

A NEW  
LIFE  
FOR OLD  
FOOD.





About Biogreenline

# We close the natural and economic cycle of food.

Organic waste is unavoidable in our modern world. That also applies to packaging material that is associated with organic waste. Our mission is to make both usable again in an efficient manner. That's because every gram of this waste contains energy that we can return to the economic and natural cycle. Adding value to your company. And our environment.

# Fight food waste with a system.

The key to effective value creation lies in the most efficient separation of packaging and content. Over the last ten years we've worked closely with our customers and developed a ground-breaking, patented separation technique that sets new standards worldwide. How do you benefit: a minimum of synthetic residual materials combined with maximum sustainability and profitability.

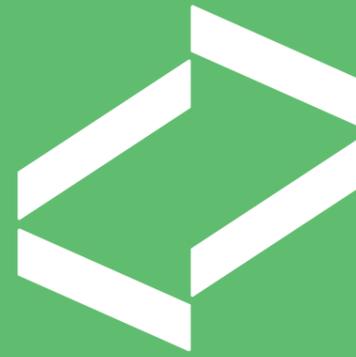
## HOW IT WORKS

- 1 Food waste of all kinds is separated mechanically into **organic** and synthetic materials.
- 2 **Organic waste is mechanically processed into organic substrate without residues from plastic and other environmentally hazardous substances.**
- 3 **Biogas power plants generate up to 850 kWh of clean energy per tonne of organic substrate.**
- 4 **The fermented substrate from the biogas system makes an excellent and plastic-free fertiliser for agriculture.**

Synthetic materials such as plastic are separated with minimal biomass residues.

Depending on the composition of the synthetic substances, they can be recycled.

What remains is also converted into energy in incinerators.



Efficient separation makes it possible for the majority of packaged organic waste to be reused. This is our contribution to a clean and sustainable world.

## SUSTAINABLE

90 % of the waste volume recycled

1,000 kg food waste  
= 900 kg biogas / biofertilizer / recycling  
= 100 kg packaging and residual materials

Packaging waste is reduced to a fraction of its previous volume. Biogas and bio-fertilizers generate new income. This results in significantly lower disposal costs.

## GOOD VALUE

75 % lower disposal costs  
CHF 120 per tonne of conventional waste disposal  
CHF 30 per tonne with disposal using the Biogreenline system

The cost savings mean our customers achieve an excellent return on investment, with a service life of more than 10 years.

## COST-EFFECTIVE

400 % ROI across entire life cycle  
2 – 3 years  
Ø Time until break even



Holistic solutions

# We don't just build machines. We build sustainable solutions.

Sustainable solutions mean more than just getting the right machine. That is why we can plan your Waste Management System together from the start – from the requirement analysis and planning through system integration all the way up launch and maintenance. That way, you will have full access to the expertise we have gathered along the way from over 70 implemented projects around the globe.

## CONSULTATION & PLANNING

- Requirement assessment
- Strategy
- Regional waste planning support
- Regulation
- Project planning
- Operating concept
- Financing
- Training
- Integration into biogas plants

## OVERALL SYSTEMS & SYSTEM INTEGRATION

- Project management
- Component procurement
- Engineering
- System integration

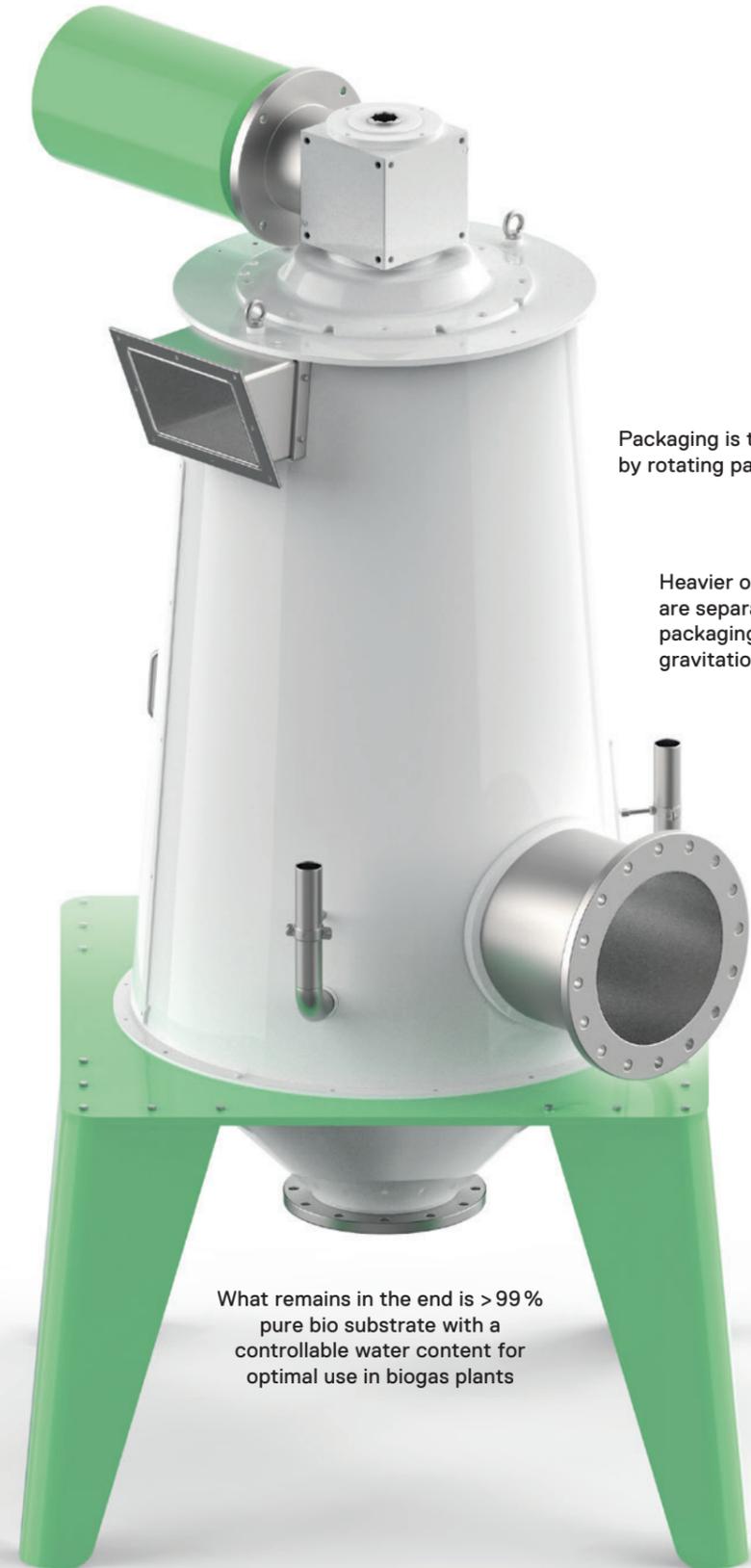
## SPARE PARTS & MAINTENANCE

- Original spare parts
- Spare parts management
- Installation
- Launch
- Repair and maintenance
- Remote support through diagnostics

# Our separator technology at a glance.

With their vertical construction the new VS series' separators are designed for separating large quantities of packaging and foodstuffs. They open and shred the packaging without generating any harmful microplastics. What remains as an end product is clean with a > 99% degree of purity. This enables an economical and sustainable return of raw materials to the natural cycle.

A powerful electric motor provides a throughput of up to 24 m<sup>3</sup> per hour



Packaging is torn up by rotating paddles

Heavier organic contents are separated from the lighter packaging by centrifugal and gravitational force

What remains in the end is >99% pure bio substrate with a controllable water content for optimal use in biogas plants

### VERTICAL SEPARATOR VS400

Output Up to 10 m<sup>3</sup> / h

Screen diameter 480 mm

Height 2,700 mm

Weight 1,500 kg

### VERTICAL SEPARATOR VS600

Output Up to 15 m<sup>3</sup> / h

Screen diameter 680 mm

Height 3,300 mm

Weight 1,850 kg

### VERTICAL SEPARATOR VS900

Output Up to 24 m<sup>3</sup> / h

Screen diameter 880 mm

Height 3,900 mm

Weight 3,000 kg

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Rotation speed 900 – 1,450 rpm

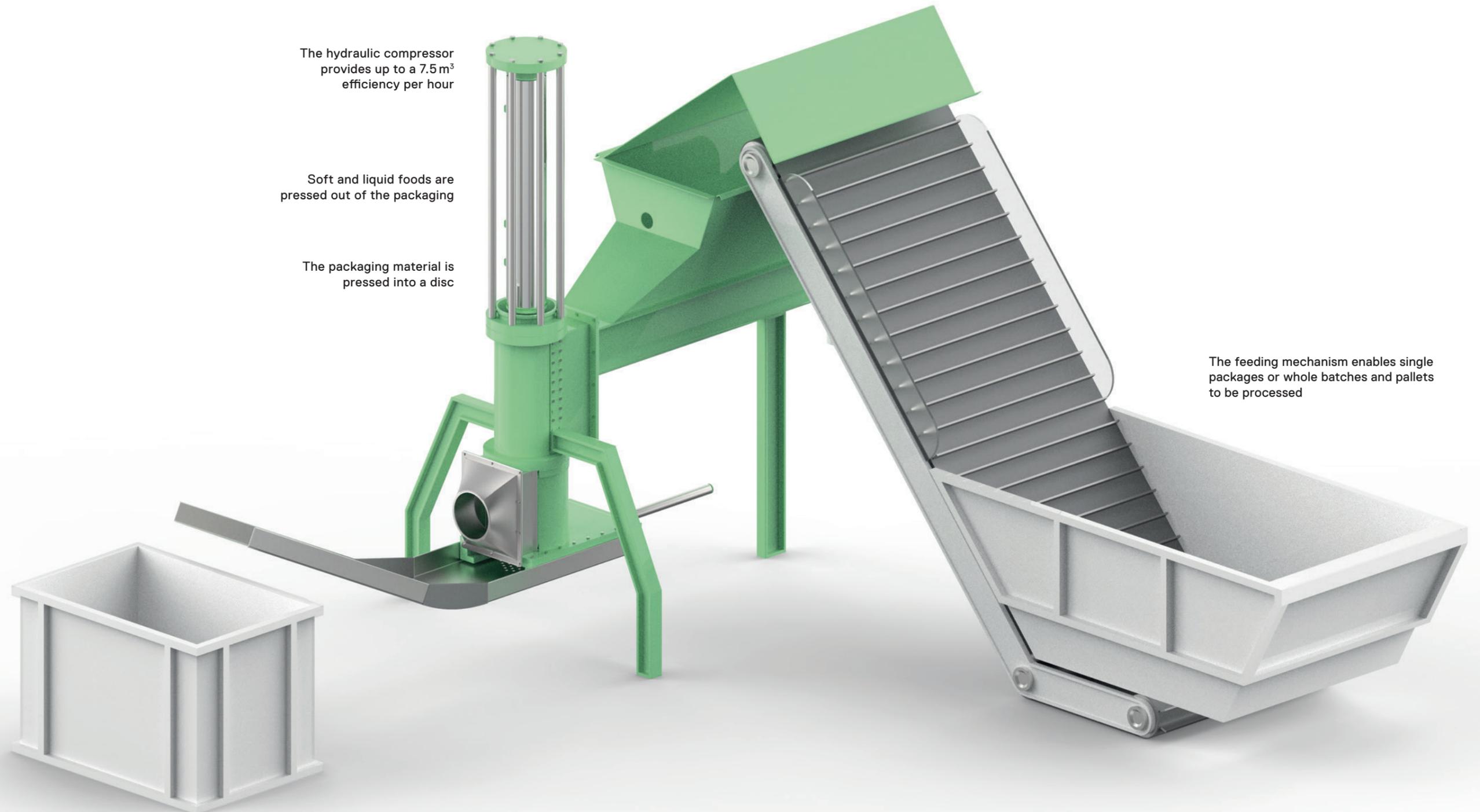
Connection values 22 – 55 kW

Filter outlets 6 – 20 mm



# Make tight packages and lighten environmental issues.

Unlike our separators, our compactors were constructed specifically for the processing of cans, tins, tubes and robust plastic packaging. They are compressed by high-performance compactors under high pressure so that contents and packaging materials are separated quickly and efficiently. In turn, the content can be returned as an organic substrate into the natural cycle while the compact packaging portion can be recycled accordingly.



The hydraulic compressor provides up to a 7.5 m<sup>3</sup> efficiency per hour

Soft and liquid foods are pressed out of the packaging

The packaging material is pressed into a disc

The feeding mechanism enables single packages or whole batches and pallets to be processed

### VERTICAL COMPACTOR VC100

Output Up to 4.5 m<sup>3</sup> / h

Cycle per minute 2.5

Connection values hydraulic aggregates 10 kW

Weight hydraulic aggregates 800 kg

### VERTICAL COMPACTOR VC200

Output Up to 6 m<sup>3</sup> / h

Cycle per minute 3.5

Connection values hydraulic aggregates 20 kW

Weight hydraulic aggregates 1,000 kg

### VERTICAL COMPACTOR VC300

Output Up to 7.5 m<sup>3</sup> / h

Cycle per minute 5

Connection values hydraulic aggregates 30 kW

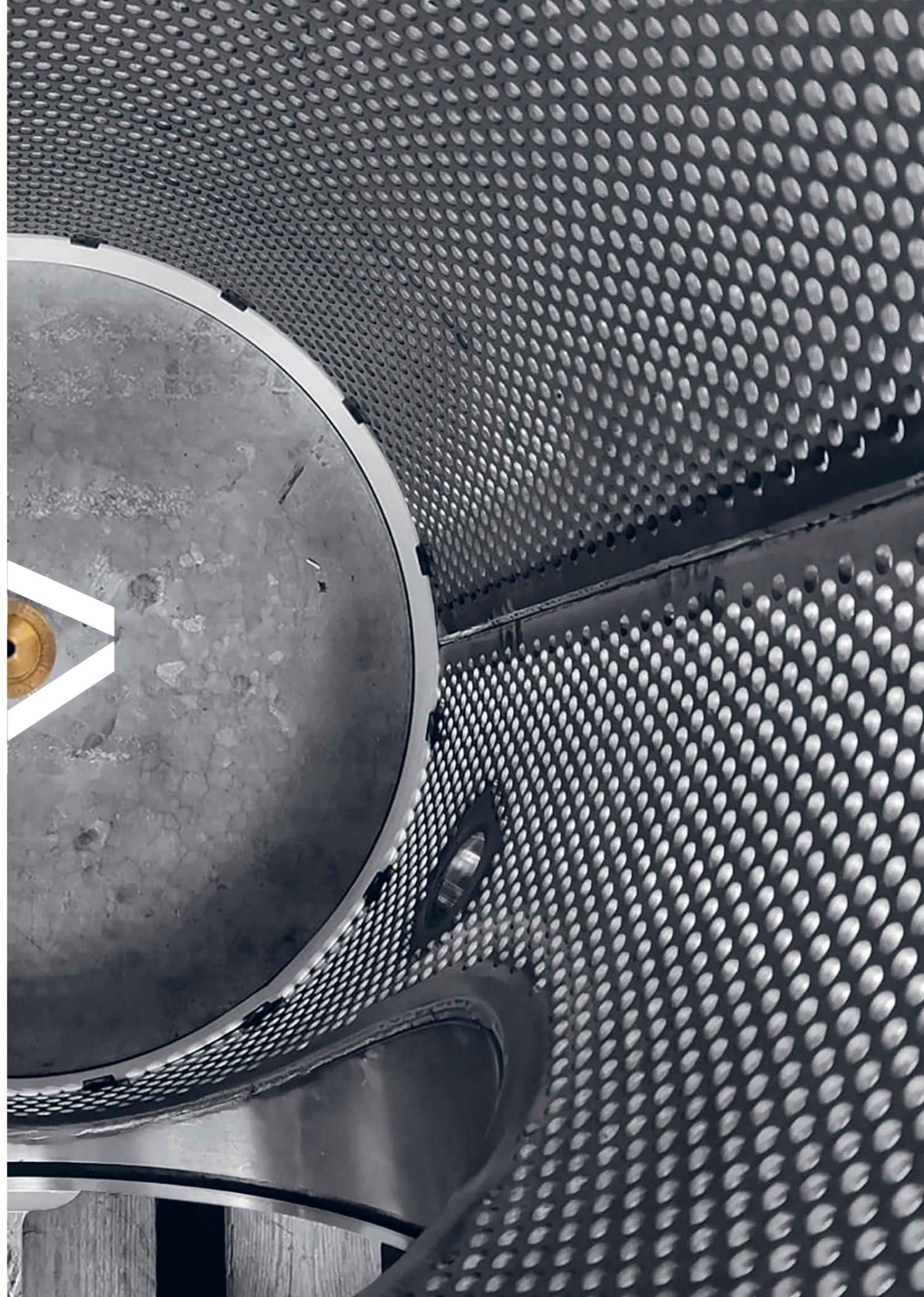
Weight hydraulic aggregates 1,200 kg

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Screen diameter 303 mm

Inlet opening dimensions 400 mm

Outlet opening dimensions substrate DN 100



Do you have any questions?  
We are happy to assist you personally.

