vertical or horizontal circular tank or a transport container with a rectangular layout – Viscojet/inoJET® produces perfect results in every application. The high-momentum currents generated when mixing with Viscojet/inoJET® are propagated within the medium in all common container geometries. Requiring no additional container fixtures, the medium is thoroughly mixed right into the corners. Even in very large tanks, metres high and holding hundreds of thousands of litres, a single mixing element will mix and homogenise the entire contents, and do it fast!

We would be happy to look in detail at your project, and work together to find the right solution for you. Get in touch!

< Viscojet/inoJET® agitator technology is extremely versatile: it can be used for example in the food, chemical and pharmaceutical industries.

### Container agitator

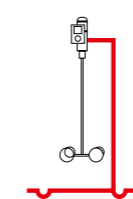


The container agitator type VJ350 is equipped with the „Tornado“ fold-away mixing element. It fits through the smallest opening and is flexible enough for use in alternating transport containers.

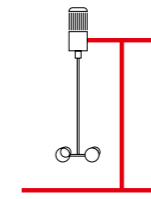
### Industrial agitator



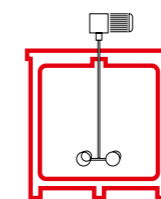
The Viscojet/inoJET® agitator system in the form of the type VJ500 tank agitator can be used for all tank geometries, whether vertical or horizontal, and with volumes from 2 litres to 1 million litres for both aqueous and high-viscosity media up to 100,000 mPas and more. It is also suitable for explosive atmospheres.



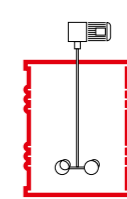
Laboratory agitator  
Type 100



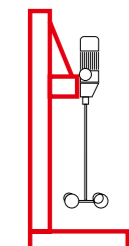
Technical school agitator  
Type 200



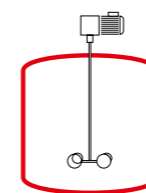
Container agitator  
Type 300, 350



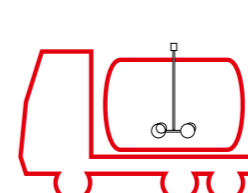
Vat agitator  
Type 370, 380



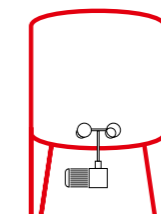
Support agitator  
Type 400, 420, 490



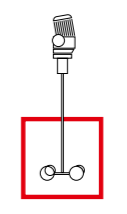
Tank agitator  
Type 500



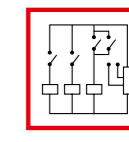
Tank agitator  
Type 510



Sub-level agitator  
Type 600



Special agitator  
Type 700



Controller  
Type 850



Soap and oil production



Paint and varnish production



Photo: Sto AG

Pharmaceuticals



Sweets



Photo: Alfred Ritter GmbH & Co. KG

Milk products



Paper production



Drinks production



Cosmetics



Ceramics



## Mixing today Impressive technology that pays

Whether its nano paint or yoghurt with fruit pieces, Viscojet/inoJET® agitator technology has been implemented world-wide in all kinds of industries. From process engineering through the chemicals, paper, foodstuffs and drinks industries to paint and varnish manufacturers, more and more companies are discovering for themselves that with Viscojet/inoJET® they can reduce their costs and optimise their processes.

In process engineering in the past, you needed different, specialised mixing elements to mix and homogenise media with different viscosity and in containers of different sizes and designs. This was enormously expensive for the user: first, you needed to select the right element for your application on the basis of numerous criteria. On top of that, to remain flexible you needed to maintain many elements – and in some cases even complete containers with built-in agitators.

### Mix slowly and save fast.

Viscojet/inoJET® agitator technology now allows you to improve your production processes, making them considerably cheaper and more effective: The elements are universal, increasing flexibility and allowing you to greatly reduce procurement and logistics costs. Moreover, Viscojet/inoJET® agitators, with their low drive capacities, use just a fraction of the energy you would otherwise require. So you save on investment and on operating costs too – and that adds up fast.

Want to know more? Then why not contact us? We would be happy to tell you more about the many implementation options for our agitator system.

### Agitator technology headquarters

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## Some references:

### Drinks

„We have decided to implement Viscojet/inoJET® agitator technology in as many of our CCA-operations worldwide as possible.“

*Max Oswald, Maintenance Manager at Coca-Cola Beverages*

### Paper

„With Viscojet/inoJET® agitator technology, homogenising, mixing and pumping pulp and filler dispersions into and out of IBC containers in our paper laboratory is no longer a problem.“

*Steffen Schramm, Experiment Manager at Papier-Technischen Stiftung (PTS)*

### Chocolate

„As food lovers, we want the best food processor. In Viscojet/inoJET® agitator technology, we have found an extremely effective agitator system that allows us to manufacture our products efficiently, but also in a product-friendly way, in a range of different containers.“

*Alfred Ritter GmbH & Co. KG*

### Paints and varnishes

„By implementing the Viscojet/inoJET® agitator system, we have further increased both flexibility within our production system and the quality of our products. Mixing is now successful even with very awkward tank geometries, such as rectangular tanks.“

*Karl Wörwag GmbH & Co. KG, paint and varnish manufacturer*

### Paints and plasters

„By implementing Viscojet/inoJET® agitator technology, we were able to improve the mix time for pasty paints and plasters at the same time as considerably reducing the mix time. Another benefit is that the mixing elements are quickly and easily cleaned after changing colours.“

*Rudolf Klemm, Technical Manager at Sto AG*





## A one-stop source for all your requirements The complete customer solution

We see the development and manufacture of process equipment and production lines built to the exact specifications and wishes of our customers as a special challenge, and one that we are eager to undertake.

We have amassed 14 years experience in the areas of pumping, mixing, agitating, pneumatic conveying and dosing of bulk and viscous materials. In addition to our standard range of machines, we also offer our customers complete systems, as well as in-line and special-purpose machines for the construction, chemical, plastic and food industries.

**For you, Inotec custom process equipment means:**

- Planning
- Delivery
- Assembly and implementation

In the planning stage, our specialists work together with you to optimise the process. Together, we develop the most economic solution. After shipment, our engineers oversee the equipment until the start of production. We supply you with a suitable controller and create documentation if required.

Bespoke systems  
engineering

**Planning, delivery,  
assembly**

### For additive manufacture



Battery of agitators for dyestuffs with added drying agents.

### In the paint industry



Large agitator tanks used for paint manufacture.

### In the chemical industry



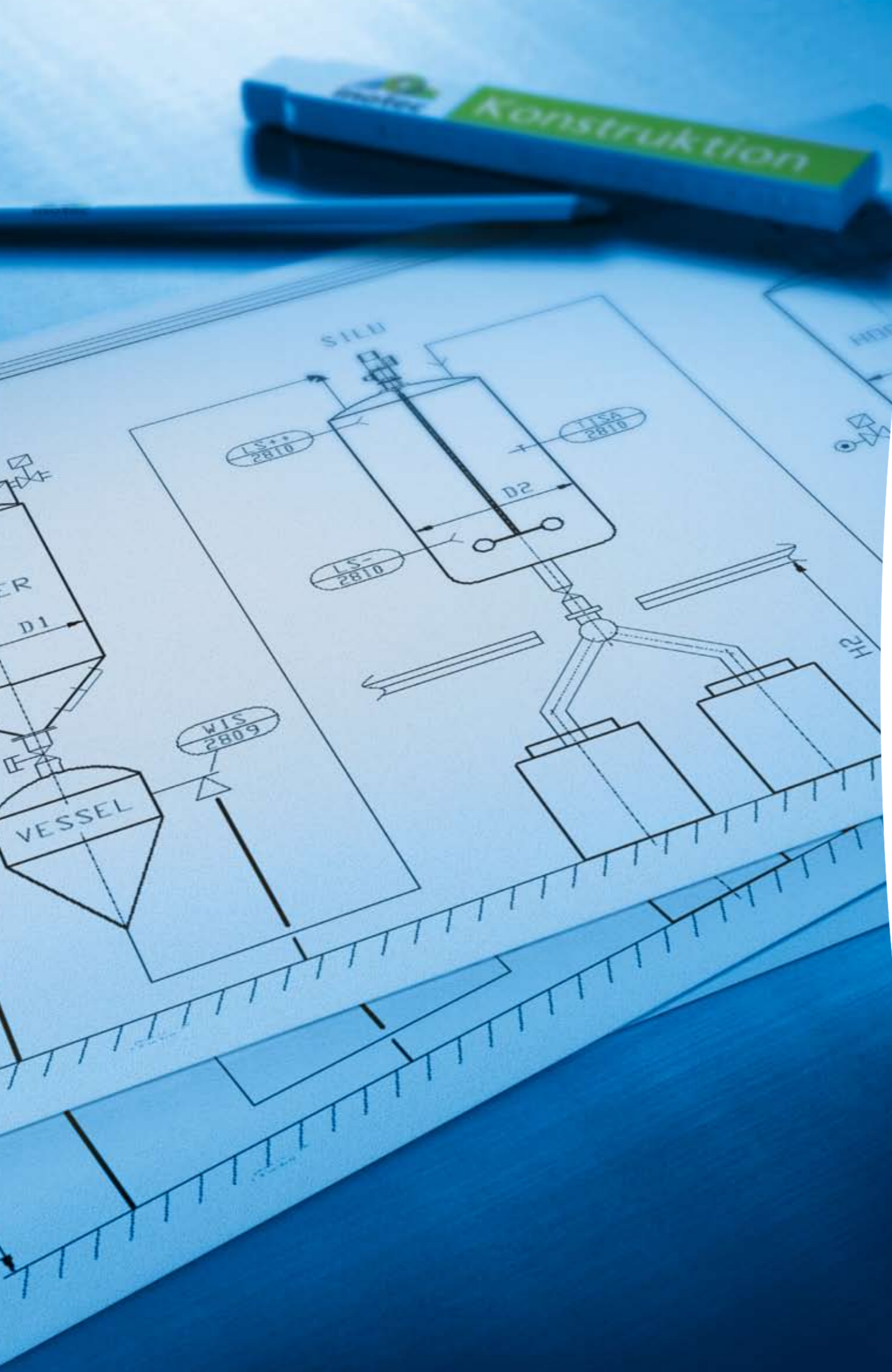
Battery of agitators for viscous material in the chemical industry.

### For prefabricated housing



Semi-automatic mortar spraying and extractor system for high-quality serial production of walls.  
Photo: WeberHaus





## Just as you wish Bespoke systems engineering

Inotec stands for experience, innovation and „Made in Germany“ quality. That can bring you profits! We're happy to place our extensive experience across many sectors at your disposal when developing your system. We develop solutions that guarantee you safety and reliability. And we combine our product and procedural expertise to create a perfect, customised end product.

Benefit from the comprehensive knowledge of our experts because when it comes to system engineering, only a complete system, well thought out in every detail, can guarantee maximum success.

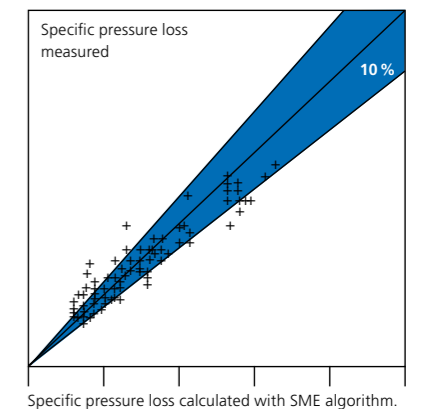
- Our experience in the areas of pumping, agitating, pneumatic conveying and dosing.
- Product-friendly pumping of viscous and high-viscosity materials with proper equipment.
- Product-friendly pneumatic plug and strand conveying of almost all bulk materials with pressure tanks.
- Product-friendly mixing and agitation, from liquids to high-viscosity and even bulk materials with our Viscojet/inoJET® system.
- Gravimetric and volumetric dosing of viscous and bulk materials with differential dosing scales.

Why not ask? Our process and systems specialists look forward to your call.

**Project management contact**  
Phone +49 (0) 7741 6805-680

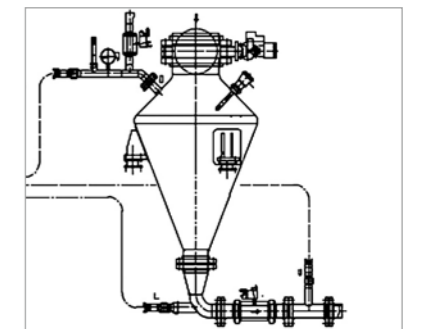
### Pneumatic dense phase plug conveying system inoPULS

Selective synchronised air injection into the conveying pump ensures that the product is conveyed slowly and gently. The plugs remain compact to the end of the conveying line. The inoPULS and inoDENSE conveyors are available in a range of sizes from 20 to 4000 litres in both mono and double vessel execution. The pressure range is between 4 and 10 bar. Mild and stainless steel versions are available. The systems from 1 – 50 t/hr performance and 30 – 500 m conveying length can be calculated without time-consuming testing.



#### Benefits of inoPULS, inoDENSE:

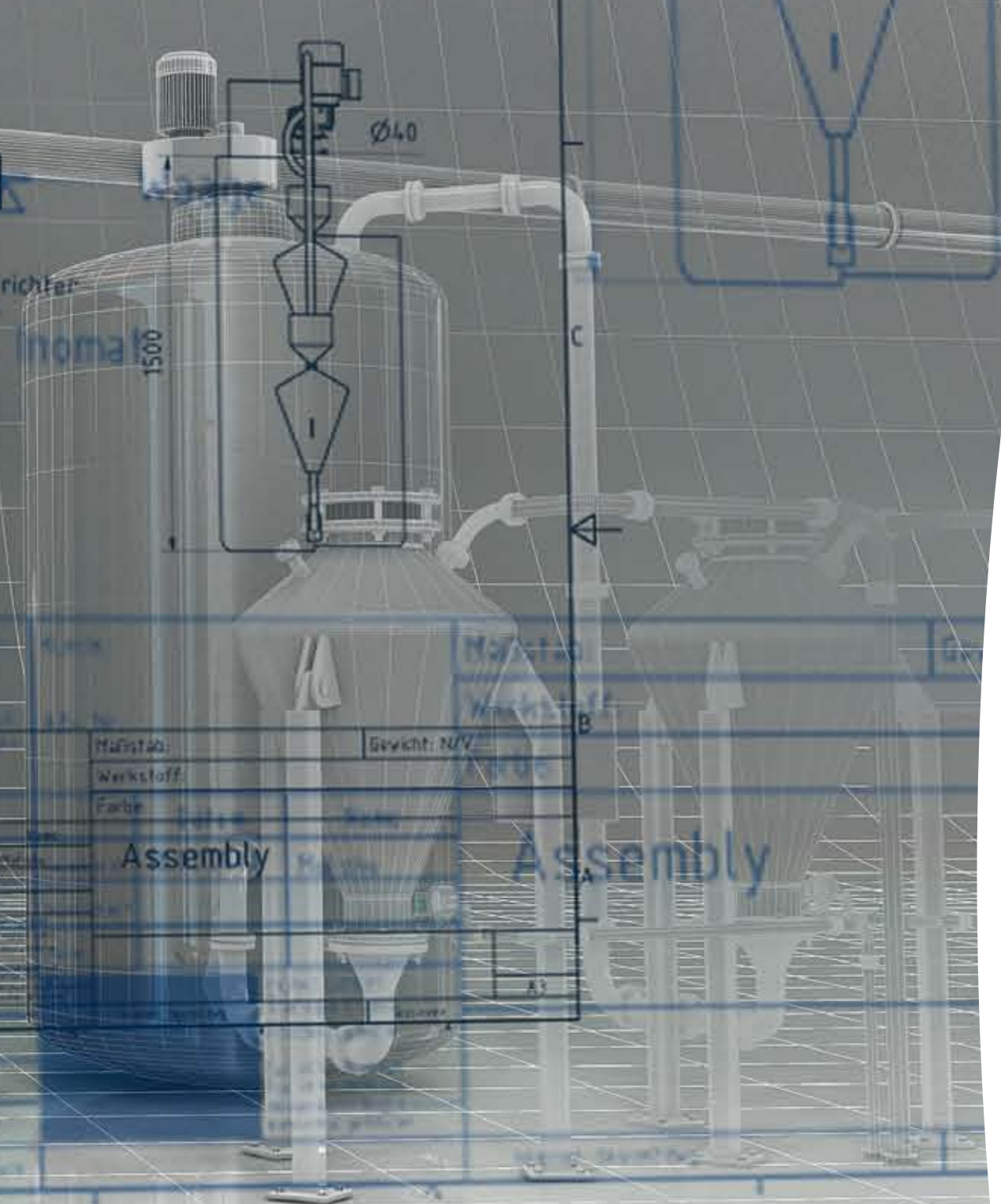
- Product-friendly plug and strand conveying
- Low gas consumption
- Sensitive products not damaged
- No demixing of mixes during conveying
- Long service life, no rotating parts
- Low investment, operating and maintenance costs, good overall cost-effectiveness



#### Applications from A to Z

Additives, adipic acid, aluminium oxide, amino acids, building materials, binding agents, cereals, chemical granulate, fertiliser, sensitive coated products, grain, fibre-reinforced plastics, glass granulate, coffee, lime, lime hydrate, corundum, chalk, plastic powder, corn starch, milk powder, mineral compounds, ready mixed mortars, nuts, polymer granulate, plasters and titanium oxide, sand and quartz products, starch, cement, zinc dust etc.





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