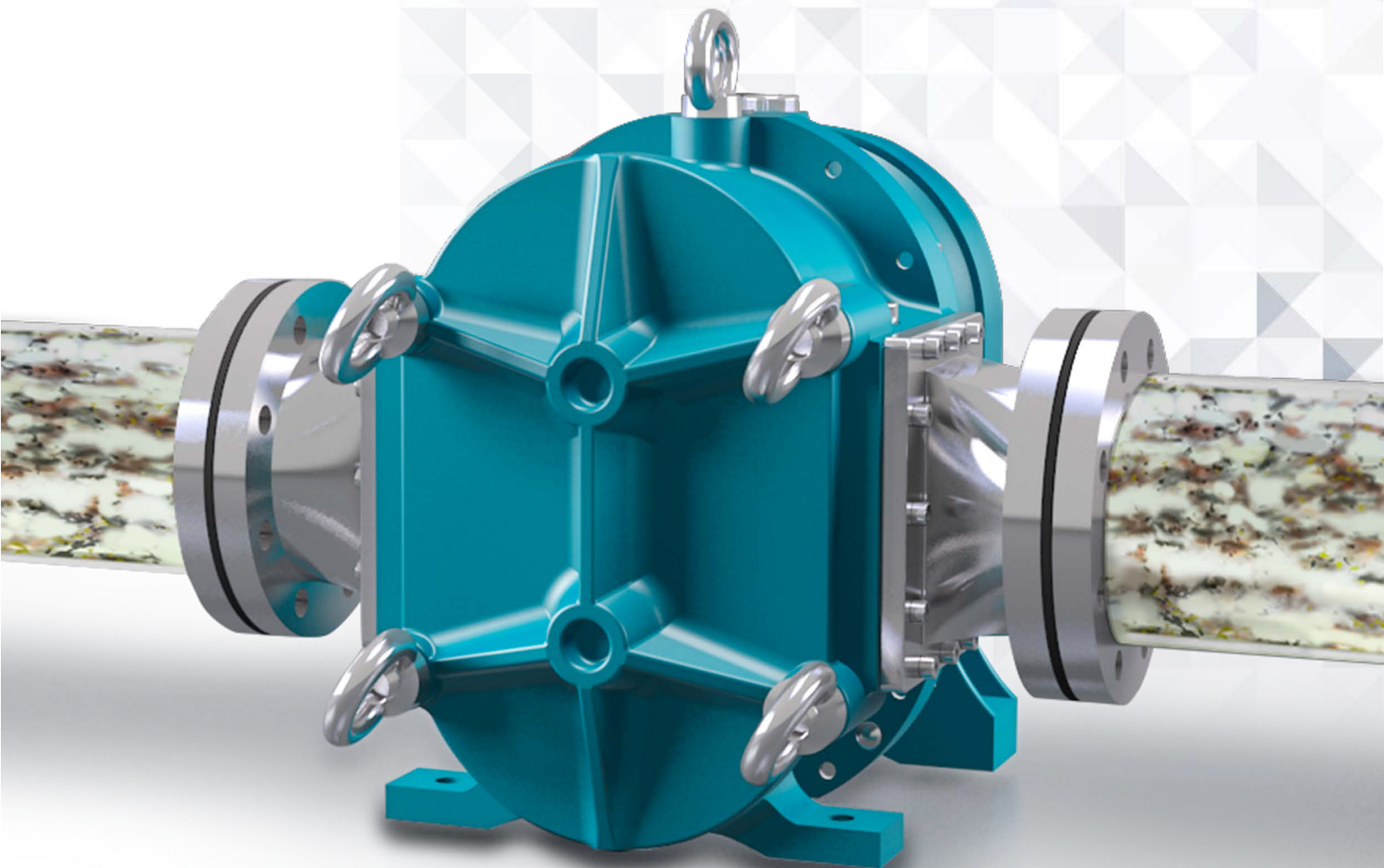


THE BLUELINE  
ROTARY LOBE PUMP

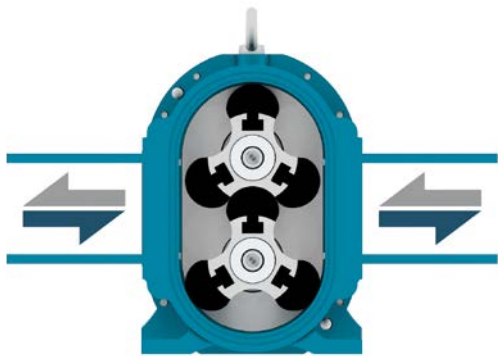
for agriculture and biogas plants



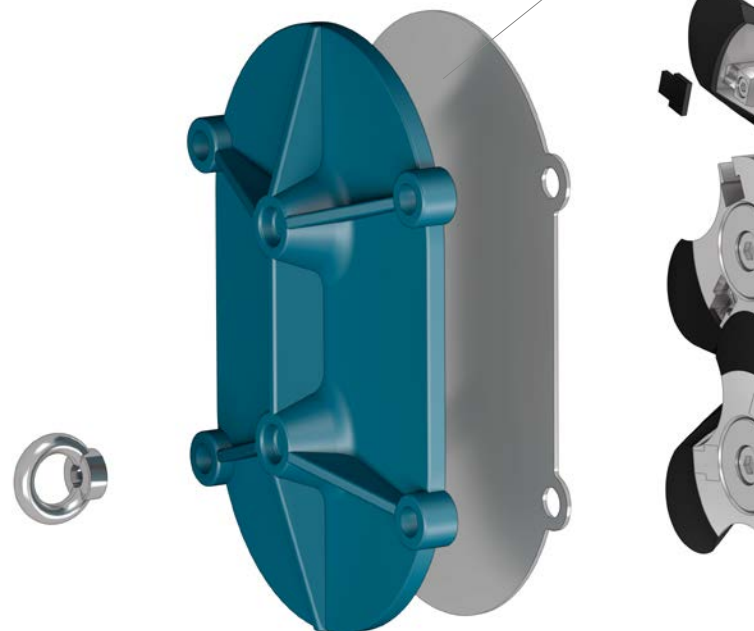
# THE ROTARY LOBE PUMP SOPHISTICATED QUALITY

*The BLUEline rotary lobe pumps were developed especially for use in agriculture where they have become indispensable. The pumps are powerful, robust and durable. Thanks to their low-on-space design, the pumps can also be used in mobile applications, e.g. on a three-point hitch frame, static mounted or mobile vat filling station.*

## OPERATING PRINCIPLE



Börger rotary lobe pumps are self-priming positive displacement pumps. The synchronized rotation of the two rotors creates a vacuum on the priming side of the pump. This vacuum draws the liquid into the pump chamber. With further rotation, the rotors convey the liquid into the pressure area. If the direction of rotation is changed, the flow is reversed.



## UNRIVALED LOW MAINTENANCE



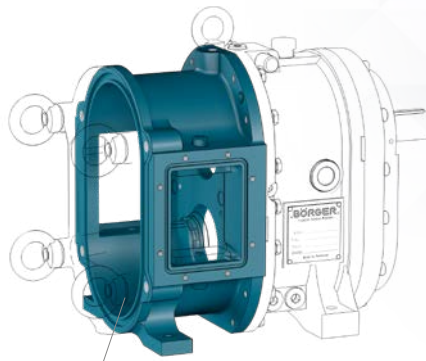
Our pumps are exceptionally easy to maintain. You can carry out the maintenance work yourself. Simply remove the quick-release cover to get access to all wear parts.

At Börger, we call this unique principle MIP® (Maintenance in Place), since you can carry out all maintenance work in a matter of minutes at the installation site of the pump without the need to remove the piping or the drive system.



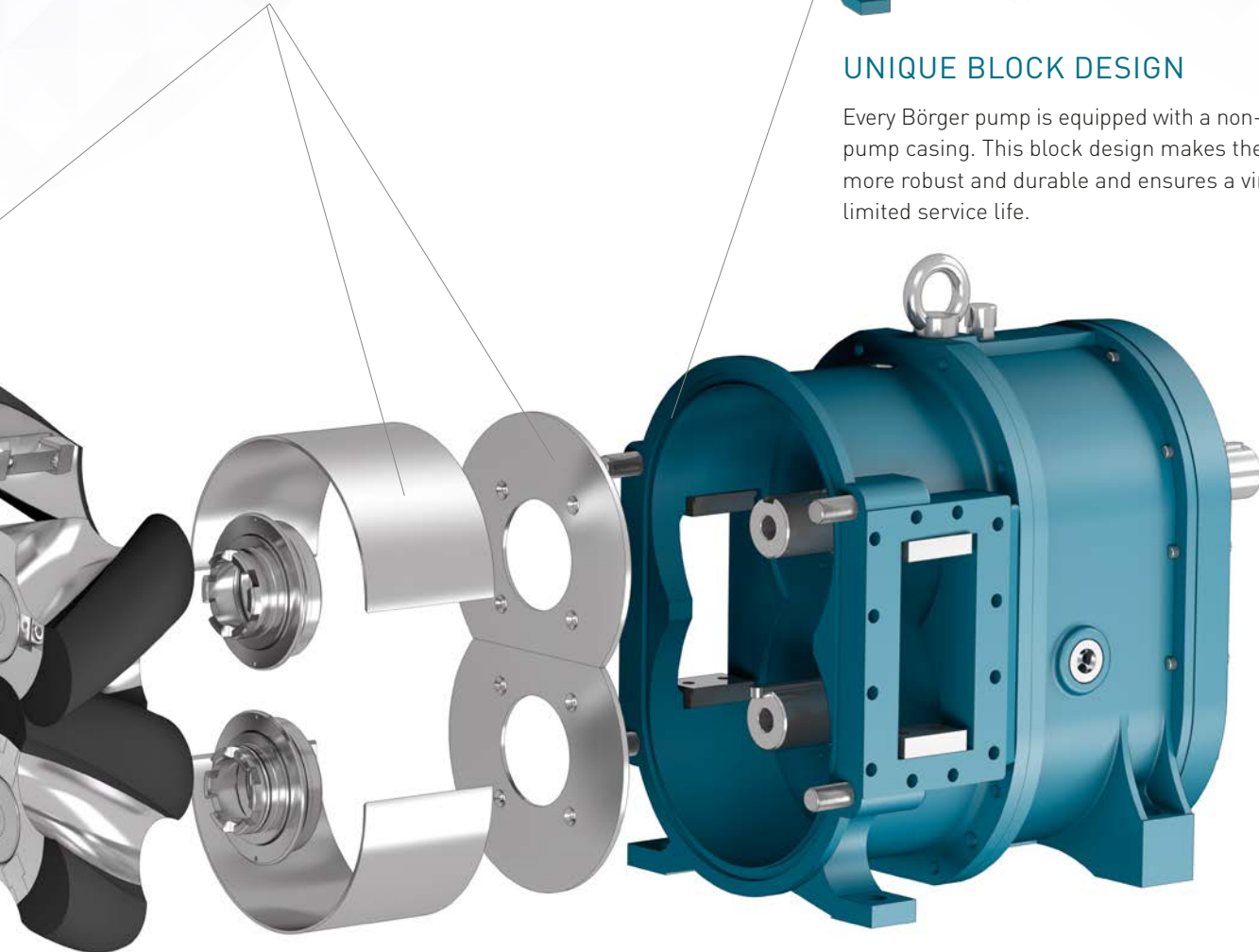
## UNIQUE CASING PROTECTION

Upon request, the inside of the pump casing is lined with a casing protection which protects the pump casing from wear caused by solids (e.g. sand or stones). In case of wear, the casing protection can easily be replaced.



## UNIQUE BLOCK DESIGN

Every Börger pump is equipped with a non-segmented pump casing. This block design makes the pumps more robust and durable and ensures a virtually unlimited service life.



## A SELECTION OF BÖRGER ROTORS

We take on any challenge. To this end, a range of different rotors were developed. The patented Unique rotors are indeed unique worldwide. Just the removable lobe tips have to be replaced in case of wear. This saves a lot of money and makes maintenance incredibly easy. Our Premium profile rotor was especially developed for biogas applications for conveying fibrous media. Thanks to its new screw-profile design it runs almost pulsation free and ensures a long service life.



## OIL-FILLED INTERMEDIATE CHAMBER

The oil in the large-volume intermediate chamber cools and lubricates the seals. The intermediate chamber protects the gear unit from pumped medium leaking in if the mechanical seal is defective. Escaping fluid flows into the intermediate chamber without pressure and can leak out through the overflow opening. Highest degree of operational safety for your plant.





## AT A GLANCE

- + 21 pump sizes with flow rates of 1 – 24,000 l/min
- + Self-priming, pumping in slurp operation
- + Highest degree of safety due to oil-filled quench chamber as standard
- + Ease of maintenance (MIP®)
- + Short-term dry-run capability
- + Resistant to solids

## THE IDEAL PUMP SIZE FOR YOUR PLANT

The BLUEline rotary lobe pump is available in 21 sizes. The most suitable pump size for your application is chosen from this large selection.

| BLUEline Pumpentyp | Free ball passage [mm] | Flow rate           |                     |                     |                     | Max. pressure [bar] |
|--------------------|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|                    |                        | bei 300 rpm [l/min] | bei 450 rpm [l/min] | bei 540 rpm [l/min] | bei 600 rpm [l/min] |                     |
| AN 040             | 30                     | 140                 | 210                 | 250                 | 280                 | 10.0                |
| AN 070             | 30                     | 220                 | 330                 | 390                 | 440                 | 8.0                 |
| PN 100             | 28                     | 300                 | 450                 | 540                 | 600                 | 12.0                |
| PN 160             | 42                     | 480                 | 720                 | 860                 | 960                 | 12.0                |
| QN 230             | 38                     | 690                 | 1,040               | 1,240               | 1,380               | 8.0                 |
| QN 300             | 48                     | 900                 | 1,350               | 1,620               | 1,800               | 8.0                 |
| PL 200             | 40                     | 540                 | 810                 | 970                 | 1,080               | 8.0                 |
| PL 300*            | 40                     | 810                 | 1,220               | 1,460               | 1,620               | 4.0                 |
| CL 390*            | 50                     | 1,170               | 1,760               | 2,110               | 2,340               | 8.0                 |
| CL 520*            | 50                     | 1,560               | 2,340               | 2,810               | 3,120               | 4.0                 |
| FL 518*            | 75                     | 1,710               | 2,570               | 3,080               | 3,420               | 12.0                |
| FL 776*            | 75                     | 2,580               | 3,870               | 4,640               | 5,160               | 8.0                 |
| FL 1036*           | 75                     | 3,420               | 5,130               | 6,160               | 6,840               | 4.0                 |
| EL 1000*           | 80                     | 3,090               | 4,640               | 5,560               | 6,180               | 10.0                |
| EL 1550*           | 80                     | 4,650               | 6,980               | 8,370               | 9,300               | 5.0                 |
| EL 2250*           | 80                     | 6,180               | 9,270               | 11,120              | 12,360              | 3.0                 |
| EL 3050*           | 80                     | 9,270               | 13,910              | 16,690              | 18,540              | 2.0                 |
| XL 1760            | 95                     | 5,280               | 7,920               | 9,500               | 10,560              | 10.0                |
| XL 2650            | 95                     | 7,950               | 11,930              | 14,310              | 15,900              | 6.0                 |
| XL 3530            | 95                     | 10,500              | 15,750              | max. 450 rpm        | max. 450 rpm        | 4.0                 |
| XL 5350            | 95                     | 15,990              | 23,990              | max. 450 rpm        | max. 450 rpm        | 2.0                 |

\* available for PTO drive

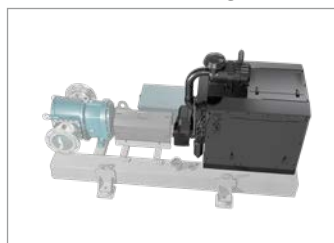
## DIFFERENT DRIVE OPTIONS

Different motors can be used for driving the BLUEline rotary lobe pump. Please find a small selection here.

Electric motor



Combustion engine



PTO



Hydraulic motor



# COMPACT. POWERFUL. RELIABLE.

## VERSATILE USE

### LARGE NUMBER OF VARIANTS

Thanks to their compact design and the large number of configuration options, Börger rotary lobe pumps are extremely versatile.

Whether on a three-point hitch frame for flexible use at a tractor, as a high-performance vat filling station, a stationary unit in your plant, a powerful tanker truck pump or as a submerged version, all these variants have one thing in common – you can rely on our pumps.

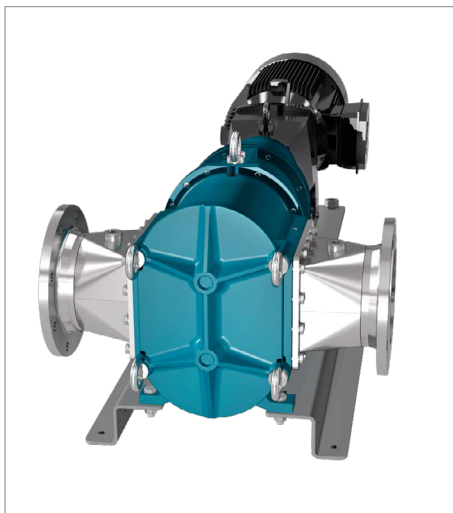
### ON A THREE-POINT HITCH FRAME



### VAT FILLING STATION



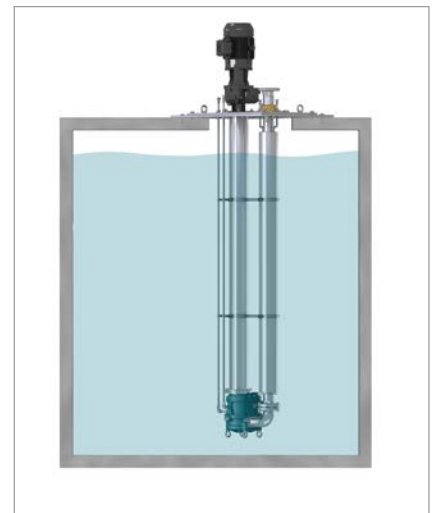
### STATIONARY



### TANKER TRUCK PUMP



### SUBMERGED PUMP



**lobe**

**Danmark**

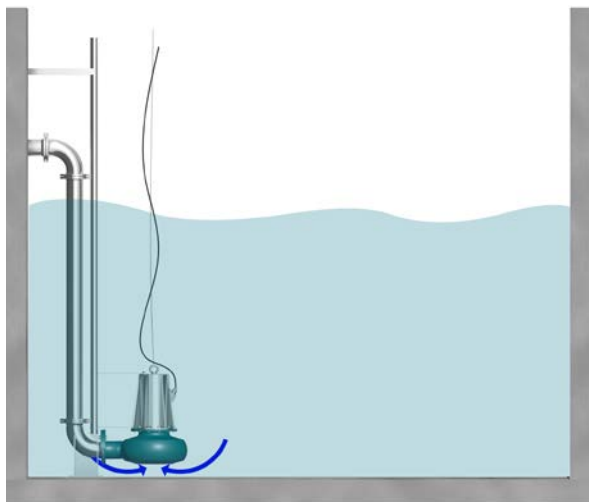
Lobe ApS  
Tlf. +45 7684 3484  
Mail: [sales@lobe.dk](mailto:sales@lobe.dk)  
[www.lobe.dk](http://www.lobe.dk)

**Norge**

Lobe AS  
Tlf. +47 6710 5000  
Mail: [sales@lobe.no](mailto:sales@lobe.no)  
[www.lobe.no](http://www.lobe.no)

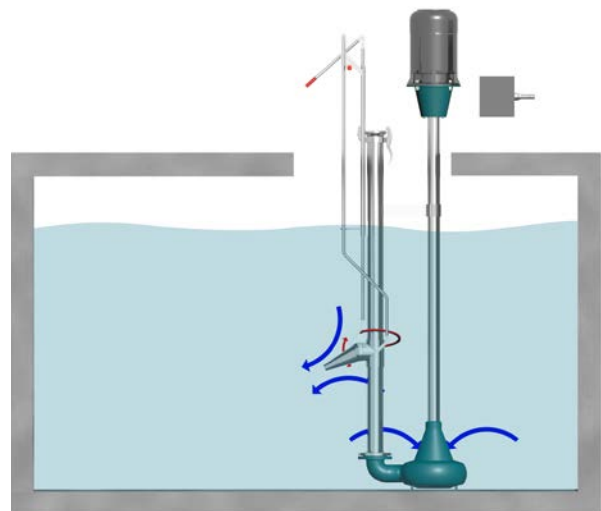
# FOR SIMPLE TRANSFER OPERATIONS EASY SOLUTION

## SUBMERSIBLE CENTRIFUGAL PUMP



You can use submersible centrifugal pumps for conveying aqueous media with low solids content. The submersible pump is lowered into the liquid and uses the feed from below. The pump is driven by a submersible motor.

## SUBMERSIBLE CHOPPER MIX PUMP



The cutting edges at the pump wheel macerate the fibers contained in the liquid during the pumping process. By moving a valve, the submersible chopper mix pump can be used for transfer operations or for circulation by means of an agitating nozzle.