



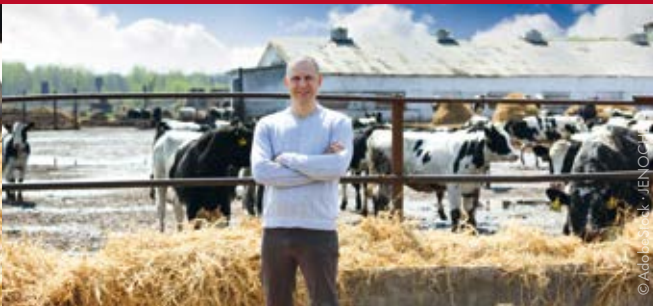
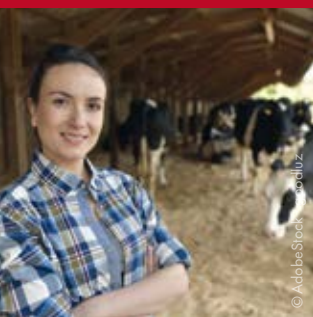
BIO

BIOGAS TECHNOLOGY



SOLIDS DISPENSERS

MADE
FOR ME



THE STORY

MADE FOR ME

[DANIEL'S CHALLENGE]

Sustainability is important to us in our daily work. That is why we want to integrate an economical and ecological solution in our 8-year-old biogas plant, as an alternative to the old solids dispenser. We also want more flexibility in the substrate input so that we can also use difficult materials such as dried chicken manure.

[OUR SOLUTION]

For reliable processes and a secure future – BvL V-BIO solids dispensers. The simple and robust design makes them ideal for daily use. Variants are available with one to three mixing augers. In addition, the V-BIO Combi offers a highly efficient combination of dispenser and push-off system. Our technology can easily handle the input of difficult materials such as solid manure.

Different discharge variants include the right option for every farm.

THIS SOLUTION IS MADE FOR DANIEL!



We made Daniel's challenge our own.

That is what motivates us at BvL: We work closely with farmers around the world to further develop our modular biogas technology and adapt it to individual requirements. In a process of personal exchange, we define dispensing solutions for the exact requirements, such as the system type and size, and the substrate input – solutions that are sustainable and future-proof.

FOR FARMERS LIKE DANIEL. FOR FARMERS LIKE YOU.

We will find the best solution for you, too.

The basis for your solution is our flexible V-BIO series with solids dispensers and hybrid solutions consisting of a dispenser and push-off unit – all time-proven and optimized for changing requirements. Individualization is at the heart of your solution: We work with you to analyze your requirements and configure a dispenser that does what you need. Our goal is to make your work easier and more efficient – with an individual solution about which you know:

BvL MADE THAT FOR ME.

Discover
MORE STORIES
from farmers like you!



OUR DAILY GOAL – THE BEST WAY TO SUPPORT YOUR WORK

You work every day to provide the best food.

Monday, Tuesday, Wednesday, in all weather, Thursday, Friday, in summer and winter, Saturday, Sunday, early and late – every day you give your best for the best food and healthy animals. You need a partner who works the way you do, thinks the way you do, feels the way you do. You need a partner like BvL.

We work every day for you!

We are an owner-operated family company that has been working for and with agriculture all around the world since 1860. In more than 160 years, generations of people with brains have been doing pioneering work for the industry, making BvL a leading partner for modern feeding and bedding technology.

We know the challenges and developments of the industry – and always think ahead to make animal husbandry and agriculture simpler, more efficient and safer. That farmers put so much confidence in our solutions is why we feel the responsibility and motivation to give our best, every day.

**[MADE IN
GERMANY]**

since
[1860]

Made in Germany

At our home location in Emsbüren in the Emsland region, we develop and produce solutions with a high vertical range of manufacture and our own experienced staff. Individual, modular configuration is an integral part of our concept – for high-performance and custom-tailored high technology for your day-to-day operations.

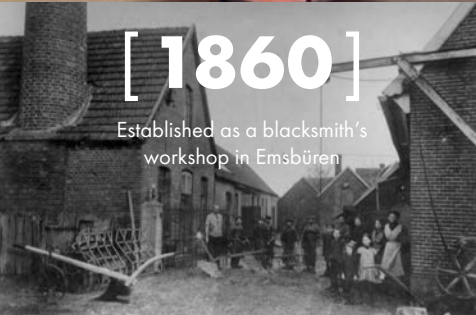
Our goal: Safe farming for humans and animals.

Made for the future

We practice sustainability at all levels: Our actions are economically and ecologically logical – with long-lasting and energy-efficient machines that save resources. Our way of thinking is networked, and we use intelligent, digital management systems that are designed with safety in mind.

Our goal: Sustainable handling of resources and the environment.

**WE ARE BvL.
INNOVATIVE. EXPERIENCED. STRONG.**



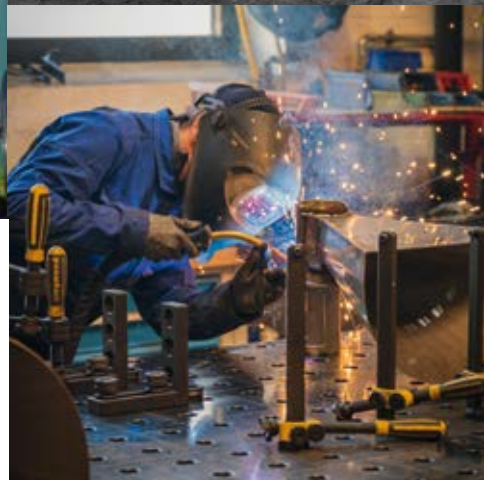
[1860]

Established as a blacksmith's workshop in Emsbüren



[1978]

Production of the first vertical mixer



[V-BIO SOLIDS DISPENSER]

RELIABLE PROCESSES –
EQUIPPED FOR THE FUTURE



Efficient and reliable

A completely efficient, effective and reliable dispensing process is the basis for an optimal gas yield. This requires a dispensing system that is exactly tailored to the biogas plant.

Robust no matter what size

Every size variant of our vertical solids dispensers, whether it has one, two, or three mixing augers, is guaranteed to feature a robust, simple and low-maintenance construction.

[12]

Basic types

[19]

Variants

[228]

Combinations

For diverse materials

The V-BIO dispensing system can handle diverse input materials – short or long, wet or dry. The V-BIO Combi, a hybrid dispensing and push-off system, can also be used to input large units of difficult substrates. And we offer a suitable interface for every type of input system in the plant.

V-BIO AT A GLANCE



V-BIO 8 BIS 12 - 1S

1-AUGER SOLIDS DISPENSER



V-BIO 14 BIS 18 - 1S

1-AUGER SOLIDS DISPENSER



V-BIO 25 BIS 35 - 2S

2-AUGER SOLIDS DISPENSER



V-BIO 45 BIS 80 - 3S

3-AUGER SOLIDS DISPENSER



V-BIO COMBI 40 BIS 90

SOLIDS DISPENSER WITH ONE
PUSH-OFF CONTAINER



V-BIO COMBI 80 BIS 130

SOLIDS DISPENSER WITH TWO
PUSH-OFF CONTAINERS

[THE RIGHT ACCESSORIES]

FEATURES OF THE V-BIO AND V-BIO COMBI



WEIGHING COMPUTER



HYDRAULIC LID

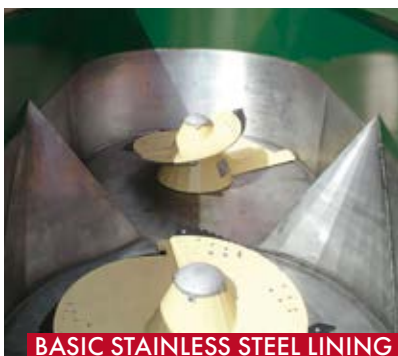


OVERTHROW GUARD

A welded straw ring made of pipe with 4 mm walls provides for extreme stability of the container and prevents the input material from overflowing.



V-BIO CONTAINER LININGS



BASIC STAINLESS STEEL LINING



FULL STAINLESS STEEL LINING



BOLT-ON BOTTOM

V-BIO 8 TO 12 - 1S

1-AUGER SOLIDS DISPENSER



Solids dispenser with one dosing auger

Compact and robust design – The simple and sturdy design of V-BIO solids dispensers makes them a reliable element of the biogas plant and minimizes maintenance and operating

expenses. The variants with one mixing auger and with a capacity of 8 to 12m³ are the smallest in the series.

YOUR DATA



Maximum height:

[]

t/day dispensed:

[]

kg/m³:

[]

Substrate share in %:

Corn: [] Grass: []

Manure: [] Other: []

SELECT YOUR APPROPRIATE DISCHARGE OPENING



THE POSSIBLE CHOICES



	Capacity	Total width	Total height	Total length	Max. payload	Recom- mended gear motor*
	m ³	m	m	m	kg	kW
<input type="checkbox"/> 8-1S	8	2.15	2.42	3.50	4000	1 x 22
<input type="checkbox"/> 10-1S	10	2.15	2.83	3.80	5000	1 x 22
<input type="checkbox"/> 12-1S	12	2.15	3.13	3.80	6000	1 x 22

The specified technical data refer to the standard features.

* with EnergySave auger



More information:

V-BIO 14 TO 18 –1S

1-AUGER SOLIDS DISPENSER



Solids dispenser with one dosing auger

Safe and reliable material input – In continuous daily use, V-BIO solids dispensers are reliable elements of your bio-gas plant. The vertical dispensing system can easily handle diverse input materials. The dispenser variants with a capacity

of 14 to 18 m³ are likewise equipped with one mixing auger. In addition to the side pushers, they are also designed for bottom discharge.

YOUR DATA



Maximum height:

[]

t/day dispensed:

[]

kg/m³:

[]

Substrate share in %:

Corn: [] Grass: []

Manure: [] Other: []

SELECT YOUR APPROPRIATE DISCHARGE OPENING



THE POSSIBLE CHOICES



	Capacity	Total width	Total height	Total length	Max. payload	Recom- mended gear motor*
	m ³	m	m	m	kg	kW
<input type="checkbox"/> 14-1S	14	2.45	2.70	4.20	7000	1 x 22
<input type="checkbox"/> 16-1S	16	2.45	3.00	4.20	8000	1 x 22
<input type="checkbox"/> 18-1S	18	2.45	3.30	4.20	9000	1 x 30

The specified technical data refer to the standard features.

* with EnergySave auger



More information:

V-BIO 25 TO 35 - 2S
2-AUGER SOLIDS DISPENSER



Vertical solids dispenser with two augers

Versatile input mix – With a capacity of about 25 to 35 m³ the dual-auger dispensers of the V-BIO series are suitable for numerous types of plants. The versatile vertical dispensing system allows the input of diverse substrates – short or long, wet or dry – depending on current and future requirements.

YOUR DATA



Maximum height: [] t/day dispensed: [] kg/m³: [] Substrate share in %:

Corn: [] Grass: []
Manure: [] Other: []

SELECT YOUR APPROPRIATE DISCHARGE OPENING



THE POSSIBLE CHOICES



	Capacity	Total width	Total height	Total length	Max. payload	Recom- mended gear motor*
	m ³	m	m	m	kg	kW
<input type="checkbox"/> 25-2S	25	2.45	2.70	6.60	12500	2x 22
<input type="checkbox"/> 30-2S	30	2.45	3.00	6.60	16000	2 x 22
<input type="checkbox"/> 35-2S	35	2.45	3.30	6.60	17500	2 x 22

The specified technical data refer to the standard features.

* with EnergySave auger



More information:

V-BIO 45 TO 80 - 3S

3-AUGER SOLIDS DISPENSER



Large-volume solids dispensers with three dispensing augers

Large and compact – The V-BIO 3S solids dispensers feature three mixing augers and are designed for large volumes. Just like its little brothers, the 3S has all drive components

outside the mixing chamber – so there is no contact with aggressive substrates.

YOUR DATA

Maximum height:

[]

t/day dispensed:

[]

kg/m³:

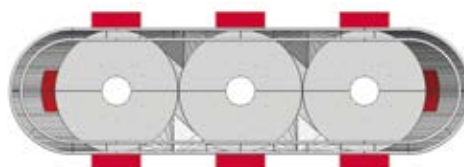
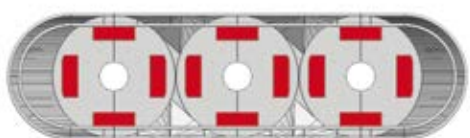
[]

Substrate share in %:

Corn: [] Grass: []

Manure: [] Other: []

SELECT YOUR APPROPRIATE DISCHARGE OPENING



THE POSSIBLE CHOICES

	Capacity	Total width	Total height	Total length	Max. payload	Recommended gear motor*
	m³	m	m	m	kg	kW
<input type="checkbox"/> 45-3S	45	2.45	3.00	9.00	22500	3 x 22
<input type="checkbox"/> 50-3S	50	2.45	3.30	9.00	25000	3 x 22
<input type="checkbox"/> 60-3S	60	3.00	3.50	9.00	30000	3 x 30
<input type="checkbox"/> 80-3S	80	3.00	4.30	9.00	40000	3 x 37

The specified technical data refer to the standard features.

* with EnergySave auger



More information:

V-BIO COMBI 40 TO 90

SOLIDS DISPENSER WITH ONE PUSH-OFF CONTAINER



Solids dispenser with one push-off container

Large volume – plus push-off system – With a push-off container and solids dispenser in one, the V-BIO Combi can truly achieve wonders. It is designed for the input of large quantities of stored material.

Extras such as the stainless steel lining and the heavy-duty oil bearing planetary gearbox contribute to a long life and low-maintenance operation. Power consumption is minimized by the 22 kW mixer motor and the 3 kW feeder motor.

YOUR DATA



Maximum height:

t/day dispensed:

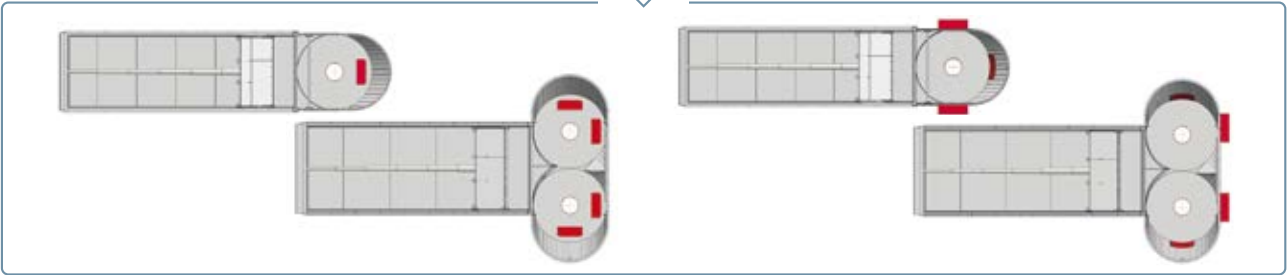
kg/m³:

Substrate share in %:

Corn: Grass:

Manure: Other:

SELECT YOUR APPROPRIATE DISCHARGE OPENING



THE POSSIBLE CHOICES



	Capacity	Total width	Total height	Total length	Max. payload	Recommended gear motor*
	m³	m	m	m	kg	kW
<input type="checkbox"/> 40-1S 1D	37	2.50	3.50	9.00	20000	1 x 22 + 1 x 3
<input type="checkbox"/> 60-1S 1D	55	2.50	3.50	11.00	30000	1 x 22 + 1 x 3
<input type="checkbox"/> 90-2S 1D	90	6.47	3.80	9.28	45000	2 x 22 + 1 x 3

The specified technical data refer to the standard features.

* with EnergySave auger
+ hydraulics



More information:

V-BIO COMBI 80 TO 130

SOLIDS DISPENSER WITH TWO PUSH-OFF CONTAINERS



Solids dispenser with two push-off containers

Two push-off containers for even more volume –
A strong combination with push-off technology for every situation: A hydraulic unit in the two push-off containers of our V-BIO Combi 2D feeds the substrate to the connected

dispenser. This double combination can achieve large supply volumes of up to 150 m³. You can also safely input large units of difficult substrates, with minimal power consumption.

YOUR DATA



Maximum height:

[]

t/day dispensed:

[]

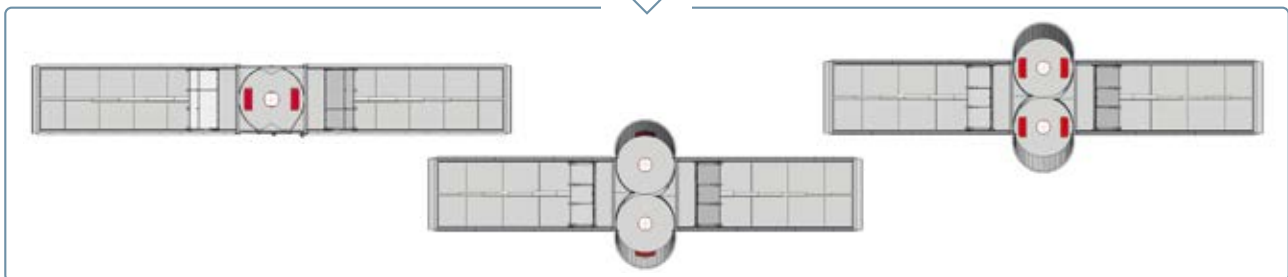
kg/m³:

[]

Substrate share in %:

Corn: [] Grass: []
Manure: [] Other: []

SELECT YOUR APPROPRIATE DISCHARGE OPENING



THE POSSIBLE CHOICES



	Capacity	Total width	Total height	Total length	Max. payload	Recommended gear motor*
	m ³	m	m	m	kg	kW
<input type="checkbox"/> 80-1S 2D	80	2.50	3.10	17.60	40000	1 x 22 + 2 x 3
<input type="checkbox"/> 100-1S 2D	100	2.50	3.50	17.60	50000	1 x 22 + 2 x 3
<input type="checkbox"/> 150-2S 2D	150	6.47	3.80	17.85	75000	2 x 30 + 2 x 3

The specified technical data refer to the standard features.

* with EnergySave auger
+ hydraulics



More information:

[V-BIO VARIANTS]

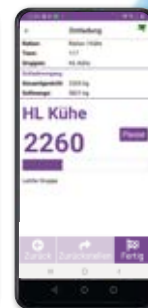
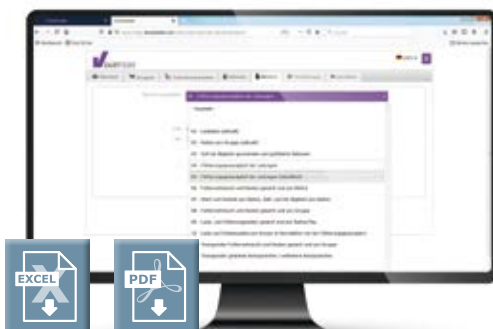
INDIVIDUAL INPUT SOLUTIONS



[V-CONNECT DAIRY FEEDER]

WELL-PLANNED FEED MANAGEMENT

The V-CONNECT Dairy Feeder mobile feed management system is a user-friendly system that supports your daily feeding process. It can be combined with virtually any feed mixer wagon. Permanent and traceable storage of feed data in a database allows easy access anytime and anywhere.



More information:



[V-BIO COMBI VARIANTS]

EFFICIENT PUSH-OFF TECHNOLOGY FOR EVERY FARM



V-BIO COMBI 60-1S 1D WITH FRONT DISCHARGE



V-BIO COMBI 60-1S 1D WITH SIDE DISCHARGE



V-BIO COMBI 80-1S 2D WITH BOTTOM-MOUNTED AUGER



V-BIO COMBI 100-1S 2D WITH BOTTOM-MOUNTED AUGER



V-BIO COMBI 90-2S 1D WITH BOTTOM-MOUNTED AUGER



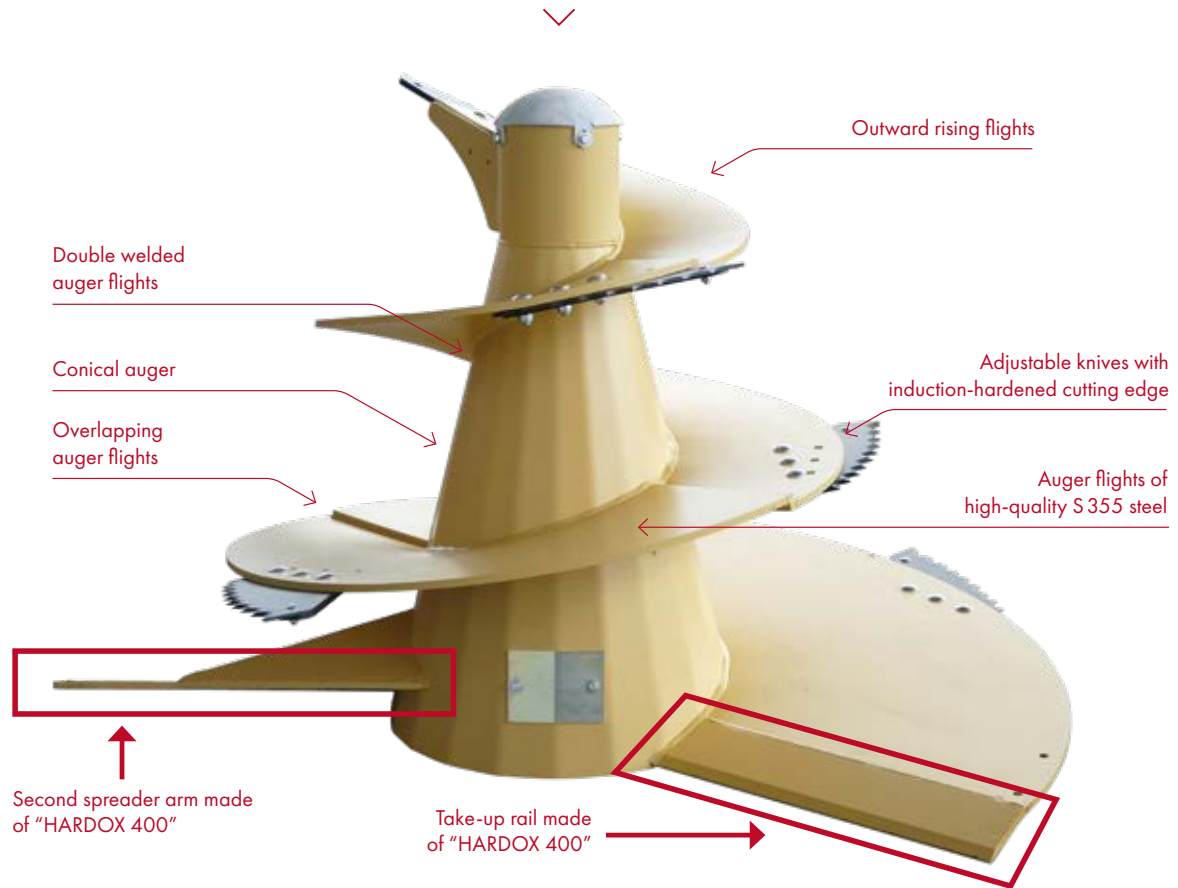
V-BIO COMBI 150-2S 2D WITH BOTTOM-MOUNTED AUGER



LOW CONSUMPTION – HIGH PERFORMANCE: THE PUSH-OFF UNITS OF THE V-BIO COMBI SERIES

[THE RIGHT MIXING AUGER]

SOLIDS DISPENSERS



High utilization of volume

The mixing auger is always optimally adapted to the container volume. This achieves optimal utilization of the volume with minimal effort. That saves not only time, but also money.

MADE FOR ME

Mixing made easy

We equip every dispenser with a suitable dispensing auger in the container that is optimized for the system.

For the right mixture

Optimized adaptation of the mixing augers to the container size and input material ensures a perfectly chopped and homogeneous mixture.



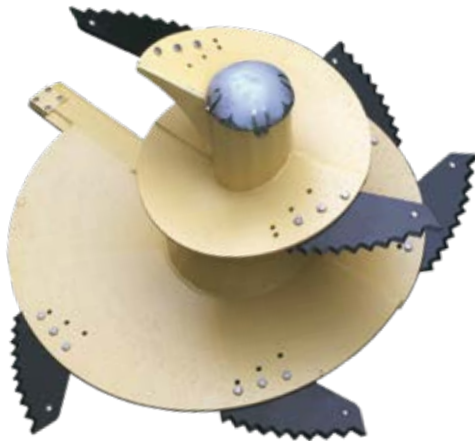
BEFORE



AFTER

[THE MIXING AUGER VARIANTS]

FLEXIBLE FOR ALL MATERIALS



A SOLID MANURE AUGER PLUS



B ENERGYSAVE AUGER



C DUAL-BLADE AUGER

A SOLID MANURE AUGER PLUS Very robust, also for difficult input materials.

B ENERGYSAVE AUGER Low power consumption for virtually all components.

C DUAL-BLADE AUGER Simple design, especially for free-flowing materials.

[INFORMATION]

The blades on the solid manure auger plus and EnergySave auger can be adjusted as necessary.



[V-BIO INPUT SYSTEMS]

FEEDING OF MATERIAL TAILORED TO EVERY
INSTALLATION SITUATION



AUGER CONVEYOR FOR
FILLING A TALL FERMENTER



AUGER CONVEYOR FOR FILLING
AN UNDERGROUND FERMENTER



FRONT DISCHARGE TO AUGER TECHNOLOGY



HYDRAULIC FRONT DISCHARGE



UNDERSLUNG AUGER TO LIQUID FEEDING SYSTEM



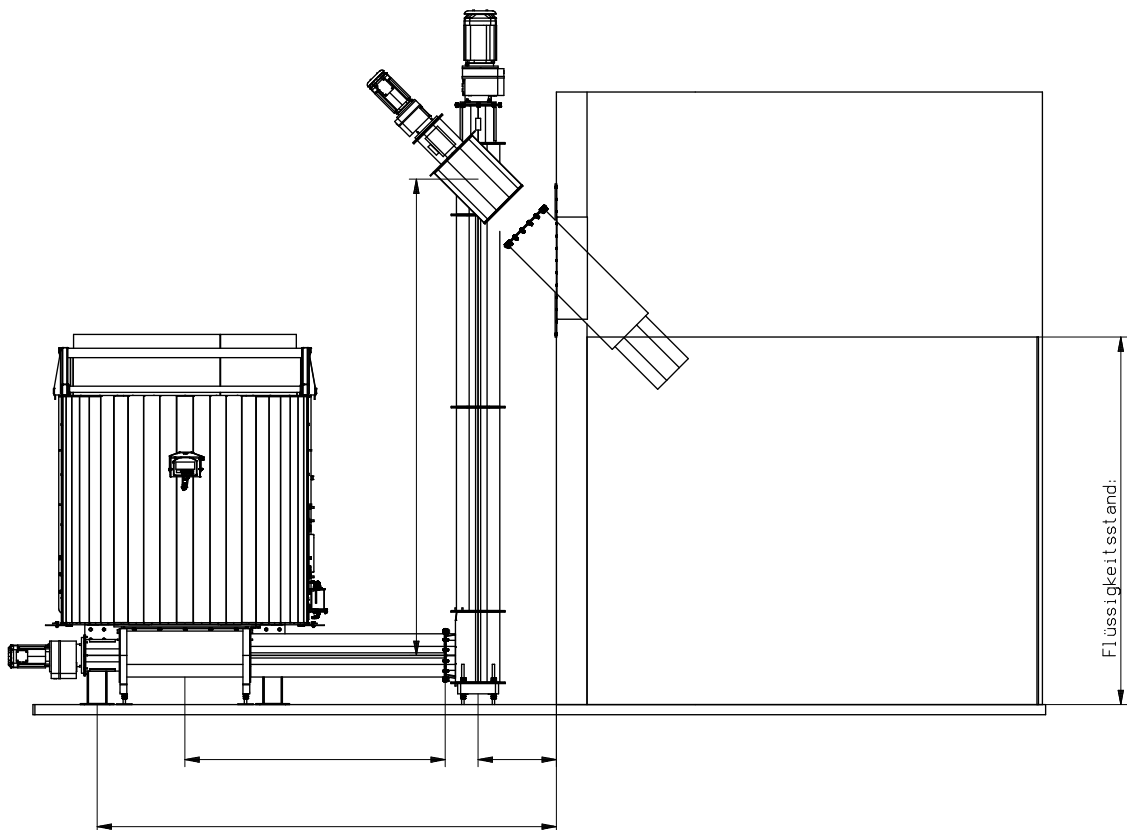
FRONT DISCHARGE TO LIQUID FEEDING SYSTEM

[INSTALLATION DRAWING]

PUTTING YOUR PROJECT ON PAPER



We will work together with you to implement your project.
This allows us to find a solution that you can say is
MADE FOR ME.



[DISPENSER REPLACEMENT]

INDIVIDUAL RENEWAL



If your solids dispenser system needs to be replaced or renewed, we will develop a solution tailored to your requirements.





Get to know the entire spectrum of BvL products:

Your BvL dealer



Bernard van Lengerich Maschinenfabrik GmbH & Co. KG

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LOAD
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COMFORT
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MIX
 FÜTTERUNGSTECHNIK



CONNECT
 SYSTEMTECHNIK