

PLASTICS FEEDING SOLUTIONS



PLASI

HERETO STAY – PLASTICS IN USE AROUND THE WORLD

and have multiple applications. Adhesives that incorporate plastics can, for example, substitute well. Regardless of where engineering plastics are always very high.

What matters most in manufacturing highthey need to exhibit the desired characteristics.

Plastics are hard-wearing and durable materials Kubota Brabender Technologie's high-tech feeders are able to meet this challenge - they feed the required raw materials to the desired for weld seams. This multi-functional material is standards of reliability and precision. Compoundoften used to make electrical components as ing different powders, additives and fibers produces premium engineering plastics in granular are used, the standards that they have to meet or pellet form. Feeders from Kubota Brabender Technologie are of course also used for their further processing in film, sheet, profile and pipe performance plastics is precision, meaning that extrusion lines. Furthermore the production of master batches is another industrial segment in which Kubota Brabender Technologie feeders are in operation worldwide.



>TECHNOLOGY IN OPERATION



Discharge characteristics





Gravimetric feeders in operation

MAXIMUM PRECISION GUARANTEED

Kubota Brabender Technologie has an in-depth Regular maintenance ensures that they function know-ledge of plastic industry requirements and accurately and reliably for many years. Several provides high-performance equipment that can low-maintenance components reduce lifecycle perform even the most sophisticated feeding functions. Thanks to state-of-the-art weighing for example a fast bulk ingredient changeover technology our equipment operates to an opticapability as well as easy cleaning. Control sysmum degree of precision – both in continuous tems with intuitive operator guidance enable operation and batch feeding environments.

The appeal of Kubota Brabender Technologie's feeders lies in their sound design and engineering.

costs. Simple handling also increases efficiency individual feeders and entire process lines to be operated easily and conveniently.



> PRECISION-FED

We provide feeders with analog and digital load cells. We recommend digital load cells – the centerpiece of Kubota Brabender Technologie's gravimetric feeders – if precision feeding is required. Here we combine digital signal processing with a vibrating wire technology. Kubota Brabender Technologie has partnered with the inventor of the vibrating wire load cell for 35 years now.



Featuring an internal resolution of 1:4,000,000 and a measuring cycle time of just 20 to 30 milliseconds, the digital load cell delivers extremely accurate data to the controller in no time at all. A software filter also helps to dampen any vibrations and to deliver long-term stability. Last but not least a serial interface at the load cell enables data to be exchanged quickly and reliably.



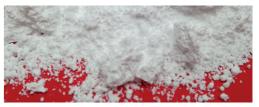


FEEDER OPERATING PRINCIPLE

An all-rounder: the FlexWall*Plus metering feeder with its paddle-massaged flexible hopper is the main type of feeder used for plastics. It ensures consistent screw filling levels and zero-degradation ingredient mass flow – particularly important when handling sensitive bulk ingredients or those with poor flow characteristics. The trapezoidal design of the hopper aids the natural flow of the bulk ingredient, which is also assisted by the amplitude-adjustable paddles. Paddle frequency can be specifically adjusted to match bulk ingredients and their flow characteristics.



Glass fibers for compounding processes



Fillers/additives



Plastic pellets



DIVERSITY NECESSITATES GUIDANCE

Feeding, weighing, discharging and control are our core skills. To provide you with optimum guidance to the wide range of options we offer in various segments, we have branded our equipment in accordance with these segments. This enables you as a customer to identify all Kubota BrabenderTechnologie equipment straightaway and to categorize it according to requirements.





PREMIUM-FINISH FEEDERS

Our V-FEED and G-FEED brands provide you with a range of different volumetric and gravimetric feeders (according to volume or weight) to handle your bulk ingredients. Thanks to state-of-the-art technology and premium workmanship, these machines deliver maximum-accuracy results. All machines can be custom-enhanced at any time and adapted to meet modified production circumstances.



RELIABLE DISCHARGE

D-CHARGE is the Kubota Brabender Technologie brand that covers a range of products for discharging your bulk ingredients. Be it bagged ingredients or ingredients from bulk bags, silos or other types of bin – our discharge aids enable you to discharge any kind of bulk ingredient with no hassle.







PRECISION WEIGH-BATCHING

Kubota Brabender Technologie offers a range of different solutions branded S-BATCH und M-BATCH for the automatic and accurate weigh-batching of bulk ingredient quantities. These facilitate single or multiple ingredient weigh-batching in accordance with the "loss-in-weight" or "gain-in-weight" principle.







CONTROL SYSTEMS USING SMART SOFTWARE

The S-CON and M-CON brands are the control system solutions of Kubota Brabender Technologie. Be it single feeder or multiple feeder control systems, feeder-integrated or control cabinet-installed, thanks to our smart systems up to 16 feeders in a single process line can be controlled if required.

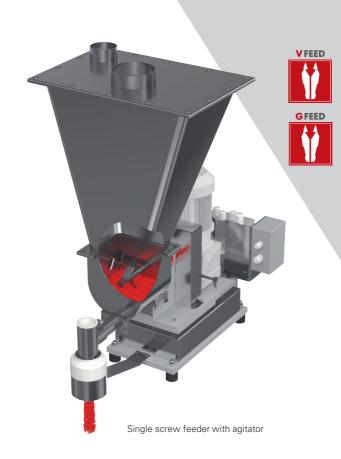
OUR PLASTICS SPECIALISTS

Be it the FlexWall*Plus or with-agitator version, our screw feeders feed your bulk ingredients continuously or batchwise, volumetrically or gravimetrically and always deliver precision. The various bin sizes and types of screw available means that they can be perfectly matched to your production needs and processes. You can rely on that!



A choice of either a stainless steel hopper with agitator or a flexible polyurethane hopper with external massage paddles ensures proper bulk ingredient flow. The twin screw loss-in-weight feeder with stirring agitator is the best feeder for powders that have extremely poor flow qualities.

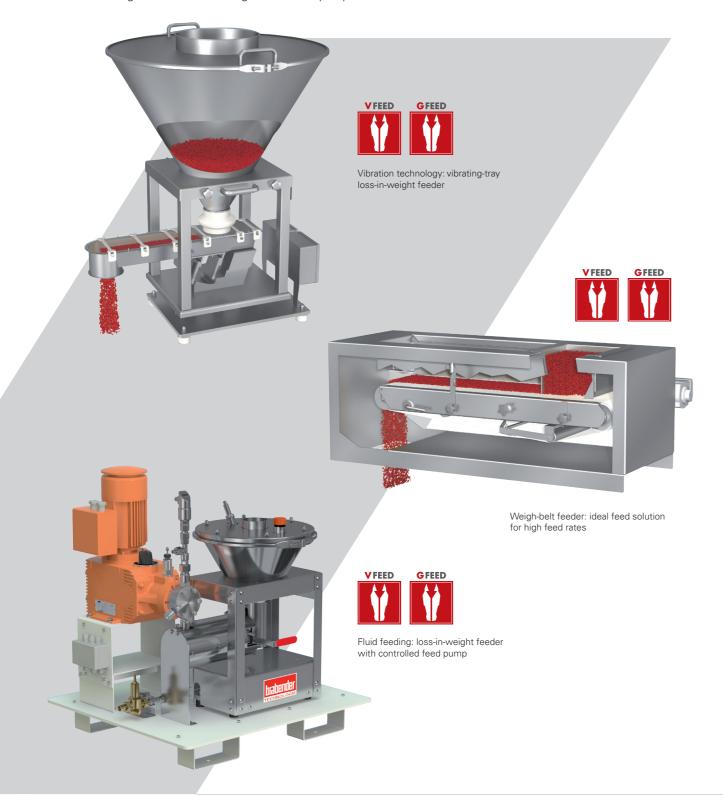
It can be combined with an agitator in the bin – for integrated activation from inlet to outlet. Self-cleaning screws in combination with a special design simplify cleaning and speed up bulk ingredient changeovers.





TECHNOLOGY OVERVIEW

Kubota Brabender Technologie provides feeders for all applications and bulk ingredients. Where high feeding performance is required, we recommend our weigh-belt feeders with a maximum feed rate of 150 cubic meters per hour. Our vibrating tray feeder specializes in zero-degradation feeding of sensitive or brittle bulk ingredients. For liquids we offer loss-in-weight feeders with a range of different pumps.



DISCHARGING

Problems can arise during discharge or emptying of bulk ingredients, which can cause further production process delays. Kubota Brabender Technologie has the solution to this problem: our discharge aids, like the BagMaster or BagDumper, enable you to reliably deliver bulk ingredients with poor flow qualities to the feeding process.







Bagged ingredients and pellets or powder from bulk bags can be discharged easily and reliably. Our bag dumpers and bulk bag unloaders are also available with integral metering feeders. This saves time and money. We also provide vibrating discharge aids for silos and bins.

> CONTROL

BagMaster

S-CON and M-CON enable you to control individual gravimetric feeders as well as complete systems. If needed our service engineers can access your system via the Internet to perform remote maintenance. This is practical, saves time and is an inexpensive alternative to an on-site visit.



Operating unit for individual gravimetric feeders



Multi-feeder control featuring process visualization





>CLIENT-PLUS

>SERVICE





Screw tubes in the spare parts warehouse







Screw replacement





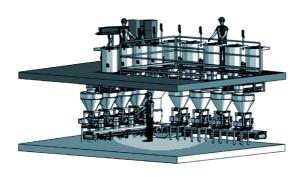
Retrofitting/Modernization

IN GOOD HANDS -FAST AND UNCOMPLICATED



parts and consumable worldwide. Personal attendance by one of our service engineers to

Why not get in touch with us - we would be delighted to provide you with the advice you require. We help you to identify your specific needs and recommend the right equipment. You can test out how our feeders handle different bulk ingredients at our test labs. To enable you to use our equipment effectively at your production facilities, we train your staff on how to operate the machinery properly. Our maintenance agreements enable us to provide you with a practical, no-risk solution for long-term reliable use. If your production parameters change, we can help you search for a suitable solution.





Keep the Flow



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