

BÖRGER[®]
Innovation

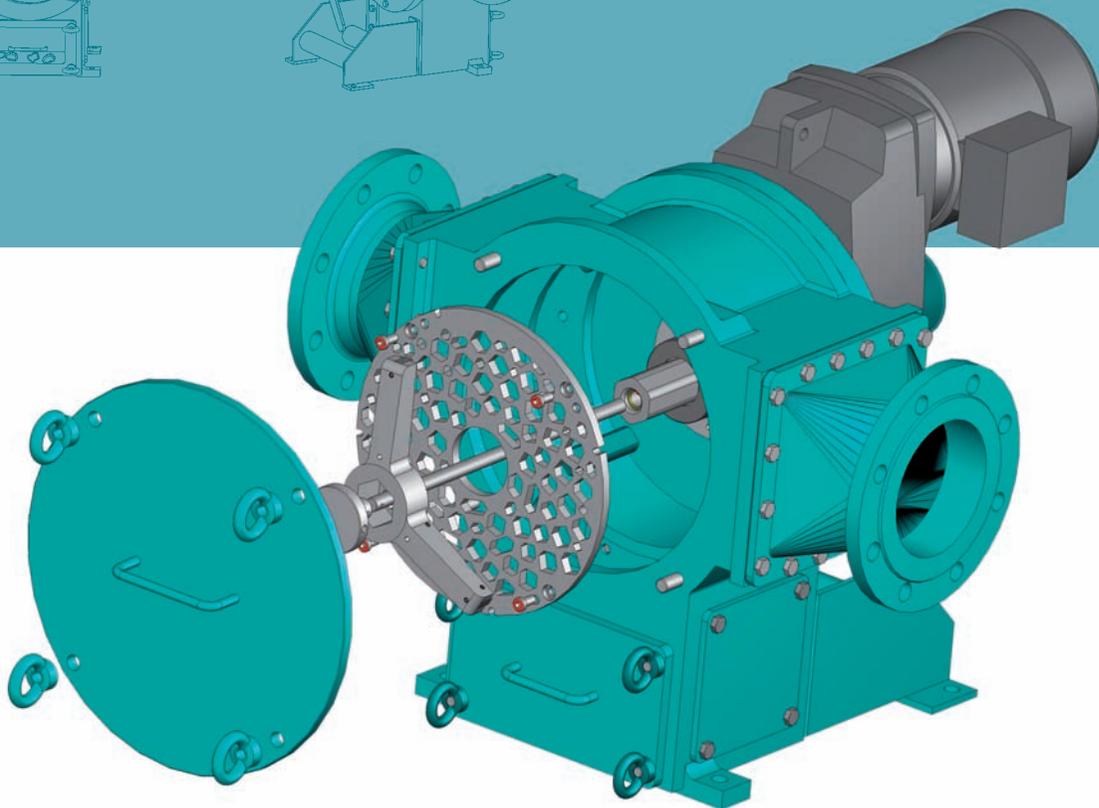
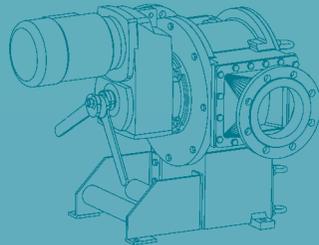
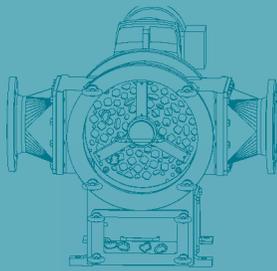
Simplicity

is simply better



Multichopper

Construction, Drive and Assembly



The Börger Multichopper incorporates advantageous technical and operational design features. Knife tension to the cutter plate is adjustable from outside of the unit. A central shaft clamp construction maintains the axially fixed knife head alignment and tension to the reversible cutter plate.

The shaft seal is furnished with the proven Börger mechanical seal with quench and control. The Multichopper incorporates Börger's well known maintenance friendly design. All rotating parts can be accessed, maintained or replaced via the removable front access cover, fitted with an eyebolt clamped construction. With no requirement for special tools.

Börger Multichopper MIP-Design allows the quick and convenient maintenance or replacement of all fluid wetted parts, without removal of pipes, drives or other components. By your own staff. Quick – Uncomplicated – Inexpensive

The Multichopper - designed for simple and effective operation.

Components of the Multichopper

Compact device

The Multichopper will be supplied with a mono-bloc casing in cast iron or stainless steel. The drive is frictionlocked in a close-coupled design. It is a compact and stable unit.

Shaft seal

Fitted with a robust mechanical seal as a standard. The buffer fluid in the quench cavity lubricates the seal faces and protects the drive unit.

The work tools

The Multichopper can be equipped with various, reversible shearplates, which are selected in accordance to the application. A three-arm knifeholder serves as the rotating blade.



Cutting unit adjustment

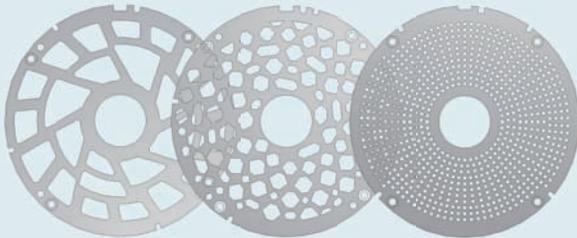
An external set nut allows for the adjustment of tensioning force of the knives to the shear plate without disassembly of the unit

Flow direction

The direction of flow can be determined onsite due to reversible flange connections.

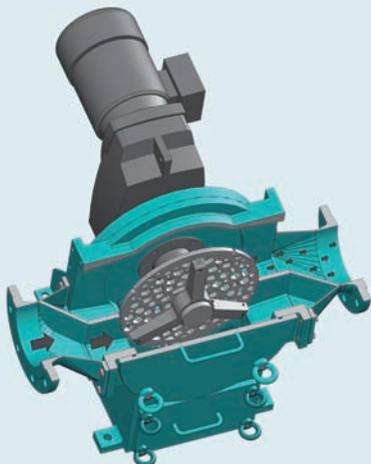
Integrated stone trap

Non-cuttable solids are discharged into the integrated stone trap due to the centrifugal and rotational force of the knife holder.



Börger has razor sharp solutions!

Single shaft chopper with central cutter plate and effective knife blades for solids reduction in liquid phases. The chopping result is mainly determined by the design of the cutter plate, the operating speed and the fluid velocity through the unit.



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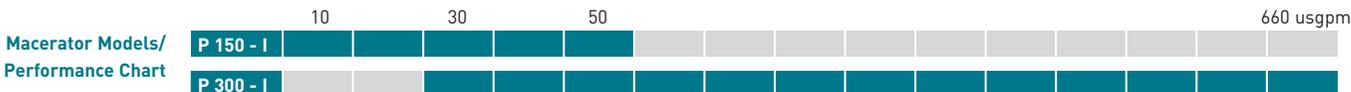
Börger Pumps beat all competition regarding short maintenance and down time – thanks to MIP.



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Spent vegetable oils and deep-frying fats are reconditioned in a Biodiesel Plant. The Multichopper reduces large solids to enable them to be separated easily in the downstream processes. The cleaned oils and fats are pumped to large Diesel-Engines driving generators for energy production. The Multichopper is handling a range of 400 usgpm with a maximum temperature of 140 °F.



In a Wastewater Treatment Plant the thickened sludge is pumped to a centrifuge. The sludge contains large quantities of solids, fibers and rags. To avoid blockages to the centrifuge and to protect the pumps, a Multichopper P300-I was installed in the suction line of the Börger pumps. Fibers, solids and rags in the sludge are chopped down and within the same operation the sludge is homogenized.



Food and garden waste are delivered to a biogas plant and are mixed with liquid. The Börger Multichopper and a Börger Multicrusher are installed to chop the solids and homogenize the product. Börger pumps transport the mass to an anaerobic digester. With the combination of the both Börger chopping machines the required solids size necessary for biogas plants are achieved.



In a municipal sewage treatment plant the wastewater is filtered by use of membrane technology. The membranes separate the sewage into permeate (filtered water) and sludge. The sludge is temporarily stored in large tanks. A sludge loading station equipped with a Börger Multichopper and a Rotary Lobe Pump will fill up tankers in minimal time for transfer to a dewatering station. The Multichopper protects the pump and the downstream dewatering equipment by reducing the solids size.