



Innovation. Experience. Strength.

**BIO**

**Biogas equipment – feeding technology for biogas systems**





## Get the most out of a personal meeting!

We deliver custom solutions for complete dispensing systems that are tailored to the processes you need to complete on your farm every day – from initial planning to the design stage to final assembly. Our manufacturing process produces a V-BIO system that lets you dispense any type of input material with perfect reliability.

**Bernard van Lengerich** has been a household name for customized solutions since 1860. We will provide you with the products you need to use your biogas system with the greatest efficiency possible. After all, we do not act in the customer's best interest if we sell him what we want to sell him. Instead, we need to sell him a system and equipment that offer him a level of reliability that is second to none. We work with an awareness of quality and value. Operating from the town of Emsbüren in the Emsland region, we manufacture exclusively in Germany and have turned Made in Germany into our most important seal of quality.

**Extensive experience and first-class, knowledgeable employees are your guarantee that BvL is the best choice you can make.**

However, we do not want to entirely relegate our leaflet from our business activity: in order for you to be sure that a meeting with us will be worthwhile, we illustrate what makes the biogas equipment made by BvL so unique on the following pages.

**MADE IN GERMANY** 



### Biogas equipment – feeding technology for biogas systems.

BvL always has the feeding equipment that fits your particular biogas system best. 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 100 m<sup>3</sup> of material. An efficient, effective and reliable dispensing process is the basis for a perfect gas yield.

## 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
- 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



Synthetic lining



Stainless steel lining



## 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



Front discharge to the underslung auger



Hydraulically operated front discharge



Underslung auger for liquid feeding



Front discharge for liquid feeding

# 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.



Single Combi



Twin Combi

## Equipment and scope of delivery

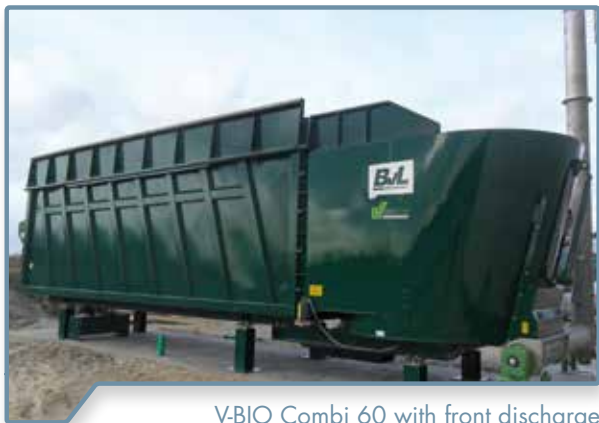
- Dispenser container made of quality steel, 8 mm container wall, 20 mm base plate
- Dispenser and container lining made of stainless steel
- EnergySave dosing augers made of quality steel
- Heavy, oil bath planetary gearboxes with built-in auger bearing
- 22 kW electric motor with integrated helical gear unit including input drive shaft. Materials up to 500 kg/m<sup>3</sup>
- Bio G420 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



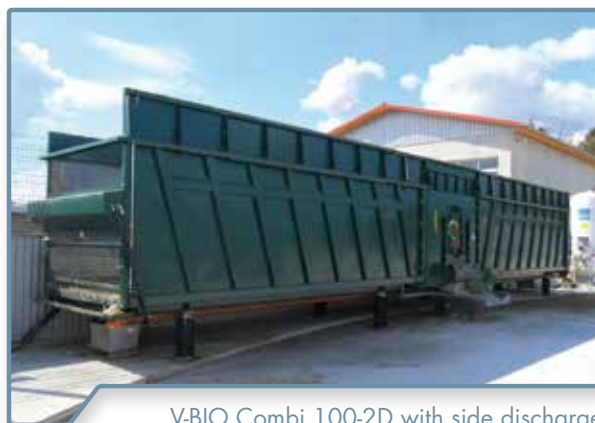
V-BIO Combi 60 with front discharge



V-BIO Combi 60 with side discharge



V-BIO Combi 80-2D with underslung auger



V-BIO Combi 100-2D with side discharge

### Reduced power requirement

The push-off systems included in the V-BIO Combi series will win you over with their low current consumption. A 22 kW motor is all the solids dispenser needs to produce superior dispensing results. The flange-mounted push-off system is powered by one or two built-in hydraulic units with a 3 kW motor.



# **Auger systems for the BvL solids dispensers**

Capitalize on your investment



**Stationary mixing auger plus**  
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 system



Knife



Cover



Overthrow guard

#### *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.





Achtung!  
Schwerlaufwerk  
Maschine.

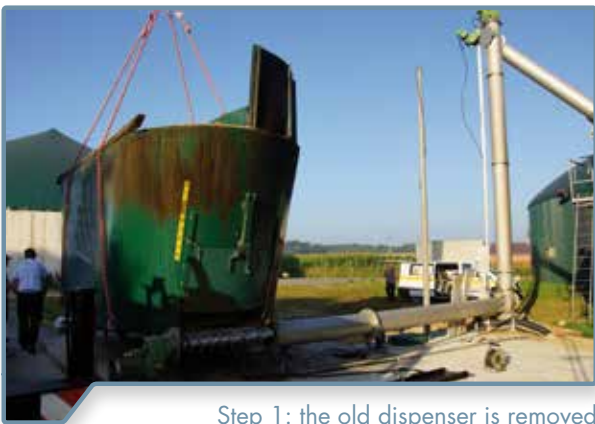
→  
←  
→  
←

## 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



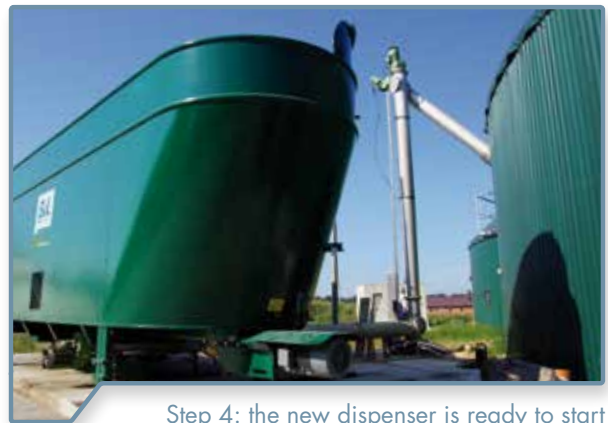
Step 1: the old dispenser is removed



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 <sup>2</sup> ] approx.	Max. payload [kg]	Dosing augers	Recomm. gear motor for EnergySave auger
8-1S	3500	2150	2420	8	4000	1	1x15 kW
10-1S	3800	2150	2830	10	5000	1	1x15 kW
12-1S	3800	2150	3130	12	6000	1	1x22 kW
14-1S	4200	2450	2700	14	7000	1	1x22 kW
16-1S	4200	2450	3000	16	8000	1	1x22 kW
18-1S	4200	2450	3300	18	9000	1	1x30 kW
25-2S	6600	2450	2700	25	12500	2	2x22 kW
30-2S	6600	2450	3000	30	16000	2	2x22 kW
35-2S	6600	2450	3000	35	17500	2	2x22 kW
38-3S	9000	2450	2700	38	19000	3	3x22 kW
45-3S	9000	2450	3000	45	22500	3	3x22 kW
50-3S	9000	2450	3300	50	25000	3	3x22 kW
60-3S	9000	3000	3600	60	30000	3	3x30 kW
80-3S	9000	2850	4300	80	40000	3	3x37 kW
V-BIO Combi	Width [mm]	Width [mm]	Height [mm]	Capacity [m <sup>2</sup> ] approx.	Max. payload [kg]	Dosing augers	Recomm. gear motor for EnergySave augers + hydraulics
60	11000	2500	3900	57	30000	1	1x22 kW + 1x3 kW
80-2D	15000	2500	3500	80	40000	1	1x22 kW + 2x3 kW
100-2D	15000	2500	3900	100	50000	1	1x22 kW + 2x3 kW



Feeding equipment   Unloading technology   Bedding technology   Biogas equipment   System technology



The best solution for your farm – for highest yield, a healthy environment, and optimal conditions for your cows: the name **Bernard van Lengerich** has stood for these goals since 1860. You get what you need from us to achieve these goals.

We work with an awareness of quality and value. Extensive experience and first-class, knowledgeable employees are your guarantee that **BvL** is the best choice you can make.



**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](mailto:info@bvl-group.de)

[www.bvl-group.de](http://www.bvl-group.de)

BvL dealers