



Innovation. Experience. Strength.



Biogas equipment – feeding technology for biogas systems



Made especially for me.



WHAT IS THE MEANING OF “MADE ESPECIALLY FOR ME”?

Intelligent solutions

The secret behind BvL's long-standing recipe for success is providing farmers with customized solutions that fit their individual requirements to a T.

To BvL, matching the customer with the product that is right for them is front and center. The “Made especially for me!” concept is a clear reflection of stringent quality standards and a large variety of options.

Our sturdy solids dispensers are capable of handling and processing a wide range of input materials with utmost reliability. Our various systems can hold up to 150 m³ of material. An efficient, effective and reliable dispensing process is the basis for a perfect gas yield.



Since 1860

The name Bernard van Lengerich has embodied customized solutions since 1860. Deeply rooted in the Emsland region, the family business has found their recipe for success in relying on such vital ingredients as continuity and dependability and adding a healthy portion of scientific curiosity.

Moreover, face-to-face interaction and a sound communication culture also have a proud and long tradition at BvL.

Made in Germany

Boasting a rich tradition and now operating in its 5th generation, BvL has always produced in Germany and been focused on engineering custom product solutions. We work with an awareness of quality and value and bring to the table long years of experience as one of the world's leading feeding equipment manufacturers. Made in Germany is our most important seal of quality.

 **MADE IN GERMANY**



Vertical solids dispensers

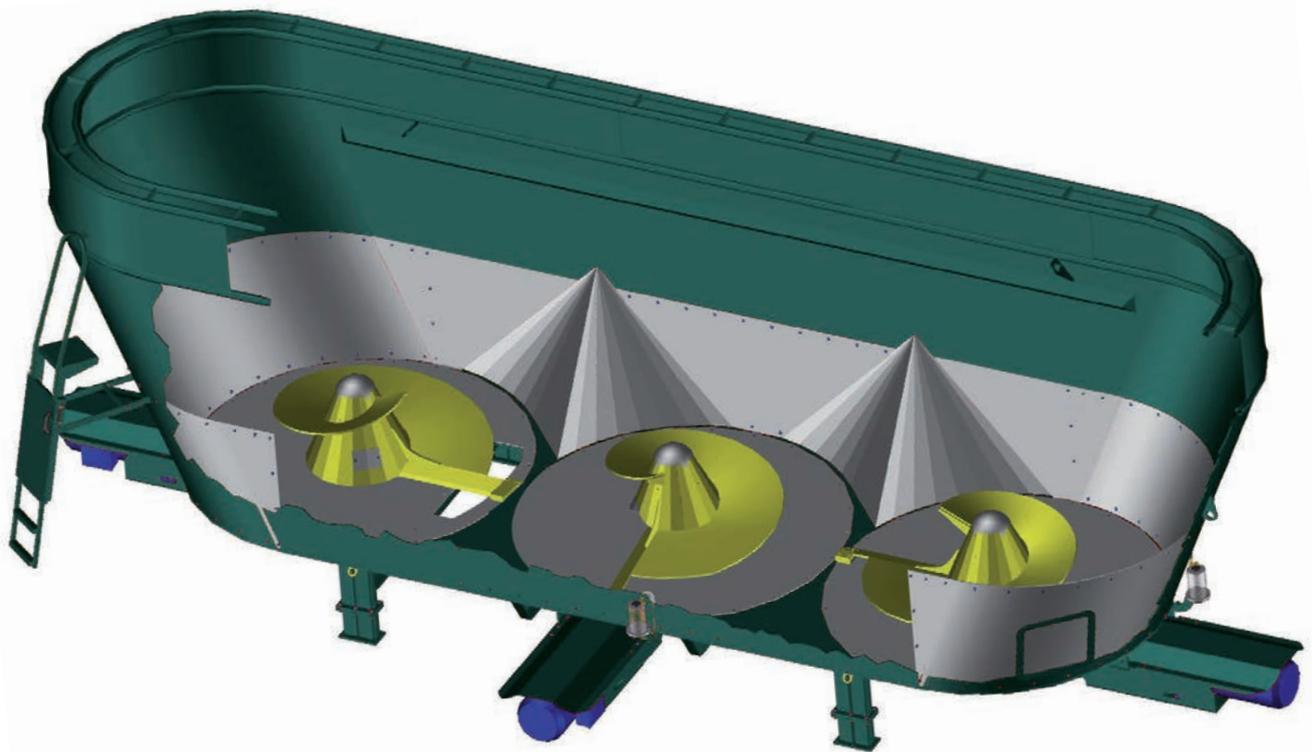
Reliable and future-proof



Thanks to their simple and robust construction, BvL vertical solids dispensers are ideally suited for permanent operation day in, day out. As all of them are located outside the mixing chambers, none of the drive assemblies come into contact with the – at times – corrosive substrates that will be introduced. The container is firmly welded in place and prevents any juices from seeping out. Its simple construction guarantees a high level of reliability and keeps maintenance and operating costs at a minimum. The vertical dispenser system is capable of handling a variety of different input materials – whether they be short or long or wet or dry – and is, therefore, guaranteed a long future. After all, can you be certain which materials you will need to dispense in a couple of years? We are glad to give you our advice and find the solution that is right for you!

Benefits at a glance

- One, two or three mixing augers
- maximum driving power from 11 kW to 37 kW per dosing auger
- Robust and simple construction
- Always the right dosing auger for any type of use



BvL lining options

To extend the service life of your vertical solids dispenser, we will be happy to line your vertical solids dispenser with sturdy plastic or our high-quality V2A stainless steel.



Feeding systems for BvL solids dispensers

Interfaces to all systems

This section holds a short overview of sample applications. BvL will advise you as to which interface solution fits your requirements best.



Augers for filling a tall fermenter



Augers for filling an underground fermenter



Auger train as a direct feed for filling a fermenter



Front discharge for filling a chopper



Underslung auger for filling a liquid feeding system



Front discharge for filling a liquid feeding system

The combination of dispenser and push-off system



In the push-off container, the substrate is fed into the coupled dispenser via a hydraulic device. The V-BIO Combi allows you to feed in large units of difficult substrates. The tank volume of the dispenser can be used completely. The V-BIO Combi is factory-equipped with a weighing system.



V-BIO Combi 1D (one-container solution)



V-BIO Combi 2D (two-container solution)

Equipment and scope of delivery

- Dispenser container made of quality steel, 8 mm container wall, 20 mm base plate
- Dispenser and container lining made of stainless steel (V2A; mat. no.: 1.4301)
- Dosing augers made of quality steel (also available in stainless steel)
- Heavy, oil bath planetary gearboxes with built-in auger bearing
- 22 kW/ 30 kW electric motor with integrated helical gear unit for dosing auger drive 3.0 kW hydraulic drive for each storage container
- Advance 420 Bio scale system with analog output
- Including electrical connection and output cable

Benefits

- Exceptionally large storage volume
- Low current consumption
- Different discharge systems

Different variants of the V-BIO Combi

Push-off equipment for any situation



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 underslung auger



V-BIO Combi 100-1S 2D with underslung auger



V-BIO Combi 90-2S 1D with underslung auger



V-BIO Combi 150-2S 1D with underslung auger

Reduced power requirement

The push-off systems included in the V-BIO Combi series will win you over with their low current consumption. The dosing of solids requires, respectively, one 22 kW engine and two 30 kW engines for the V-BIO Combi and the V-BIO Combi 2D. Each powered by a hydraulic unit with a driving power of merely 3 kW, the flange-mounted push-off containers feed the input material to the dispenser.



The centerpiece of your dispenser

Capitalize on your investment

We always equip your dispenser with a dosing auger that is perfectly matched with the hopper. The auger is the centerpiece of your dispenser. We are in a position to offer you different dosing augers that complement your specific input material, minimizing energy consumption and maximizing process reliability. All dosing augers are also available in acid-resistant V2A stainless steel (1.4301) to guarantee compatibility with extremely demanding conditions.



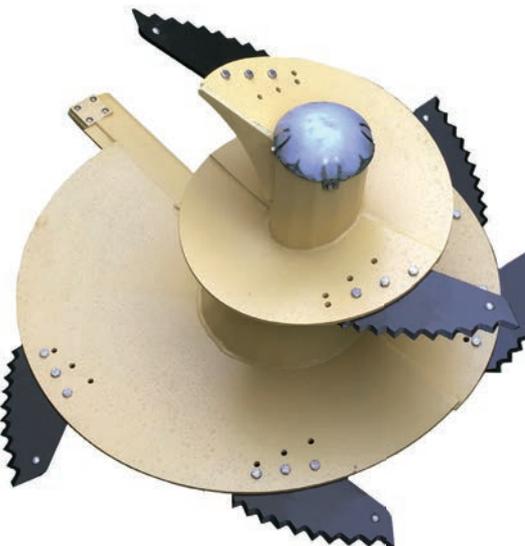
Solid mixing screw2
For particularly difficult
input materials



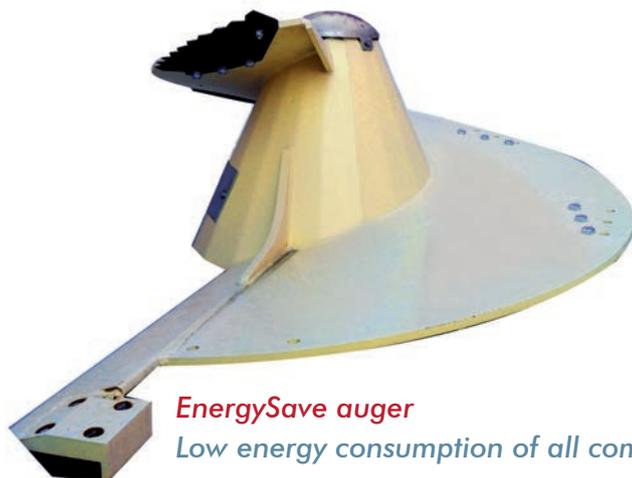
Double blade auger
For free-flowing materials



EnergySave2 auger
Energy savings and consistent discharge



Solid manure auger
For hard-to-process input materials



EnergySave auger
Low energy consumption of all components

The V-BIO and the V-BIO Combi offer Extensive accessories

The add-on options offered by BvL allow you to adapt your dispenser or push-off system even more accurately to your specific needs and the requirements of your biogas system.



Weighing computer including interface with the system control



Adjustable knives on the dosing auger



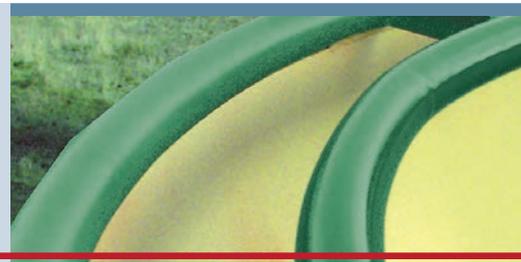
Hydraulic cover for solids dispenser



Overthrow guard for solids dispenser

Robust and sturdy:

One example of the sturdiness of the BvL solids dispenser is the welded-on heavy-duty anti-overflow ring – a standard feature on every dispenser! The double-tubular construction made of 4 mm thick walled tubing and 12 mm thick, welded-on carrier bars as the connection between the inner and outer rings assures an extremely solid construction of the hopper and prevents an overflow of the input material.





Replacement of the vertical solids dispenser

Reliable and future-proof

It will be our pleasure to give you advice as to when your old solids dispenser needs to be replaced. The following can only be achieved with good preparation:

- Short replacement time
- Cost-effective integration through re-use of existing components, e. g. the motors or the scale system
- Individual adaptation and fitting in of the feeding technology



Step 1: the old dispenser is removed



Step 2: if necessary, installation of the motors that have been taken over



Step 3: fitting the unit into the feeding technology that has been taken over



Step 4: the new dispenser is ready to start

Dispensing system from a single source

BvL will consult and plan the perfect feeding system with you. If this meets with your wishes and conditions on-site, we can also supply and install our auger feeding system, which is made of 100% high-quality stainless steel, in combination with our vertical solids dispenser.

To make the dispenser as unique as your overall system, it is, of course, also possible for us to connect the side discharge of our vertical solids dispensers to other feeding systems such as liquid feed pumps, horizontal conveying augers, etc.







Technical data

V-BIO	Length [mm]	Width [mm]	Height [mm]	Capacity [m ²] approx.	Max. payload [kg]	Dosing augers	Recomm. gear motor for EnergySave auger
8-1S	3500	2150	2420	8	4.000	1	1 x 15 kW
10-1S	3800	2150	2830	10	5.000	1	1 x 15 kW
12-1S	3800	2150	3130	12	6.000	1	1 x 22 kW
14-1S	4200	2450	2700	14	7.000	1	1 x 22 kW
16-1S	4200	2450	3000	16	8.000	1	1 x 22 kW
18-1S	4200	2450	3300	18	9.000	1	1 x 30 kW
25-2S	6600	2450	2700	25	12.500	2	2 x 22 kW
30-2S	6600	2450	3000	30	16.000	2	2 x 22 kW
35-2S	6600	2450	3300	35	17.500	2	2 x 22 kW
40-2S	6600	3000	3600	40	20.000	2	3 x 37 kW
38-3S	9000	2450	2700	38	19.000	3	3 x 22 kW
45-3S	9000	2450	3000	45	22.500	3	3 x 22 kW
50-3S	9000	2450	3300	50	25.000	3	3 x 22 kW
60-3S	9000	3000	3500	60	30.000	3	3 x 30 kW
80-3S	9000	3000	4300	80	40.000	3	3 x 37 kW
V-BIO Combi	Width [mm]	Width [mm]	Height [mm]	Capacity [m ²] approx.	Max. payload [kg]	Dosing augers	Recomm. gear motor for EnergySave augers + hydraulics
60-1S 1D	11000	2500	3500	55	30.000	1	1 x 22 kW + 1 x 3 kW
80-1S 2D	17600	2500	3100	80	40.000	1	1 x 22 kW + 2 x 3 kW
90-2S 1D	9280	6470	3800	90	45.000	2	2 x 30 kW + 1 x 3 kW
100-1S 2D	17600	2500	3500	100	50.000	1	1 x 22 kW + 2 x 3 kW
150-2S 2D	17850	6470	3800	150	75.000	2	2 x 30 kW + 2 x 3 kW



Feeding equipment Unloading technology Bedding technology Biogas equipment System technology



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Bernard van Lengerich Maschinenfabrik GmbH & Co. KG

Grenzstraße 16 · 48488 Emsbüren · Germany

Tel.: +49 5903 951-0

Fax: +49 5903 951-34

E-Mail: info@bvl-group.de

www.bvl-group.de



a member of



BvL dealers

