



Kubota Brabender Technologie

PRODUCT OVERVIEW

FEEDING. WEIGHING. DISCHARGING.





GLOBAL EXPERT IN BULK MATERIAL HANDLING

High precision for all requirements: Kubota Brabender Technologie is a worldwide leader in gravimetric and volumetric feeding systems. Our expertise is based on over 65 years of experience in the field of bulk material handling. We provide premium quality solutions to all sectors of industry. Our systems ensure the precise feeding, weighing, and discharging of materials of all kinds – from granulates, powders, fibers, and flakes to liquids.

Kubota Brabender Technologie is based in Germany and active around the world. The company maintains a local presence in Japan, Canada, China, India, and UAE. Our worldwide sales and service network allows us to operate with the highest quality standards all over the globe. Everywhere we operate, we have the same goal: We keep your processes flowing.

› MOVING FORWARD TOGETHER – GLOBALLY



In 2022, we further enhanced our global reach and technical expertise by becoming a subsidiary of the Kubota Corporation. Through this group, we benefit from comprehensive synergies, allowing us to expand our sales and service networks, consolidate our complementary technology, and share expertise. For our customers, this means enhanced innovation and a greater global presence – exactly where you need us.

WORKING FOR A BETTER FUTURE



Our company is part of the global community, and of many local communities around the world. We have a responsibility to our planet, the people who inhabit it, and the future. Kubota Brabender Technologie is committed to ensuring that our actions make the world a better place. Our world currently faces many challenges, from waste and pollution to resource depletion. The impact is particularly devastating in the closely linked areas of food, water, and the environment. At Kubota Brabender Technologie, we are committed to being part of the solution.



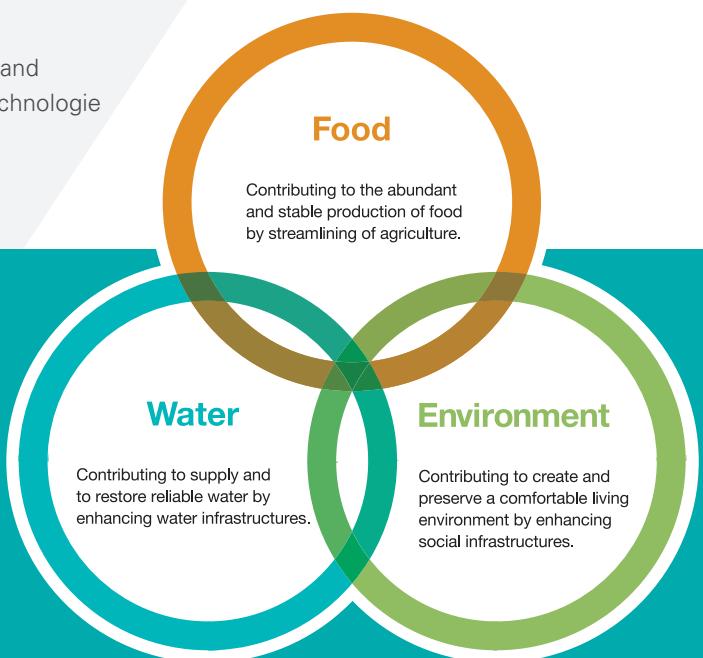
OUR GLOBAL PRESENCE

KEY FACTS ABOUT KUBOTA BRABENDER TECHNOLOGIE

- Over 65 years of experience
- Established in 1957 as Brabender Technologie KG in Duisburg, Germany
- 2022: Acquisition by Kubota Corporation and formation of Kubota Brabender Technologie GmbH
- 6 locations and over 50 agencies
- Over 50,000 employees at Kubota Corporation and around 280 employees at Kubota Brabender Technologie
- 14,000 bulk materials successfully tested
- Solutions implemented for 40,000 applications

For Earth, For Life Kubota

We develop solutions that minimize energy consumption and waste while maximizing efficiency, saving valuable resources. Our systems are crucial components of the recycling process, allowing the recovery of raw materials and preventing waste. We are always working to reduce the environmental impact of our activities – from office management to product design, testing, and manufacturing.



Food, water, and the environment are closely linked – and indispensable to human beings. By providing solutions that address pressing issues in these areas, the Kubota Group contributes to a better future for everyone around the globe.

PRECISION WITHOUT COMPROMISE



Feeding bulk materials requires accuracy. With over 65 years of expertise in bulk material handling, Kubota Brabender Technologie provides outstanding precision, ensuring the highest quality for your production processes. Our feeders are designed specifically for the respective bulk material and your requirements; their feed rates are exact and reliable. We are constantly optimizing our feeding solutions, control systems, and discharge devices so we can always provide you with the highest precision.

› THE RIGHT SOLUTION FOR EVERY PRODUCTION

Whatever your requirements, we have the solution. We offer a comprehensive product portfolio for bulk material feeding, weighing, and discharging. Whether your ingredients are powders, liquids, granules, or fibers, whatever special properties and demands they have: Our systems are designed to be precise and reliable, even in challenging production conditions.

› UNIVERSAL SYSTEMS – INDIVIDUAL SOLUTIONS

Our solutions are as diverse as your production needs. They are designed for versatility, and can be modified to meet your specific requirements. We collaborate with you to find the ideal solution for your production. Whether that is a universal system, a device customized to a specific ingredient, application, or an economic solution for less demanding feeding requirements.

INDUSTRY EXPERTISE

Our systems provide the gold standard in a diverse range of manufacturing industries. Our core markets include the batteries, plastics, food, pharmaceutical, and chemical industries. Our solutions are also integrated into production processes in many other industrial sectors, including animal feed, detergents, ceramics, glass, and construction materials. In all of these industries, our partners benefit from our in-depth knowledge of their specific requirements, raw materials, and regulatory environment. We understand the industries, and our expertise is their competitive edge.



› BATTERIES



› RECYCLING

Dust control and explosion protection are key safety issues in battery production. Whichever process the manufacturer employs: Our industry expertise allows us to provide feeding solutions that ensure both precision and safety.

Heterogeneous, poor-flowing, and highly diverse in shape and size: Shredding recyclable materials produces a regrind that is challenging to handle. Thanks to our specialized technology, our equipment reliably feeds even long, unevenly cut and non-flowable fibers.



› FOOD



› PHARMA

Ingredients in the food industry are often fragile, vary in sizes and shapes, and possess challenging properties. Our specialized equipment safely and reliably feeds food ingredients while meeting the industry's stringent hygienic standards.

The pharmaceutical industry poses a very specific set of challenges including flexibility, absolute precision down to the μg , and high sanitary and safety requirements.

› CHEMICALS



Chemical ingredients can be toxic, explosive, or highly flammable, and large production volumes demand high-performance solutions, while many applications call for precision in grams. Our systems for handling chemicals are tailored to meet every demand.



› PLASTICS

New formulas, innovative raw materials, and strict quality standards: The plastics industry demands versatile solutions that can adapt to innovation. Thanks to our industry understanding, we offer flexible systems without compromising on accuracy.

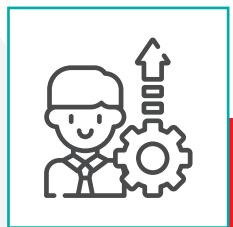
FURTHER
INFORMATION



FULL RANGE OF SERVICES

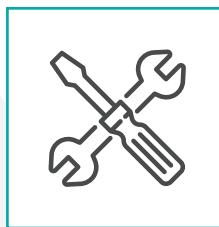
Premium quality is the result of an excellent product combined with first-class service. At Kubota Brabender Technologie, we see customer support as an essential part of our solutions. Through our international network of service experts, we provide customers around the globe with an extensive range of support services throughout our equipment's life cycle.

FURTHER INFORMATION



› COMMISSIONING

Our commissioning service ensures you get off to the right start with our systems. Our expert service technicians put the equipment into operation, setting it up for your production. They also provide professional training to your employees on operation and maintenance, making it easier to integrate new machinery into your processes.



› REPAIR

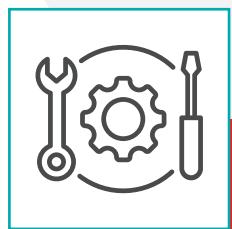
Should you ever have technical issues with one of our machines, our experienced technicians and specialists are at your service. They repair defective components as quickly and economically as possible using the latest technology. This allows you to get production up and running again in the shortest possible time, keeping downtimes to a minimum.





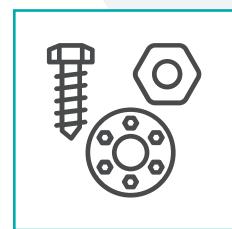
› MAINTENANCE

Regular maintenance is the best method of ensuring your equipment is continually operating at the highest standards. We offer maintenance agreements that ensure your equipment is serviced regularly by a qualified technician, consumables are replaced when needed, and your technology and software are always up-to-date. We also provide documentation for your internal ISO 9001 audit.



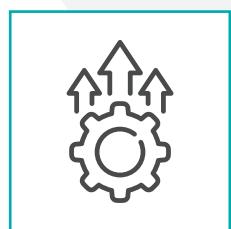
› SPARE PARTS

We keep a wide range of spare parts and consumables in stock at our worldwide service centers. We can immediately deliver most parts from our closest supply straight to your production facility. All we need is your machine/serial number, and the part will be on its way to you, shortening production delays.



› RETROFIT

We keep up with technical progress by continuously enhancing our systems to further increase precision and reliability. Sometimes upgrades can be handled via software updates, but at other times, electronic components must be replaced. To ensure your production facilities are always state-of-the-art, our experienced team helps you plan and efficiently manage modernizations.



› TRAINING

When you need support, we are only a click away. Find an international hotline near you through our service website, or simply contact us online. Our service site also provides brief technical instructions for our control systems – including help with updates. Not least, we offer a range of training courses that you can sign up for by email.

REGISTRATION FORM
FOR TRAININGS



TRAINING
CATALOG



THE IDEAL FEEDING PROCESS

In manufacturing, the accurate and reliable feeding of raw materials into a system for further processing is a crucial step. It directly affects both the production as a whole and the quality of the end product. Finding the best feeding solution for every application is essential. Kubota Brabender Technologie offers a broad portfolio of versatile, premium-quality feeding systems. In our test centers around the globe, we analyze and assess raw materials, working closely with our customers and leveraging our comprehensive expertise to find the right solution for every production process.

› CONTINUOUS OR BATCH PROCESSING

Both batch and continuous processes are reliable methods for industrial feeding. When choosing between them, the main factors to consider are the ingredients, formulations, processing times, and production volumes. Product quality as well as hygienic and safety requirements are also important considerations.

Continuous

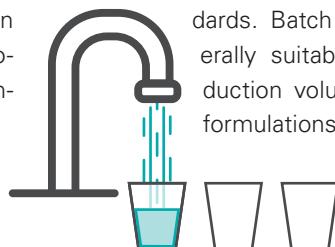
In continuous processing, an uninterrupted stream of ingredients is fed into a system to be processed further. Continuous processing is highly efficient. The ingredients are always moving through the system and there is very little downtime, allowing higher production volume. This method is generally more suitable for high throughputs or mass production with few formulation changes. The longer the production process runs, the higher the economic efficiency.



Batch

Batch processing is the more traditional method. Here, ingredients are measured out in individual batches and mixed together to be processed further. The control process is easier for this method because all ingredients are mixed together at the same time. It is easy to ensure they are properly combined and the

final product meets all quality standards. Batch systems are generally suitable for limited production volumes with multiple formulations.



CONTINUOUS
VS BATCHING
PROCESSES



› HANDLING DEMANDING FLOW CHARACTERISTICS

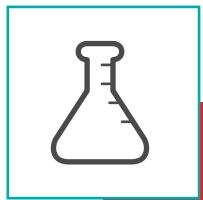
The flow characteristics of bulk materials vary considerably, and different materials pose a wide variety of challenges. To ensure their exact and consistent feeding, their chemical and physical properties must be taken into account. Our comprehensive expertise in the field of materials allows us to rise to this challenge, providing you with the ideal feeding solution for your specific ingredients.

There is a clear trend in manufacturing:
More and more applications are being
switched from batch feeding to
continuous processing.
With state-of-the-art equipment
tailored specifically to the process,
this generally leads to an increase
in efficiency and product quality.

› GRAVIMETRIC OR VOLUMETRIC FEEDING

Ralf Kanter,
Head of Sales Germany

While gravimetric feeders measure by weight,
volumetric feeders dispense by volume.
Which system is preferable depends on the
required levels of precision as well as the spe-
cific production process.



› GRAVIMETRIC
(BY WEIGHT)

› VOLUMETRIC
(BY VOLUME)



› VISCOS: LIQUID



› ABRASIVE: SAND



› STICKY: RAISINS



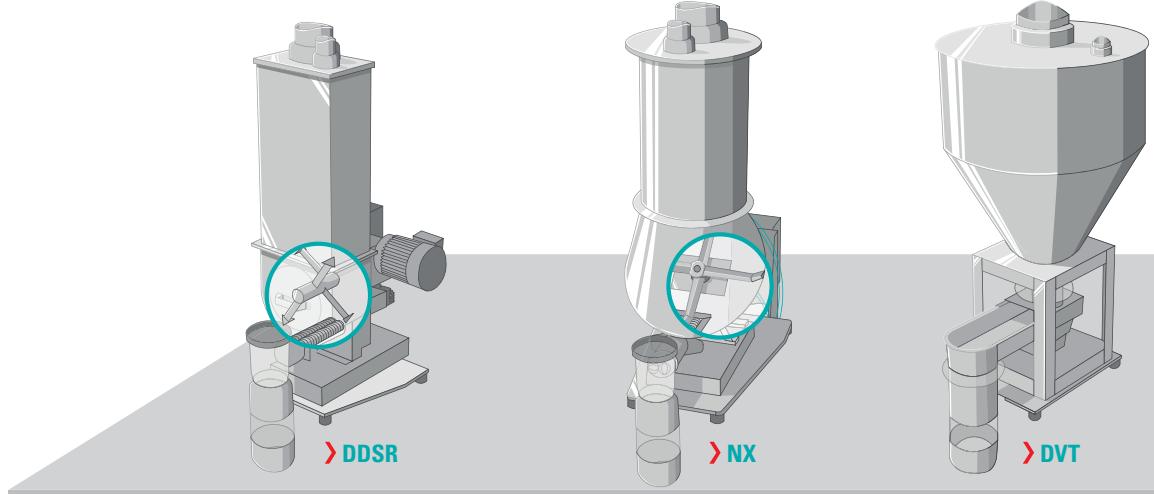
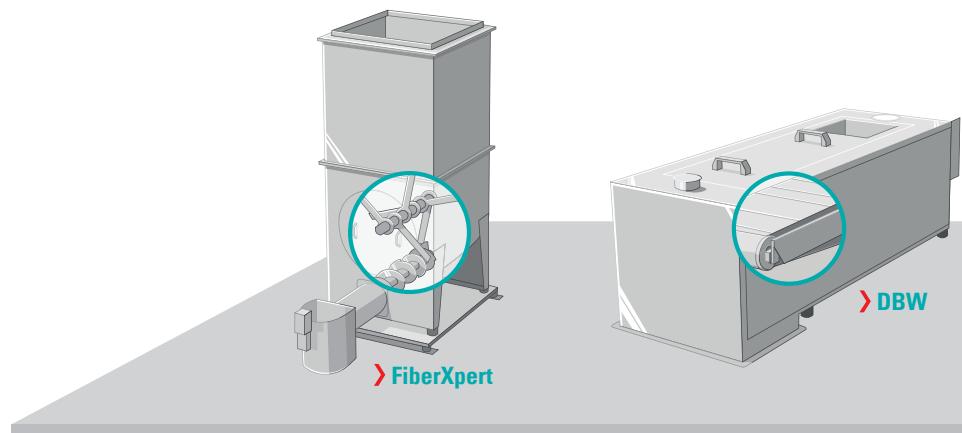
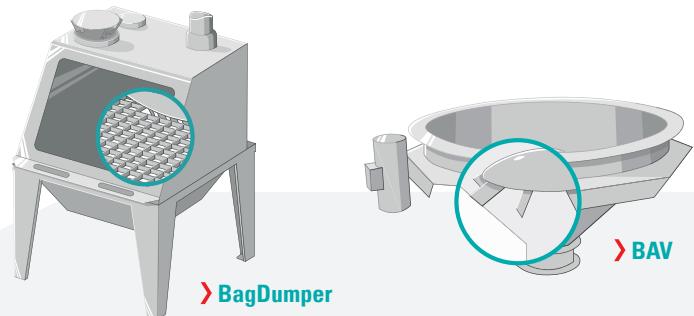
› INTERLOCK: FILM REGRIND



› FREE FLOW: PELLETS

INTEGRATED SOLUTIONS FOR LIQUID AND BULK MATERIAL HANDLING

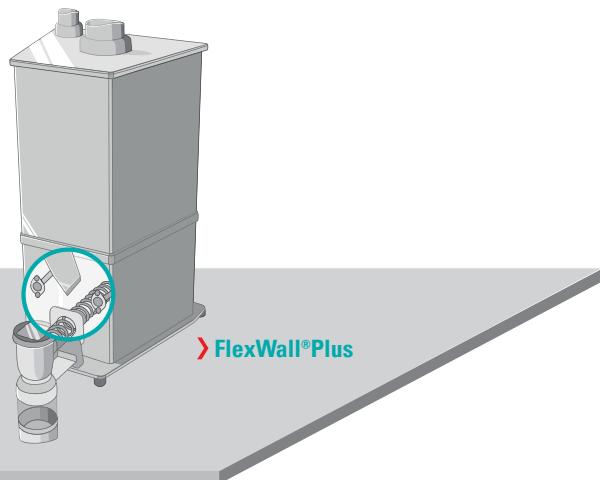
Kubota Brabender Technologie offers a complete range of equipment for feeding, weighing, and discharging – all from a single source. Whatever your requirements, whether you need a single feeder or a complete system: We have the solution for you.





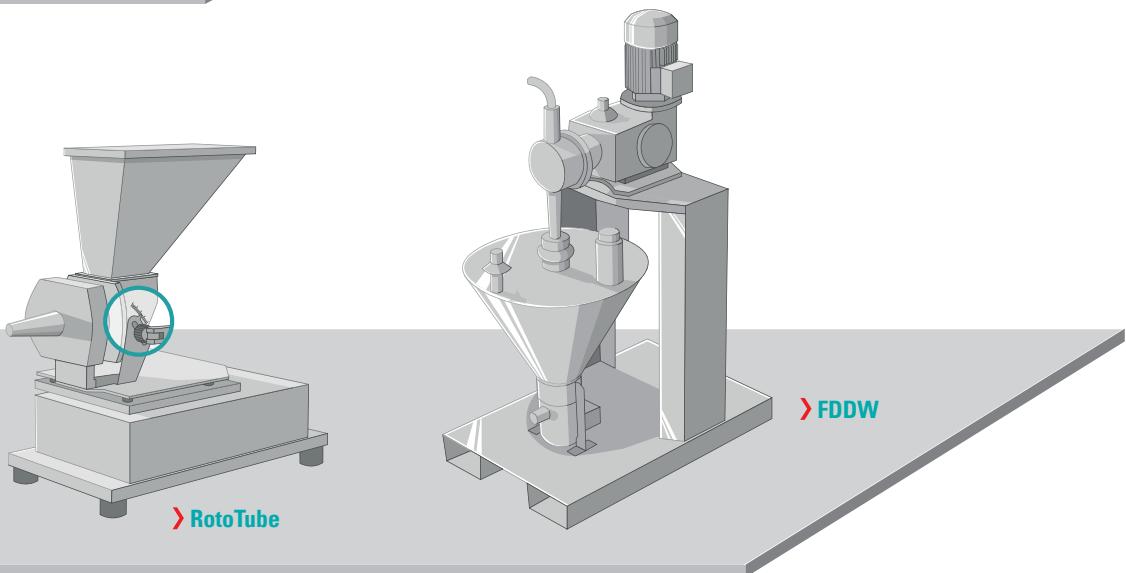
› DISCHARGING: THE PERFECT FLOW

From bag dump stations to bulk bag unloaders and vibratory activators for silos: Kubota Brabender Technologie provides a comprehensive portfolio of discharge solutions for your bulk materials.



› FEEDING: MAXIMUM ACCURACY

Loss-in-weight feeders, gain-in-weight feeders, single- and twin-screw feeders, vibratory tray feeders, weigh-belt feeders, and more. Kubota Brabender Technologie has the right solution for feeding your bulk material – from liquids and powders to fibers, flakes, and coarse-grained ingredients.



COMPREHENSIVE PRODUCT PORTFOLIO

Sophisticated design, robust construction, and exceptional performance: We provide state-of-the-art solutions for feeding, weighing, discharging, and process control. Our feeders are designed for a wide range of applications and bulk materials, and can be modified to meet your specific needs or market changes.

› HIGH-TECH FEEDERS FOR ALL REQUIREMENTS

Our gravimetric and volumetric feeders are ideal for use with virtually every bulk material. We manufacture a broad spectrum of feed mechanisms, agitation systems, and pumps, so that we have the optimal solution for every material – including sticky and clumping ingredients, abrasive and interlocking materials, and highly viscous liquids.

Are You Interested in Our Solutions?

Visit our website for additional information on our products. Every model's technical specifications, options and accessories are available online on their Work Standard.



› UNIVERSAL SINGLE-SCREW FEEDER WITH AGITATED HOPPER

The universal feeder FlexWall® Plus is ideally suited for virtually all flowable materials, including those with poor or demanding flow characteristics.

FlexWall® Plus at a Glance

- Suitable for virtually all flowable ingredients
- Available in a wide range of volumetric and gravimetric versions
- Quick response to ingredient and feed rate changes
- Flexible polyurethane hopper agitated by amplitude-adjustable paddles
- 3-phase motor
- Versions with separate paddle motors for materials with challenging flow characteristics
- Easy disassembly and cleaning
- Feed rate 50–11,250 dm³/h (1.77–397.29 cuft/h)

SUITABLE FOR



POWDER



PELLETS



FOOD



FIBERS

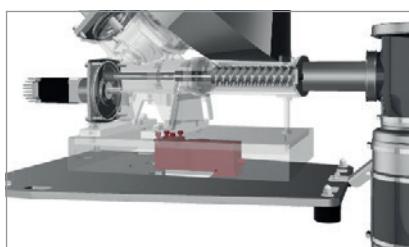
NX FEEDER

› INNOVATIVE TWIN-SCREW FEEDER

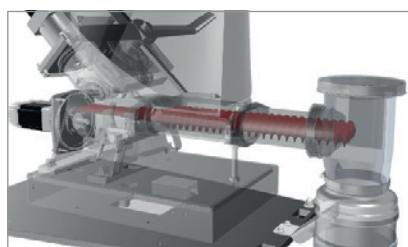
The gravimetric NX Feeder is an excellent choice for feeding poor flowing, sticky powders, fibers and granulates at low to medium rates.

NX Feeder at a Glance

- Suitable for difficult, sticky powders, fibers and granules
- Negative wall angle structure and diagonal agitator structure prevent bridging and ensure optimal flow
- The diagonal agitator provides high weight stability and feeding accuracy
- Additional options include pressure compensation and quick-release lock at vertical outlet
- Easy disassembly and cleaning
- Feed rate 1–2,000 dm³/h (0.04–70.63 cuft/h)



Load cell



Twin screw



Smart motors



Agitator

SUITABLE FOR



POWDER



GRANULATES

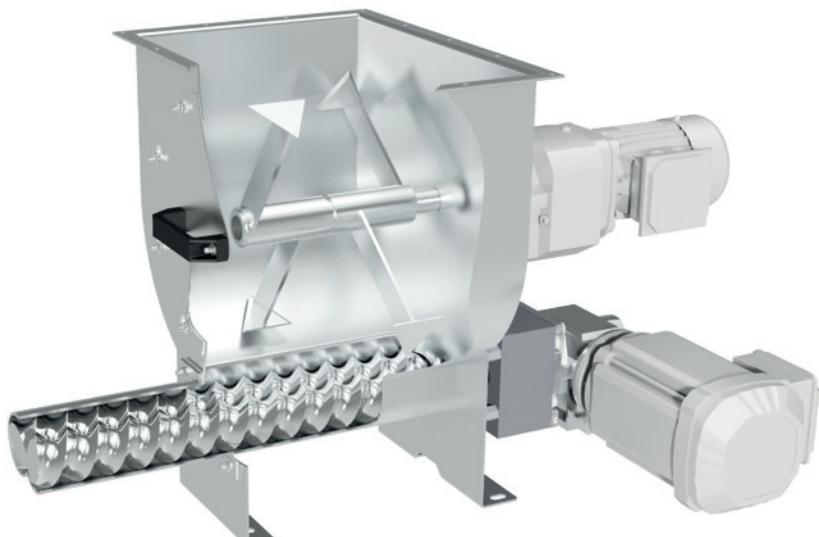


FIBERS

DSR & DDSR

› SINGLE- AND TWIN-SCREW FEEDERS WITH AGITATORS

Ideal for handling challenging, sticky bulk materials: Versatility and modular design make DSR and DDSR feeders an excellent option for many industries.



DSR60 2.0

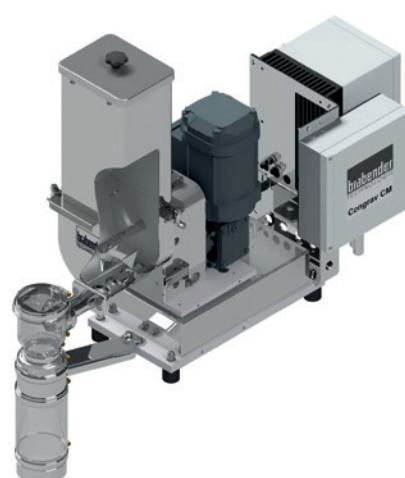
DSR and DDSR Feeders at a Glance

- Suitable for powders and granules
- Available in volumetric and gravimetric versions
- Horizontal agitator in hopper prevents bridging and ensures material flow
- Modular design for adaptability and quick adjustment
- Easily disassembled for wet or dry cleaning
- Hygienic design (optional): suitable for foods or pharmaceutical applications
- Optional smart motor with extremely high adjustment range of 1:100

| Feed Rate | Single Screw | Twin Screw |
|---|--------------|--------------|
| 1–500 dm ³ /h 0.04–17.67 cuft/h | DSR28 2.0 | DDSR20 2.0 |
| 4–3,743 dm ³ /h 0.14–132.18 cuft/h | DSR67/B 2.0 | DDSR40/B 2.0 |
| 50–7,500 dm ³ /h 1.77–264.86 cuft/h | DSR103 2.0 | DDSR60 2.0 |



DSR67 2.0



DSR28 2.0

SUITABLE FOR



POWDER



GRANULATES

FIBERXPERT



FDDW



› FULLY CUSTOMIZABLE LIQUID FEEDER

The versatile loss-in-weight feeder FDDW is a highly customizable solution for feeding liquids of all kinds.

› SPECIALIZED FEEDER FOR FIBERS

The patented gravimetric feeder FiberXpert is designed specifically for feeding all types of long and uneven fibers, including natural wood, carbon fibers, PP, PET flakes, shredded film or carpet, and more.

FiberXpert at a Glance

- Suitable for long, irregular non-flowing ingredients, film chips, and shredded film strips
- Innovative design with special fiber screw, large steep-walled hopper, and adjustable agitator arms
- High-tech weighing system with high-resolution digital load cell or strain-gauge load cell with advanced filtering technology
- Inspection port for easy cleaning and maintenance
- 3-phase agitator motor
- Pulsation-reducing rotating flow blade with 3-phase motor

SUITABLE FOR



FIBERS



(BOTTLE) FLAKES

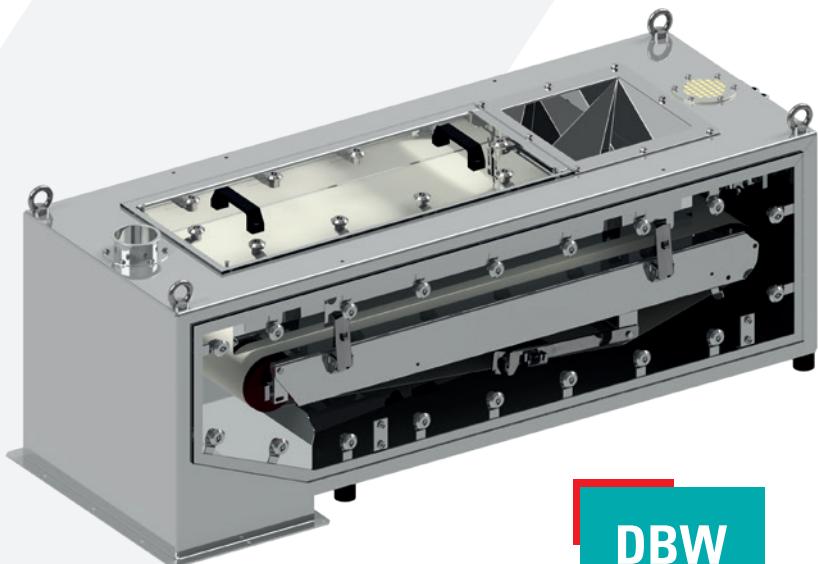
FDDW at a Glance

- Suitable for virtually all liquid ingredients
- Customized to the properties of the ingredient (density, viscosity, solids content, temperature, pressure requirements, reactivity, toxicological properties, etc.)
- Easy to modify for accuracy, feed rate, turndown ratio, backpressure, etc.
- Easy-to-clean hygienic design: suitable for use in the food and pharmaceutical industries
- Heated versions available
- Feed rate 1–10,000 dm³/h (0.04–353.15 cuft/h)

SUITABLE FOR



LIQUIDS



DBW



DVT

› **ROBUST AND COMPACT
WEIGH-BELT FEEDER
FOR GENTLE PRODUCT HANDLING**

At any feed rate, the DBW weigh-belt feeder feeds good-flowing ingredients with outstanding precision.

DBW at a Glance

- Suitable for normal to good-flowing ingredients
- Solid, dust-proof design for challenging production environments
- Removable panels for easy cleaning
- Suitable for feeding in continuous or batch processes as well as flow metering
- Feed rate 100–100,000 dm³/h (3.53–3,531.47 cuft/h)

› **VIBRATING-TRAY FEEDER
FOR FRAGILE INGREDIENTS**

The DVT feeders discharge ingredients gently by means of a vibrating tray, making them the ideal choice for fragile ingredients.

DVT at a Glance

- Suitable for fragile and free-flowing bulk materials
- Vibrating tray with electromagnetic vibration drive
- No stirring agitator or other rotating parts – fragile ingredients flow without degradation
- Vibration amplitude feedback ensures linear flow at every feed rate
- Feed rate 10–6,500 dm³/h (0.35–229.55 cuft/h)

BOTH FEEDERS ARE SUITABLE FOR



FOOD



FIBERS



POWDER



PELLETS

ROTOTUBE 2.0

› FEEDER FOR FINE-GRAINED INGREDIENTS IN GRAMS

The rotary-tube feeder RotoTube 2.0 reliably feeds granules as well as fine-grain ingredients at very low feed rates.



RotoTube 2.0 at a Glance

- Suitable for granules and fine-grain ingredients at feed rates as low as a few grams per hour (feed rate 1–5 dm³/h (0.04–0.18 cuft/h))
- Fully adjustable tilting of rotary tube to adjust output as required
- Volumetric and gravimetric versions available
- High-tech weighing system with digital load cell DigiMASS-2 for outstanding accuracy (gravimetric version)

SUITABLE FOR

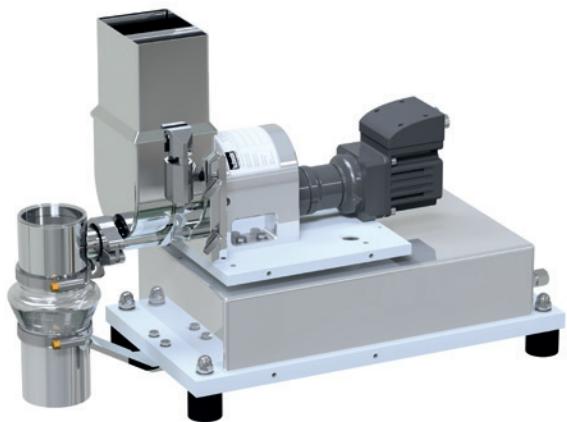


GRANULATES

MINITWIN 2.0

› HIGH-PRECISION TWIN-SCREW FEEDER FOR POWDERS AND FINE-GRAIN INGREDIENTS IN GRAMS

The MiniTwin range allows extremely precise feeding at very low rates.



MiniTwin at a Glance

- Suitable for powders, granules, and fine-grained ingredients at low feed rates (feed rate 1–5 dm³/h (0.04–0.18 cuft/h))
- Volumetric and gravimetric versions available
- High-tech weighing system with digital load cell DigiMASS-2 for outstanding accuracy (gravimetric version)

SUITABLE FOR



POWDER



GRANULATES

DISCHARGE SOLUTIONS THAT KEEP PRODUCTION FLOWING

Our bulk bag unloaders, bag dump, and vibratory activators ensure consistent and reliable flow of ingredients from your bulk bags, silos, or bins. No matter how challenging their properties: With our discharge solutions, your bulk materials flow smoothly – so your production processes can do the same.



BAGMASTER

› FREE-STANDING DISCHARGE STATION WITH PADDLE MECHANISM FOR BULK BAGS

The BagMaster bulk bag unloader ensures dust-free unloading of lined and unlined bulk bags weighing up to 1.5 metric tons. Even poor-flowing bulk materials are safely and fully discharged using a twin-paddle massage mechanism, and the optional built-in feeder offers the choice of feeding ingredients directly from the bag.



BAGDUMPER

› VERSATILE DISCHARGE AND REFILL SOLUTION WITH MODULAR CONFIGURATION

The BagDumper is suitable for a broad range of ingredients and can be used as a refill device for gravimetric feeders. With the optional built-in feeder, bagged ingredients can be emptied directly into the feeder instead of a standard extension hopper. An optional bin activator ensures the reliable discharge of poor-flowing ingredients, and the optional glove-box design allows the safe emptying of bags containing dusty or toxic ingredients.

SILOTRAYS & BIN ACTIVATORS (BAV)

› VIBRATORY ACTIVATORS FOR CONTROLLED DISCHARGE FROM SILOS AND BINS

The vibratory activators SiloTray and BAV guarantee the controlled discharge of bulk materials from silos and bins. They ensure a steady product flow by means of electromechanical vibrators, which prevent bridging and allow the non-compacting “first in – first out” discharge of challenging ingredients. SiloTray is ideal for discharging fibers and other demanding materials, while BAV is the optimal solution for powders with poor flow characteristics.



SMART CONTROL TECHNOLOGY FOR SEAMLESS INTEGRATION

To deliver the best results, feeders require a smart control system with flexible interfaces. Our sophisticated control solutions enable your equipment to live up to its full potential. They manage the complex gravimetric feeding process, connecting our feeders with other host systems and documenting your processes for quality management.



Congrav® OP-S:
Touch screen operator interface for a single gravimetric feeder



Congrav® OP16-E:
Touch screen operator interface for up to 16 gravimetric feeders

CONGRAV®

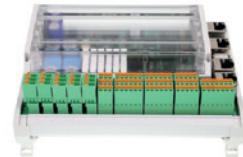
› CONTROL SYSTEMS FOR SINGLE AND MULTIPLE GRAVIMETRIC FEEDERS

The intelligent Congrav® control modules ensure the accurate performance of our gravimetric feeders. They are designed for demanding industrial environments and can be feeder-mounted or installed in a control cabinet. The feeders are either controlled directly

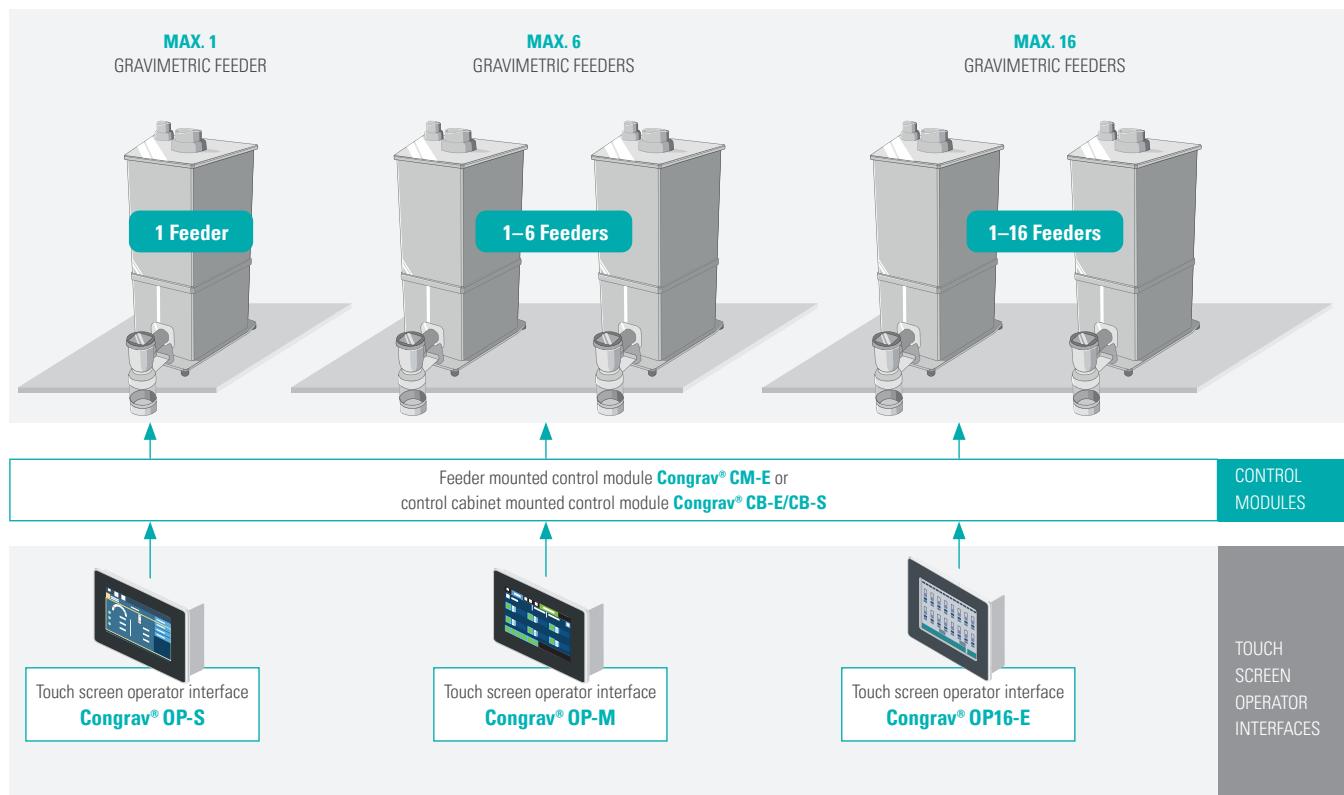
via the host/PLC system or via a connected Congrav® touch screen operator interface.



Congrav® CM-E:
Feeder mounted control module



Congrav® CB-E:
Control cabinet mounted control module



Multiple feeder control solution for gravimetric feeders with feeder-mounted control modules (control via direct connection to a host/PLC system or via a touch screen operator interface)



Kubota Brabender Technologie

Keep the Flow



ALL CONTACTS



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5.

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Kubota Brabender Technology
(Beijing) Co. Ltd.
3rd F, B Section, No. 3 Workshop,
2nd Project of Guanglian Industrial Park,
No. 2 Kechuang East 5th Rd.,
Opto-Mechatronics Industrial Park
Tongzhou, Beijing 101111, China

6.

KUBOTA BRABENDER TECHNOLOGIE MIDDLE EAST

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