

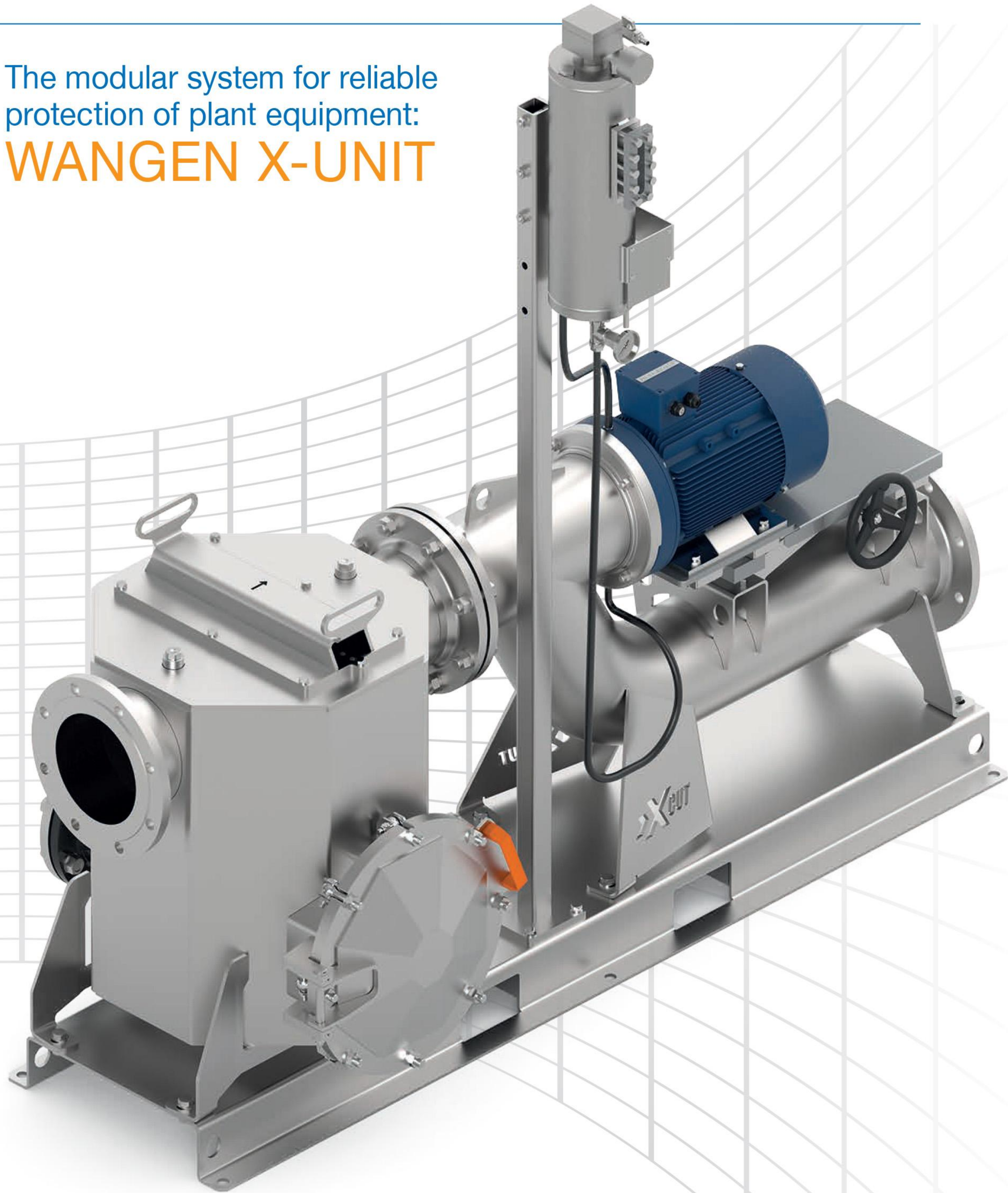


WE'RE ALL ABOUT EXPERIENCE

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The modular system for reliable protection of plant equipment:
WANGEN X-UNIT



Protects against harmful substances and improves the efficiency of your system

ONE STEP AHEAD

Modular, process-optimised and extremely durable

WANGEN X-UNIT

Optimum substrate preparation and low wear optimise the efficiency of your system

The WANGEN X-UNIT is used wherever feed needs to be chopped and foreign matter and contaminants separated:

- Bio-gas plants
- Bio-waste utilisation
- Stable application in agricultural technology
- Liquid-manure technology vehicle construction
- Municipal waste water treatment plants

Low energy consumption coupled with maximum substrate yield

Foreign matter is removed from the medium without additional energy consumption.

The WANGEN X-UNIT guarantees higher substrate digestion, thanks to the excellent cutting performance of the X-CUT.

Maximum service friendliness

due to easy access to the cutting and sealing unit.



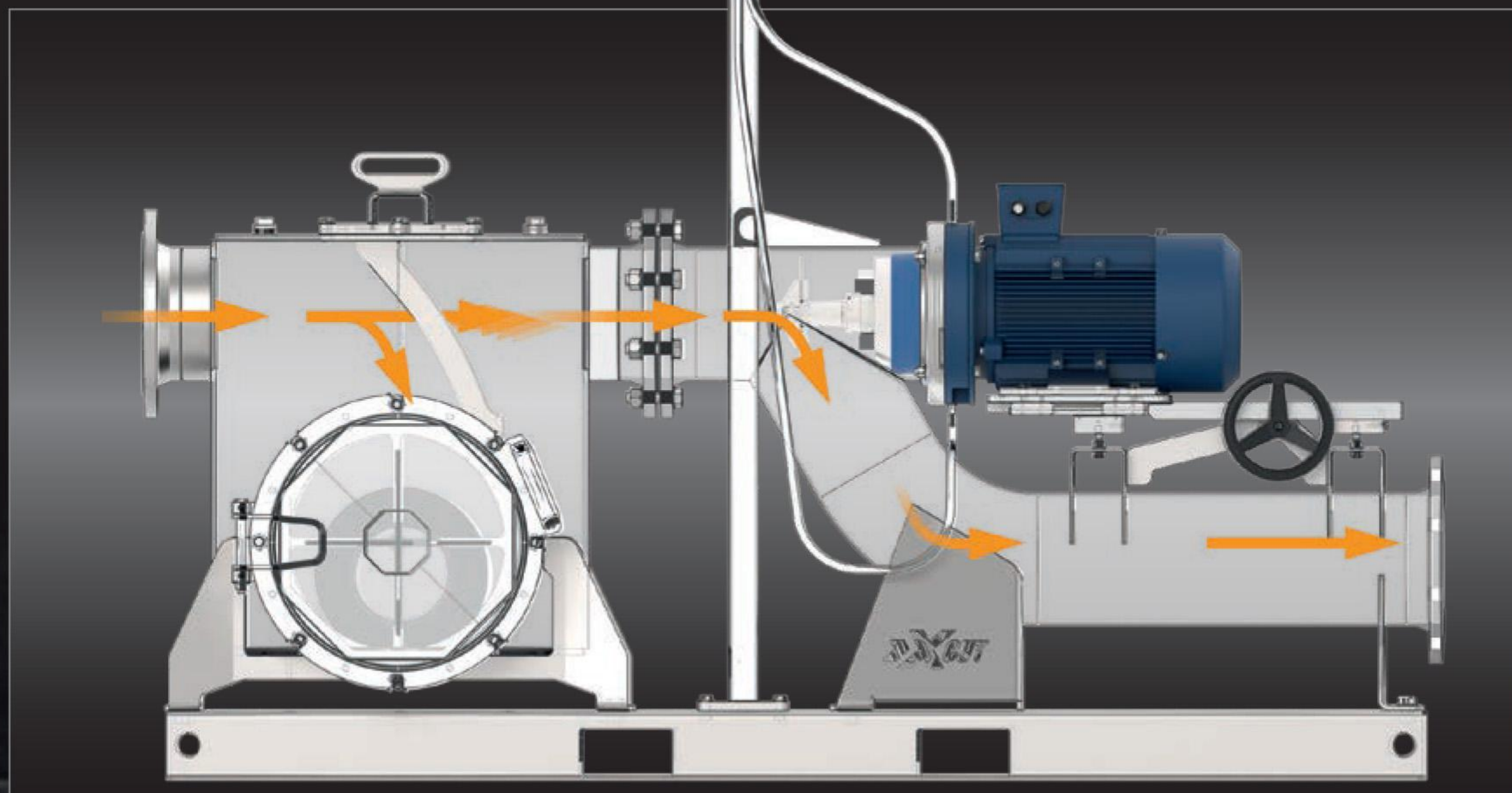
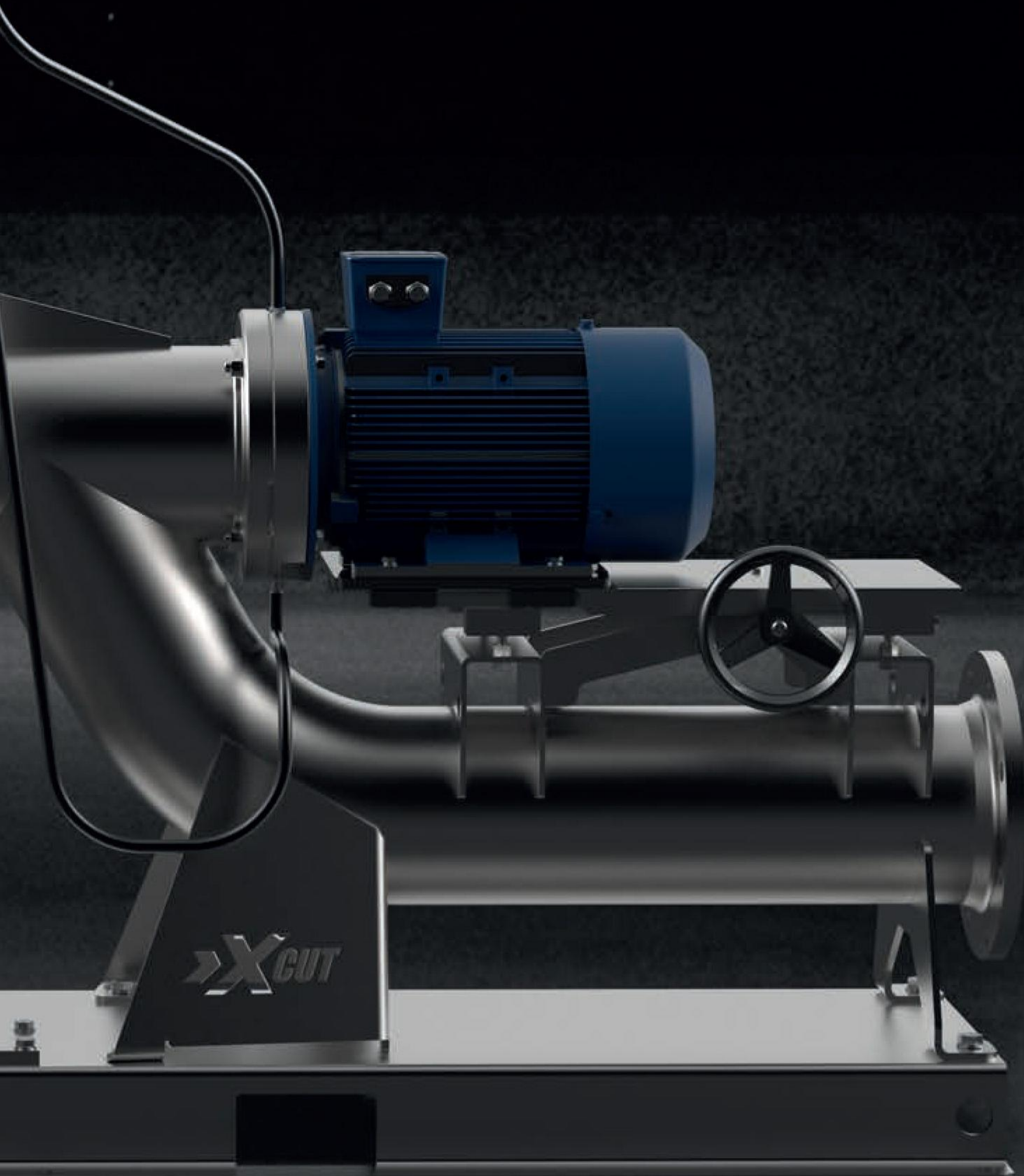


Illustration of the directions of flow of the medium through the X-UNIT



WANGEN X-TRACT

Robust module to separate foreign matter from the feed.

Especially in bio-gas plants and in agricultural technology, stones, wood, metal parts or other foreign bodies are taken out of the pumped medium, in order to ensure a troublefree and wear reduced operation of the system.

Large settling tank

with a large opening for the removal of foreign matter. The opening flap can be operated on both sides by turning the X-TRACT and rake.

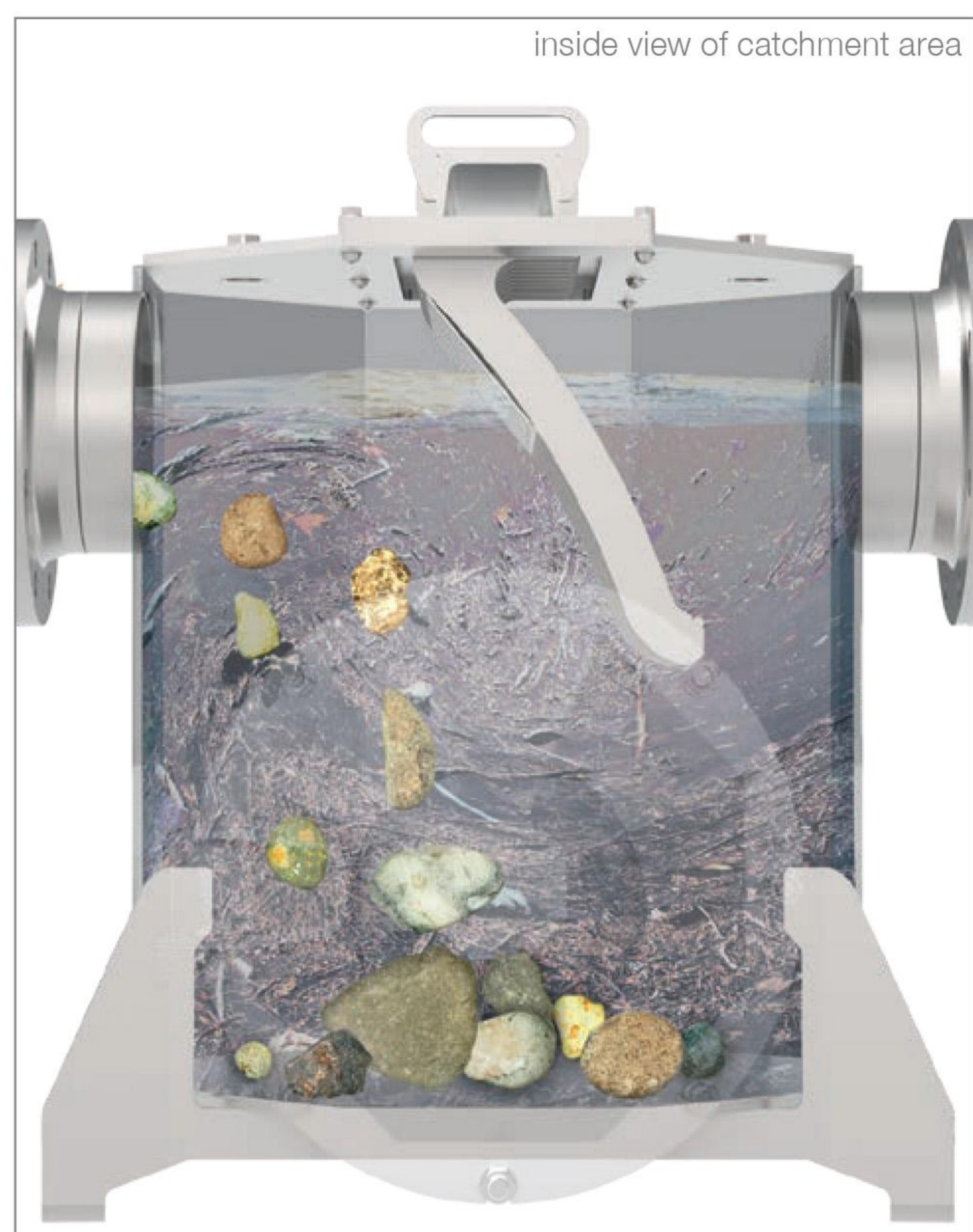
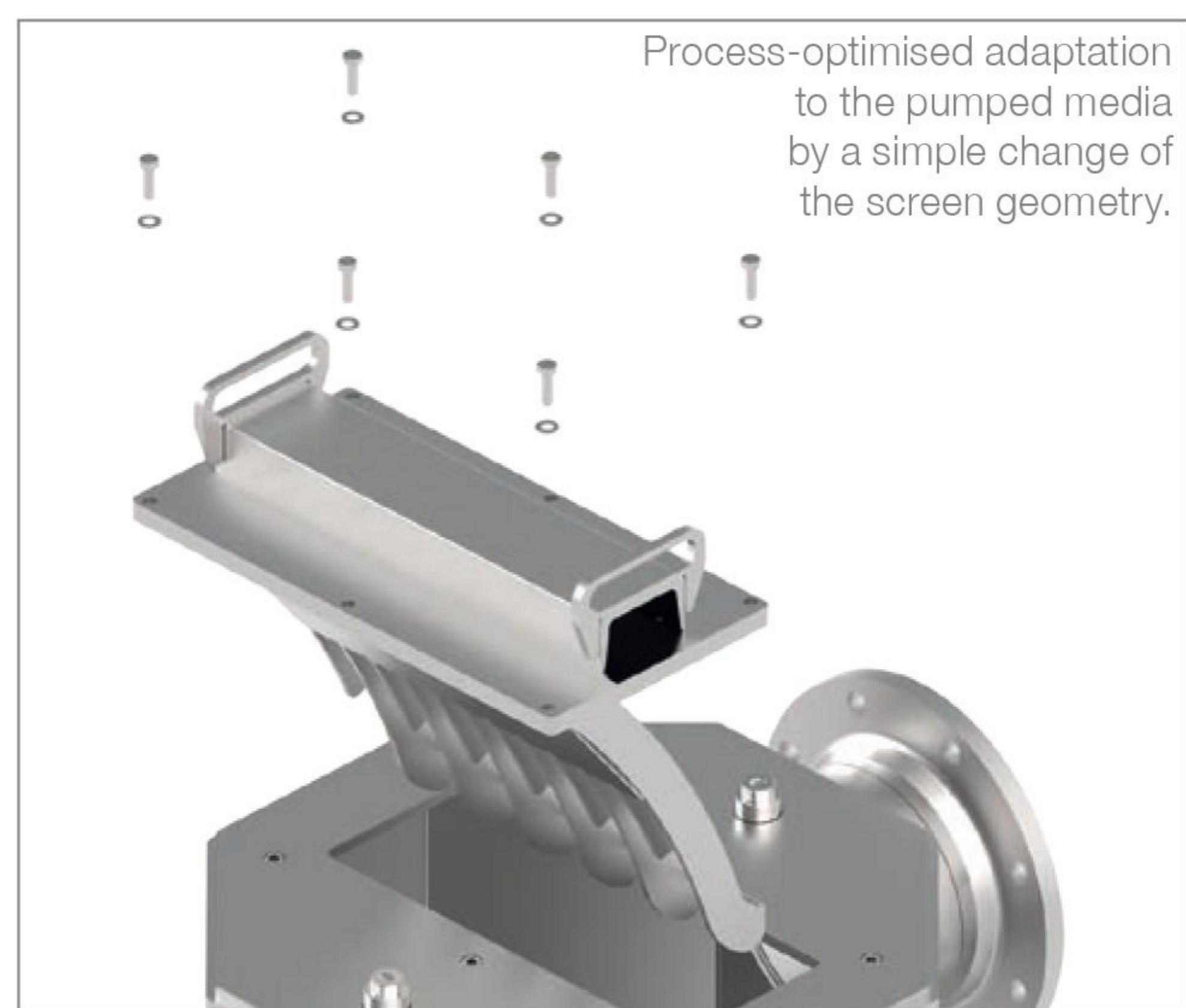
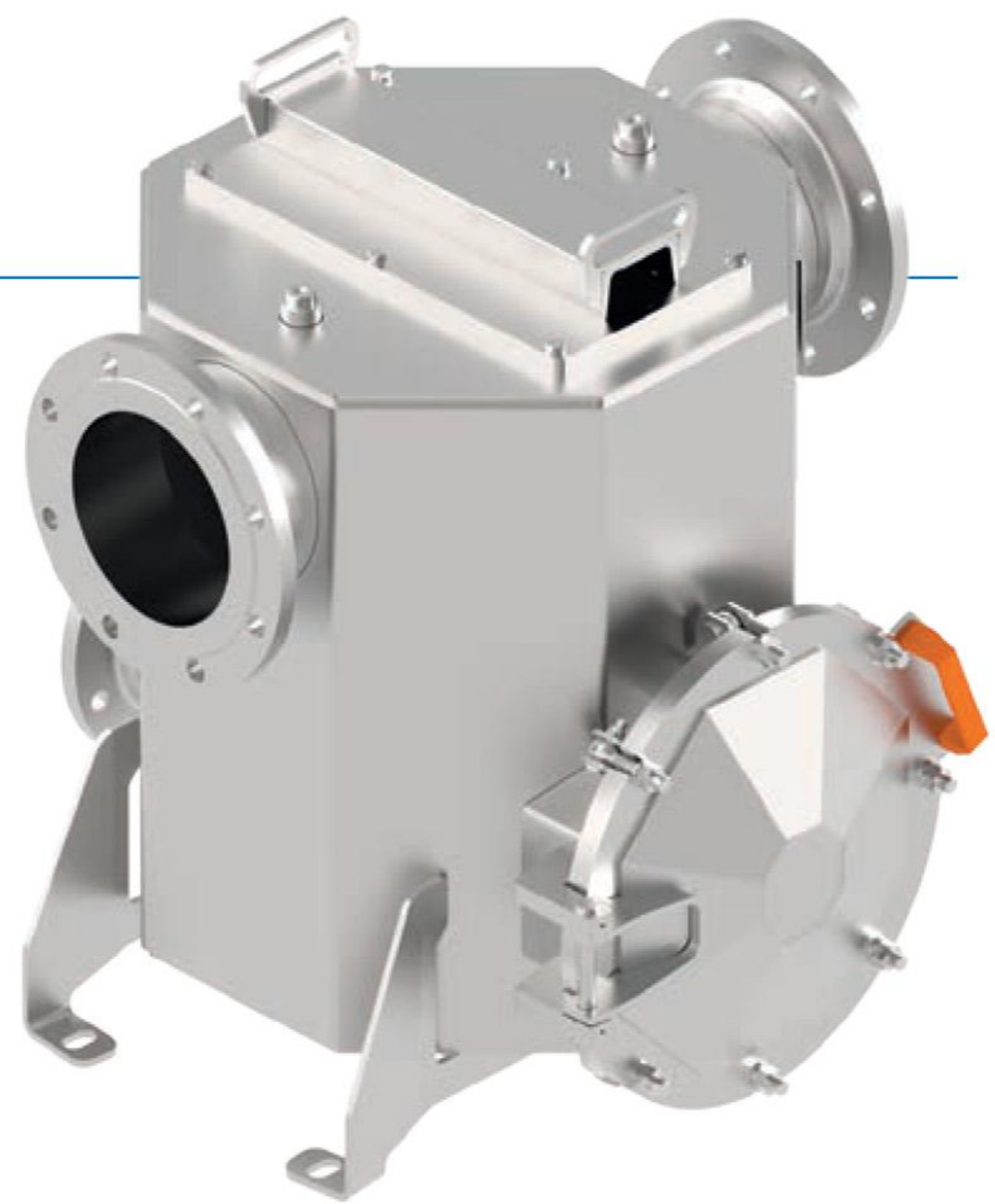
Easy integration into existing systems

through standard flange and compact, space-efficient construction design. The modular structure enables installation in case of confined space conditions through separate installation.

Further plus points:

- Very rugged implementation.
- No moving parts are needed to separate foreign matter.
- Flow-optimised catch container.
- Foreign body removal through wheelbarrow possible with mounting stand.
- Additional rinse connections available.

Foreign matter and contaminants, such as stones, are directed towards the base of the container by the geometry of the rake. Self-cleaning rake by the in-flowing medium. The X-TRACT thus avoids malfunctions and the ensuing downtime of the entire system.



X-TRACT design components:

- ① Media inlet: Pipe connections DN200 / PN10
- ② Connection for sensor to provide optimal monitoring and control
- ③ Debris catchment area
- ④ Various screen for the removal of debris and heavy objects
- ⑤ Flange DN150 / PN10 for the emptying / flushing the catchment area (see image of the rear)
- ⑥ Large opening for the removal of settled foreign bodies (optionally on the right or left).
- ⑦ Discharge: pipe connections DN200 / PN10.

Material: Galvanised milled steel (further materials on request).

Maximum capacity: 1,250 m³/h / 347 l/sec.*

Stable pressure up to 6 bar.

We recommend installing the unit on the suction side to protect the pump..



* data applies for water as media.

The high-performance chopper **WANGEN X-CUT**

Module with rotating cutting tool to chop contaminants. Speeds of up to **3,000 rpm** provide for excellent substrate digestion rates.

Ultra-resistant heavy-duty seal

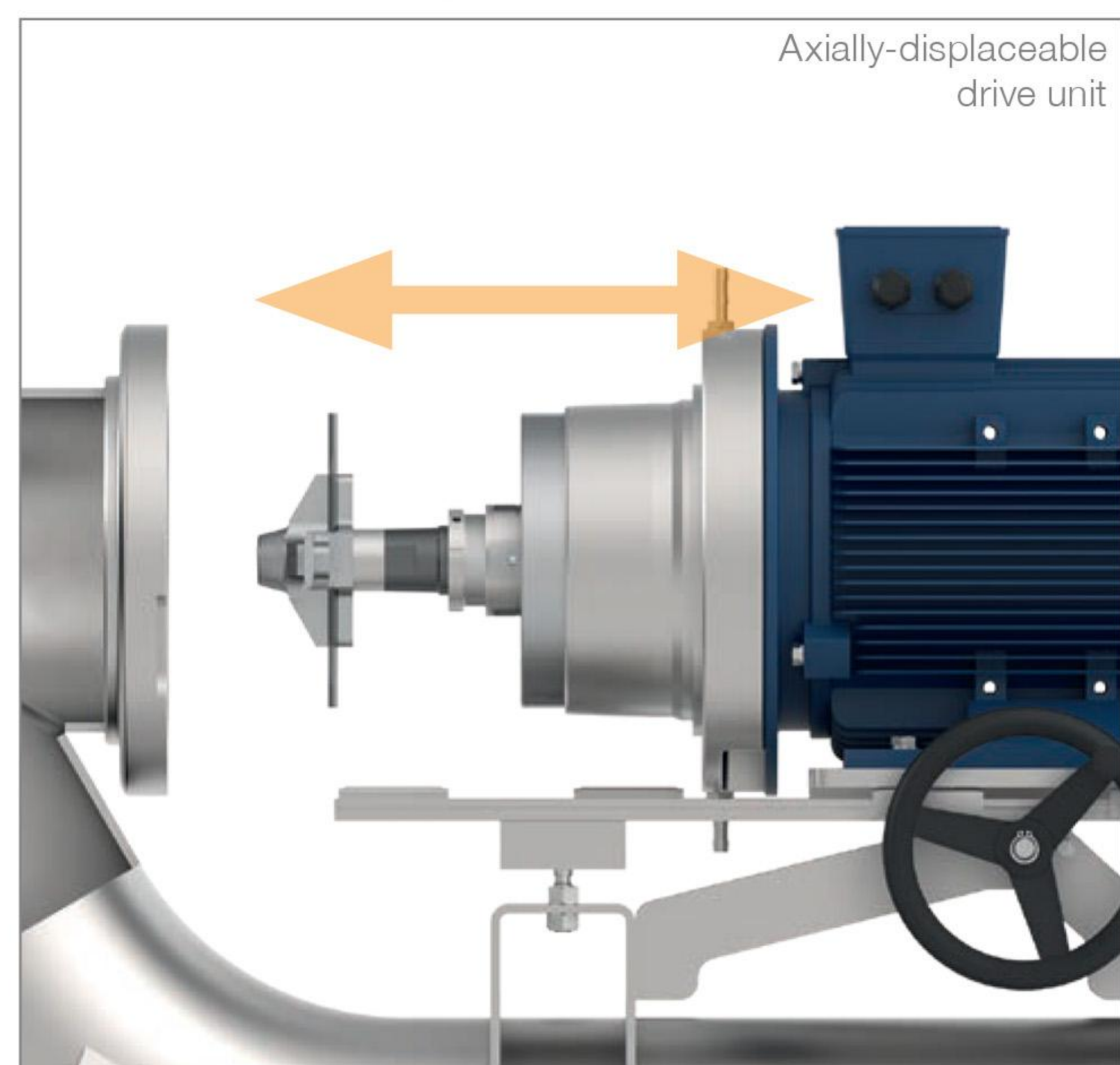
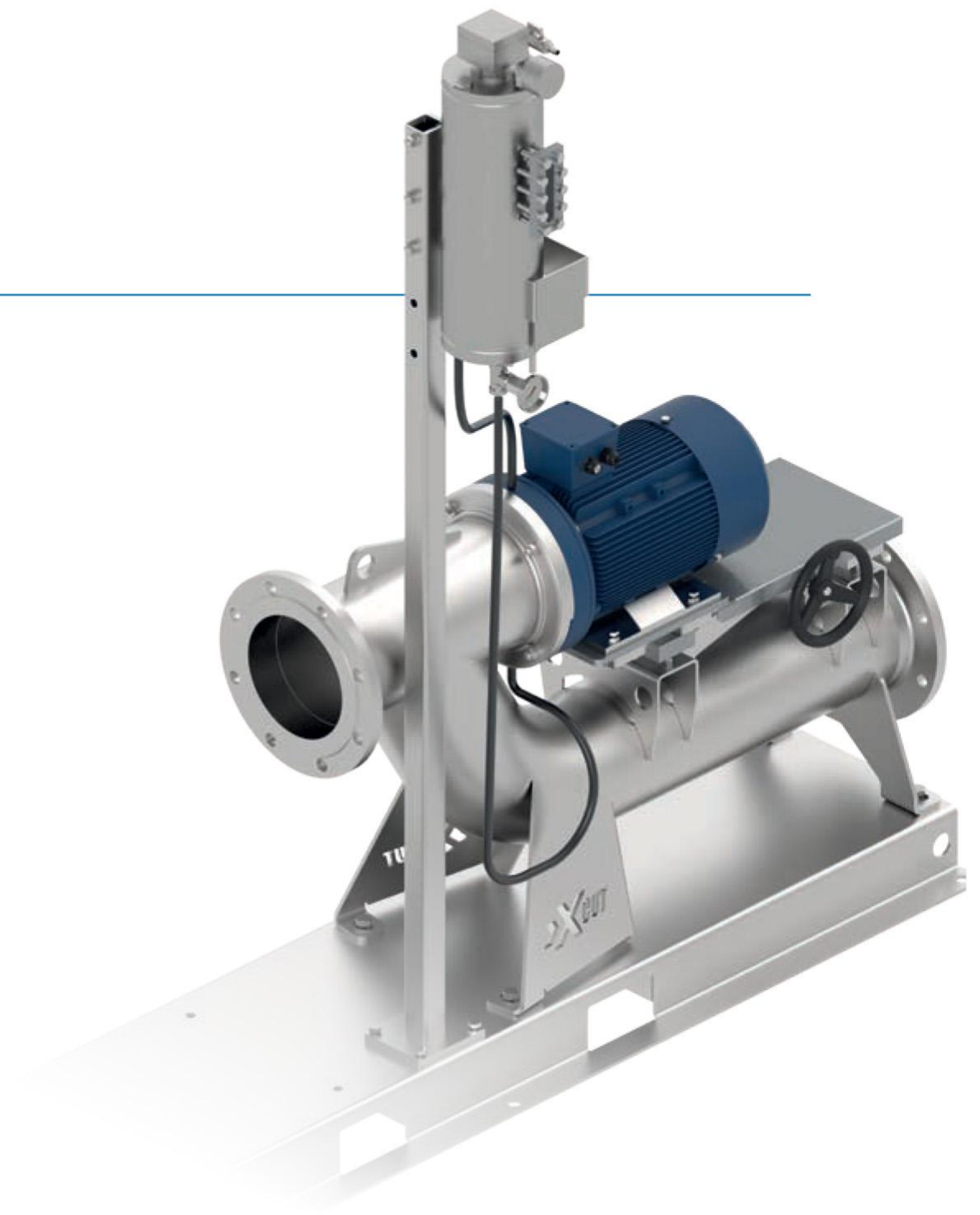
thanks to a seal with cooling and lubrication function, specifically developed for this purpose, for extremely high speeds and pressures (up to 6 bar medium pressure).

Ultimate ease of servicing

thanks to rapid replacement of the cutting blade and sealing unit. Multiple use of the cutting blades for a long service life

Further plus points:

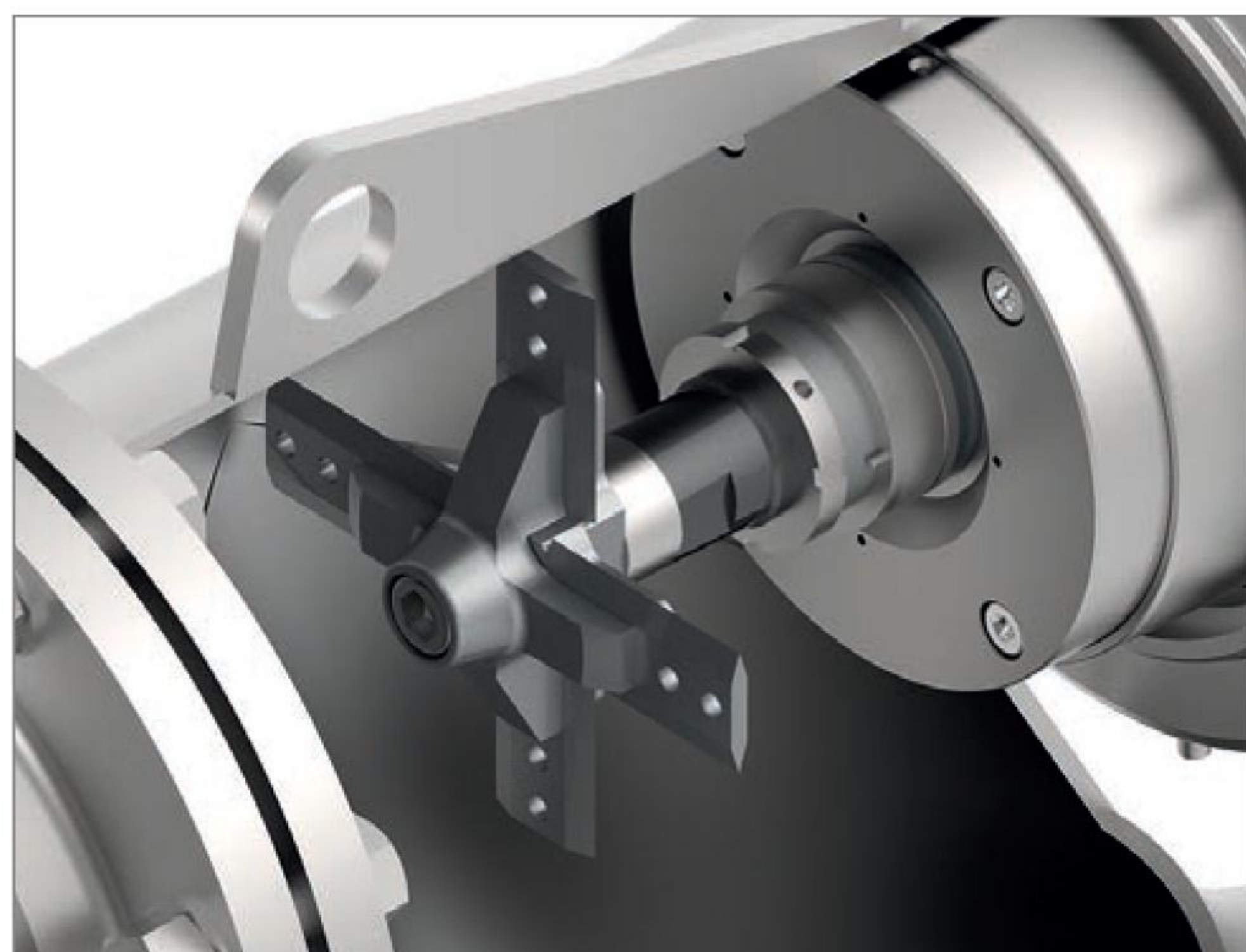
- Easily modified to adapt perfectly to the feed.
- Avoidance of clogging or similar blockages in the system.
- Optimum function in extension with the WANGEN X-TRACT.
- Long service lives and low life cycle costs, thanks to the use of high-quality materials.
- No external lifting device necessary for installation and dismantling of the wear parts by a moveable drive unit.



Substrate before:
coarse medium
interspersed with
contaminants



Substrate after:
finely chopped,
porridge-like medium
containing no
contaminants



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X-CUT design components:

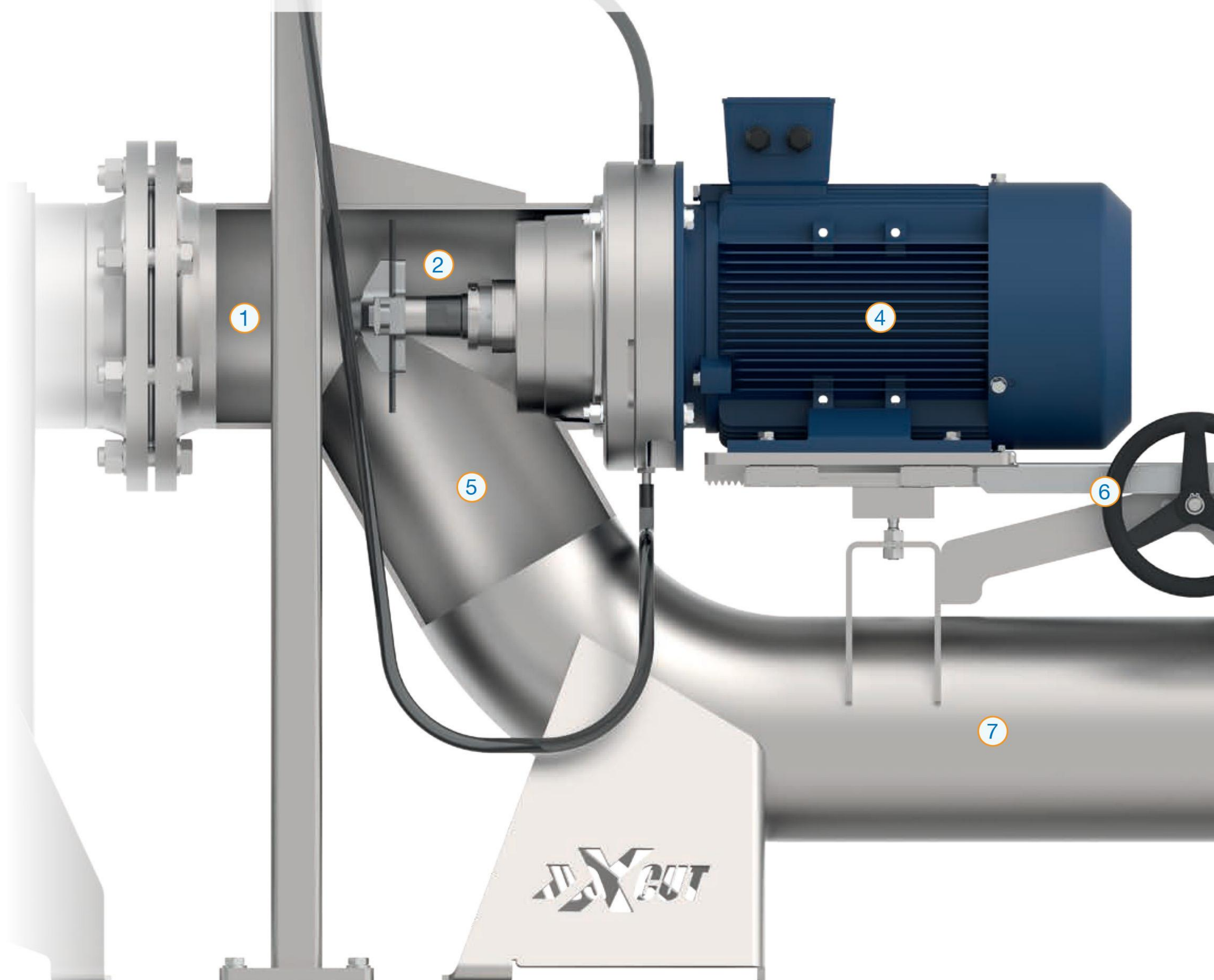
- ① Media inlet
- ② Cutting unit. Chromium carbide wear protection coating of the pipe in this area.
- ③ Thermosiphon to build up pressure and cool the lubricant for heavy-duty sealing.
- ④ Drive unit on a carriage.
- ⑤ DN 200 pipework.*
- ⑥ Hand wheel for the carriage for the axial movement of the drive unit.
- ⑦ Media outlet.

Material: Galvanised milled steel (further materials on request).

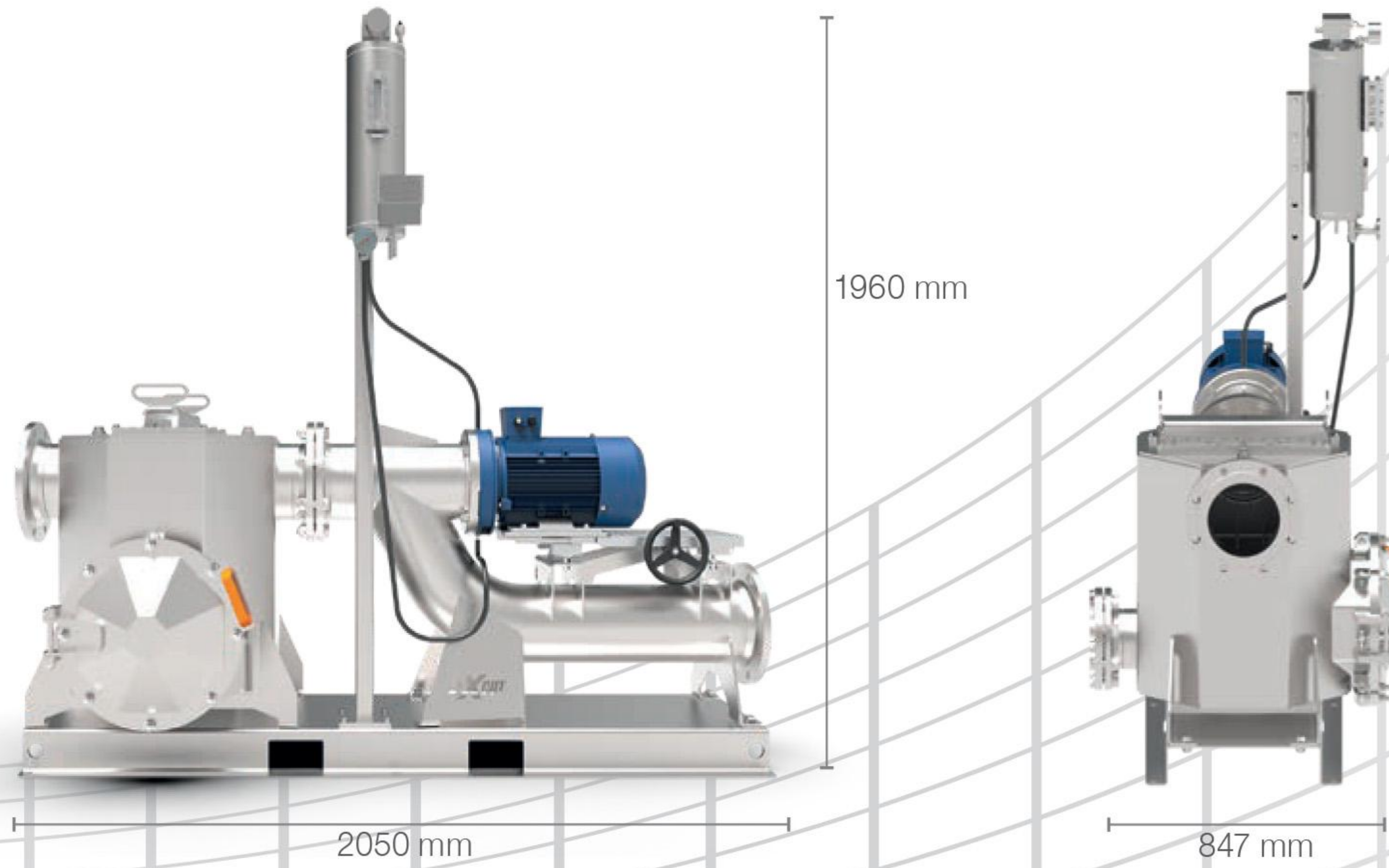
Maximum capacity: 1250 m³/h / 347 l/sec.*

Pressure stability up to 6 bar.

We recommend installing the unit on the suction side to protect the pump.



* data applies for water as media



WANGEN PUMPEN is certified to:

ISO 9001 (Quality management)

ISO 14001 (Environmental management)

ISO 45001 (Occupational safety and health protection)

All-Pumps Pty. Ltd

Australia Local: 1300 255 786

Outside Australia: +61 2 8838 1000

Fax: (02) 9630 0369

NSW HEAD OFFICE

100 Silverwater Road Silverwater NSW 2128

PO Box 7138, Silverwater NSW 1811

QLD OFFICE

130 Sandstone Place Parkinson QLD 4115

VIC OFFICE

60 City Road Southbank VIC 3006

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1300 255 786 | sales@allpumps.com.au