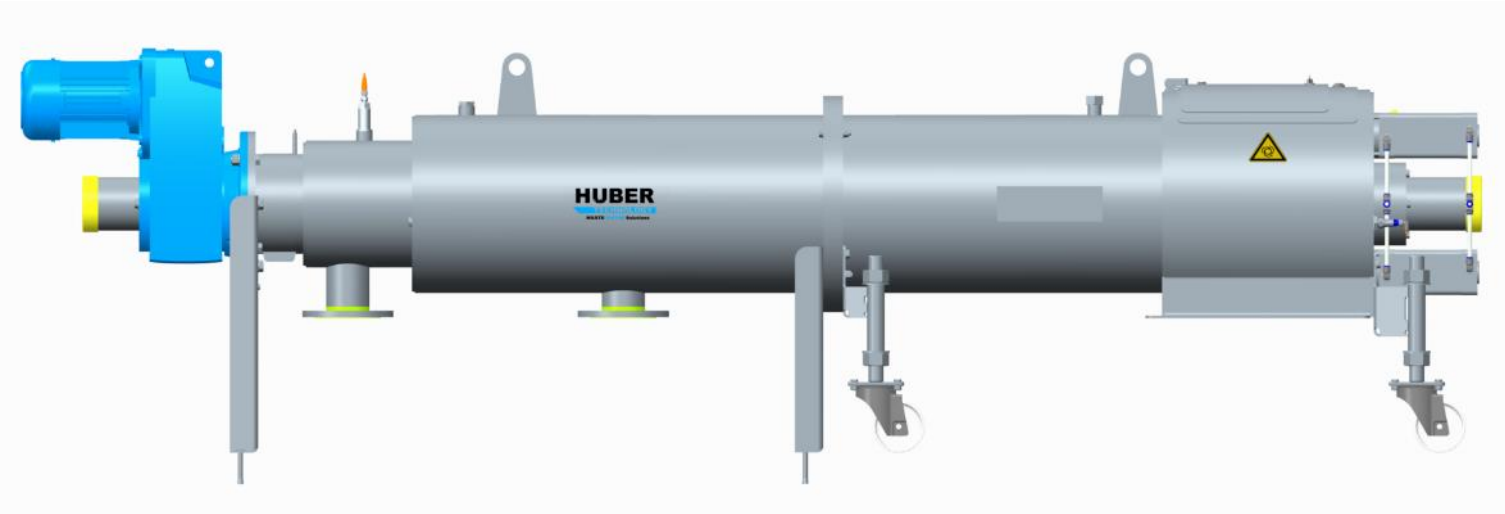
Sludgecleaner STRAINPRESS®



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TEC

March 2019

Benefits of sludge screening

HUBER TECHNOLOGY
WASTE WATER Solutions

Protection of pumps and mixers

- ➲ reduced downstream maintenance
- ➲ improved process efficiencies

pump clogged by rag

mixer wraped with plastics

dryer feeder blocked with hairs

Benefits of sludge screening

Removal of screenings, hairs, and fibers from sludge and process water

- ➲ reduced operational costs
- ➲ higher process availability

diver ermerging from cleaning a digestor

blocked heat exchanger

Benefits of sludge screening

HUBER TECHNOLOGY
WASTE WATER Solutions

Screening & dewatering in a single step

- ➲ reduced sludge hauling costs
- ➲ improved sludge utilization

unscreened dewatered sludge

screened dewatered sludge

Benefits of inline sludge screening

HUBER TECHNOLOGY
WASTE WATER Solutions

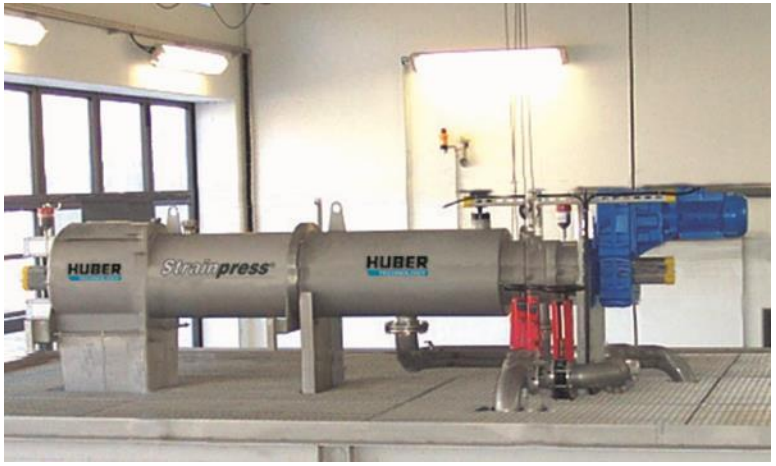
Inline pumping capability

- ➲ retrofits current piping
- ➲ does not require breaking to atmosphere
- ➲ prevents emission of
  - odours
  - aerosols
  - corrosive gases
  - explosive atmospheres

exposed screens

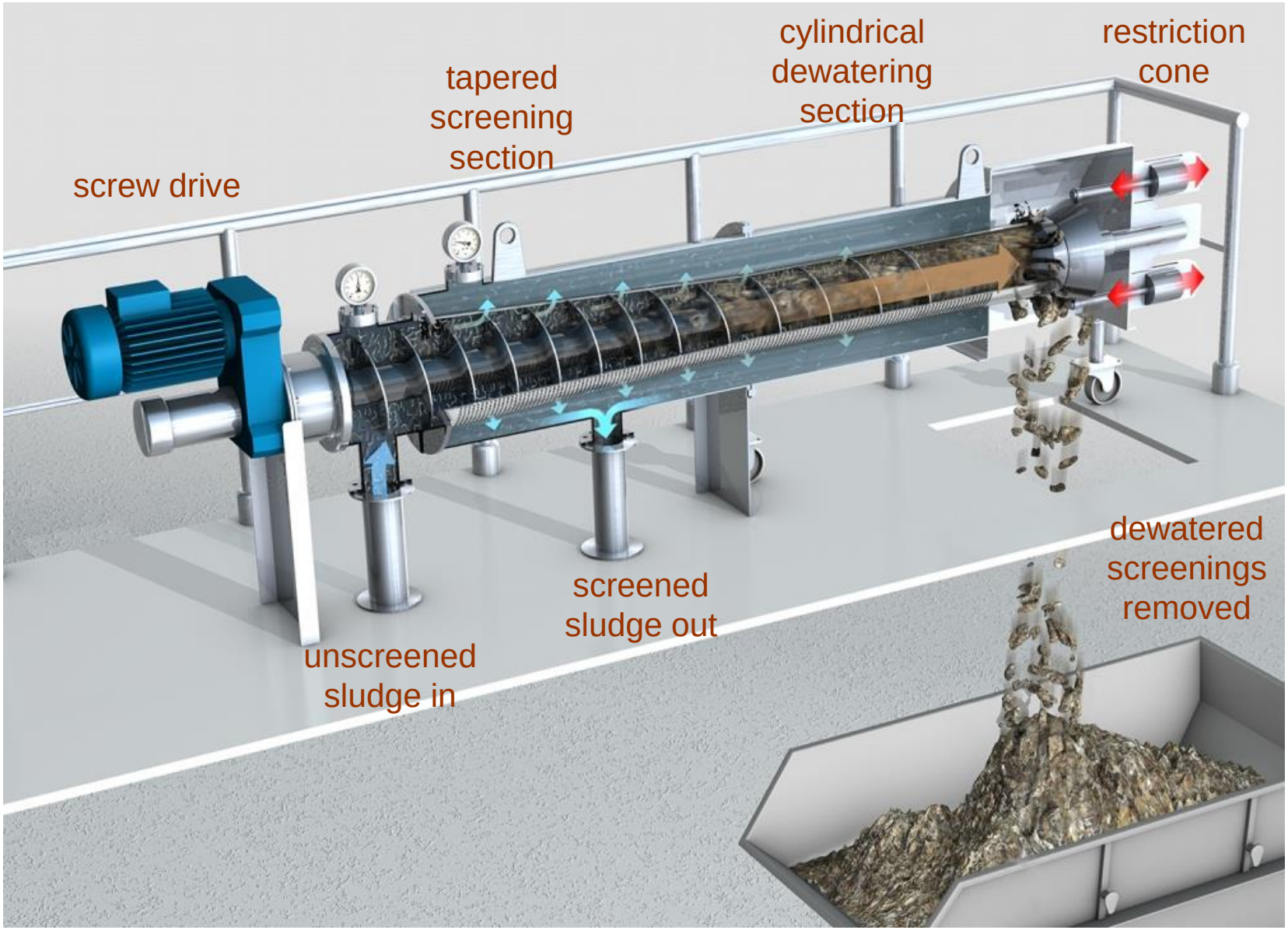
STRAINPRESS® – key features

- screening and dewatering in one step
- interchangeable screening aperture
- integration in pressurised pipelines
- enclosed system
- flows up to 240 m³/h
- controlled discharge pressure for optimum dry product
- typical screenings TS > 40 %
- operates without wash water
- manufactured entirely from Stainless Steel

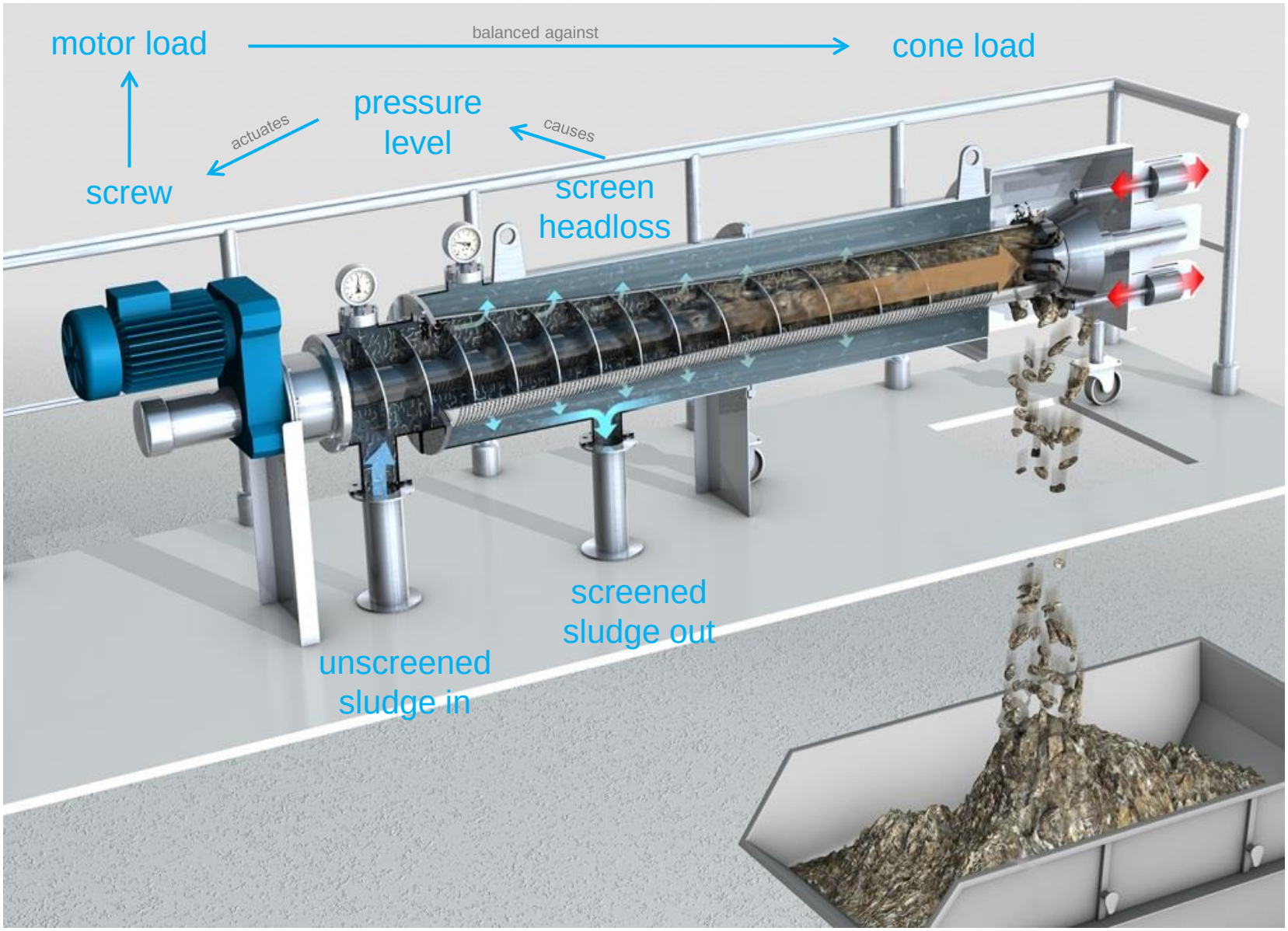


inline screening of fat

STRAINPRESS®– principal of operation



STRAINPRESS®– principal of operation



STRAINPRESS®– consumers

Electric energy
for main drive

- motor rating: 2.2 kW (size 290)
  3 kW (size 430)
- typical load: 30 – 60 %
- typical duty: 10 – 60 %
  100 % possible

Compressed air
for pneumatic restriction cone

- required pressure: 7 bar
- consumption: 15 – 25 l_N/min

STRAINPRESS®– configurations

tapered screening section
screw and 5 mm screen

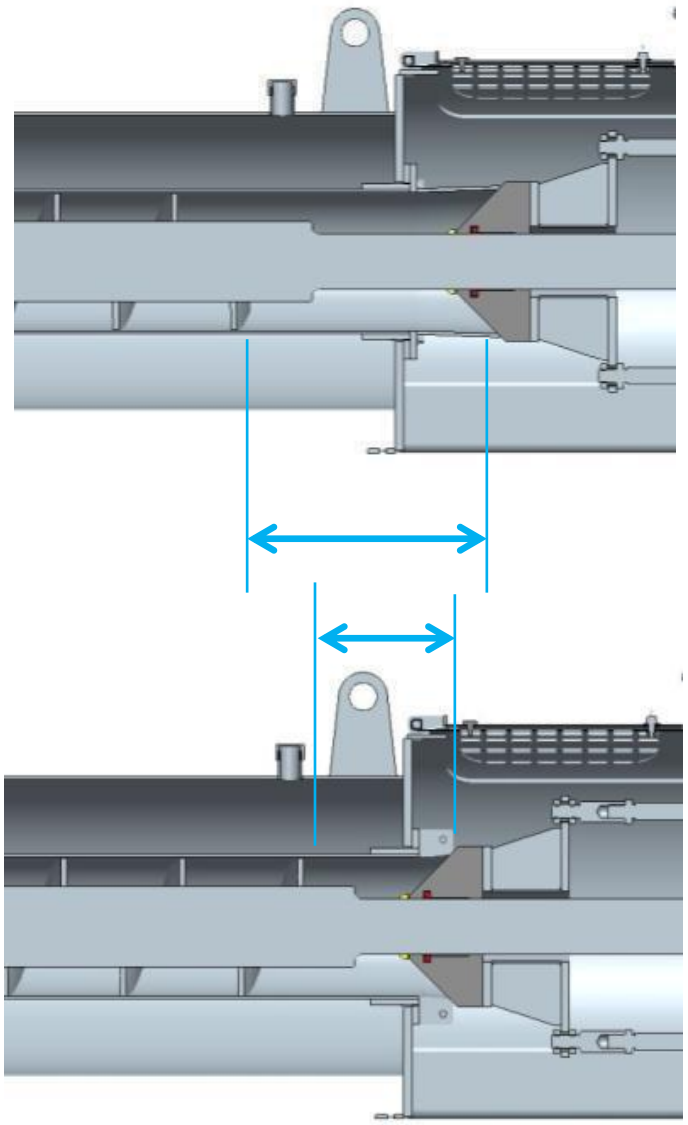
cylindrical dewatering section
2 mm screen and screw

STRAINPRESS®– configurations

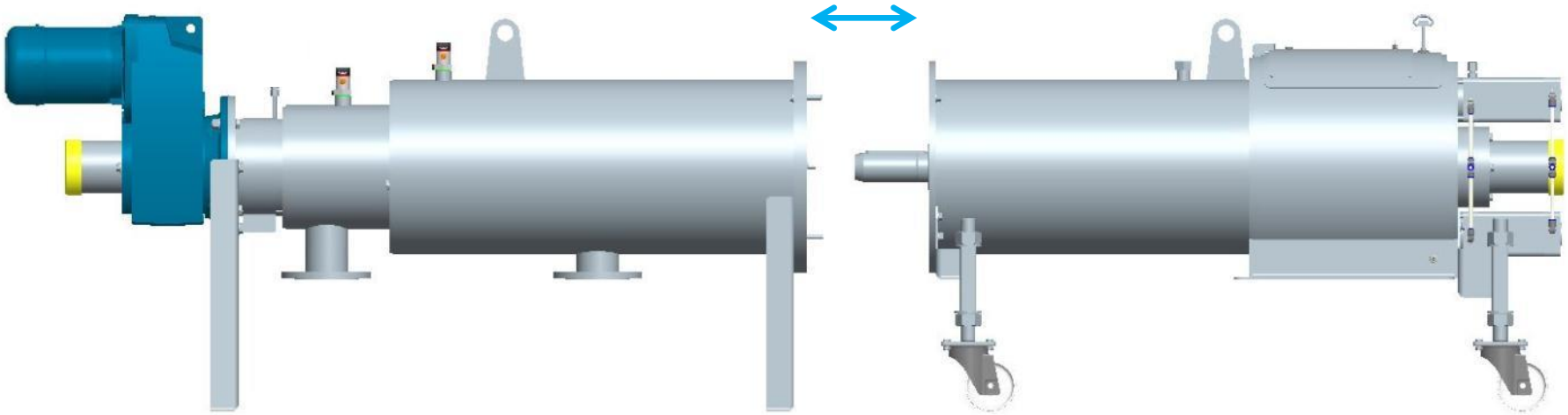
Variable length of compaction zone

➲ to suit various applications

➲ optimum dry product



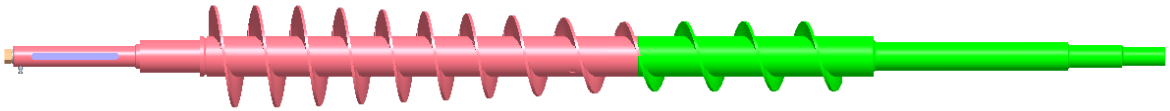
STRAINPRESS®– maintenance



Separable and movable housing

- ➲ quick and safe maintenance
- ➲ high availability

STRAINPRESS®– maintenance



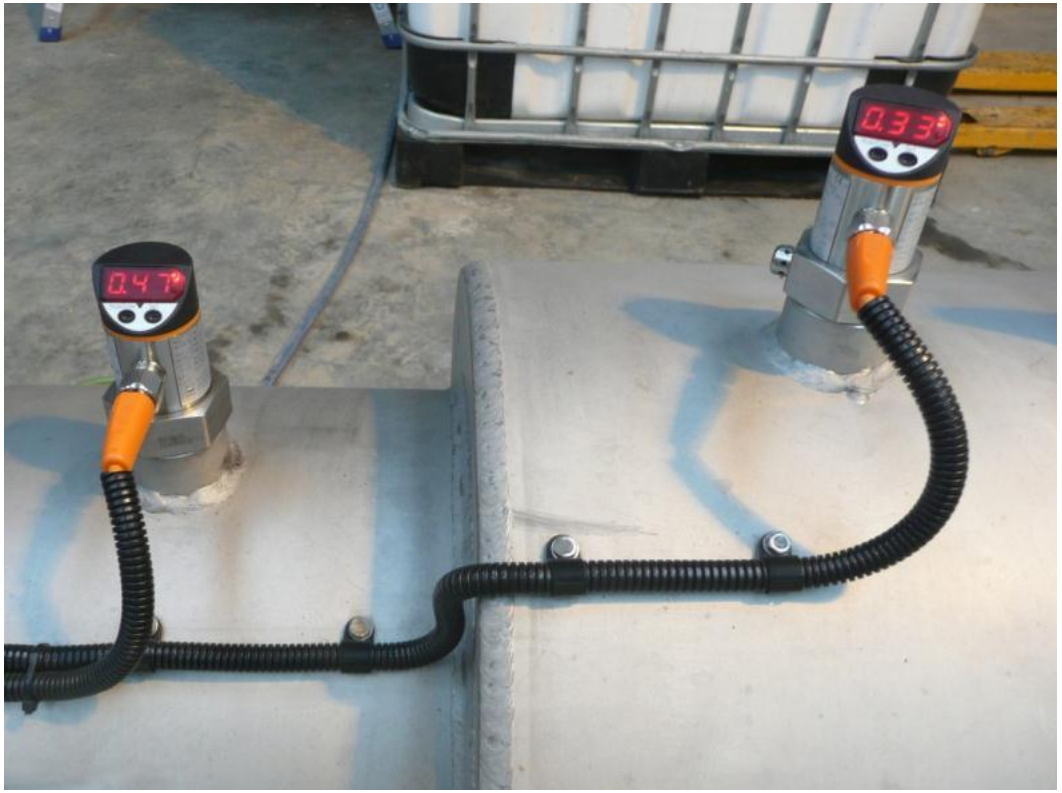
Separable screens and screws

➲ easy adaption of screens

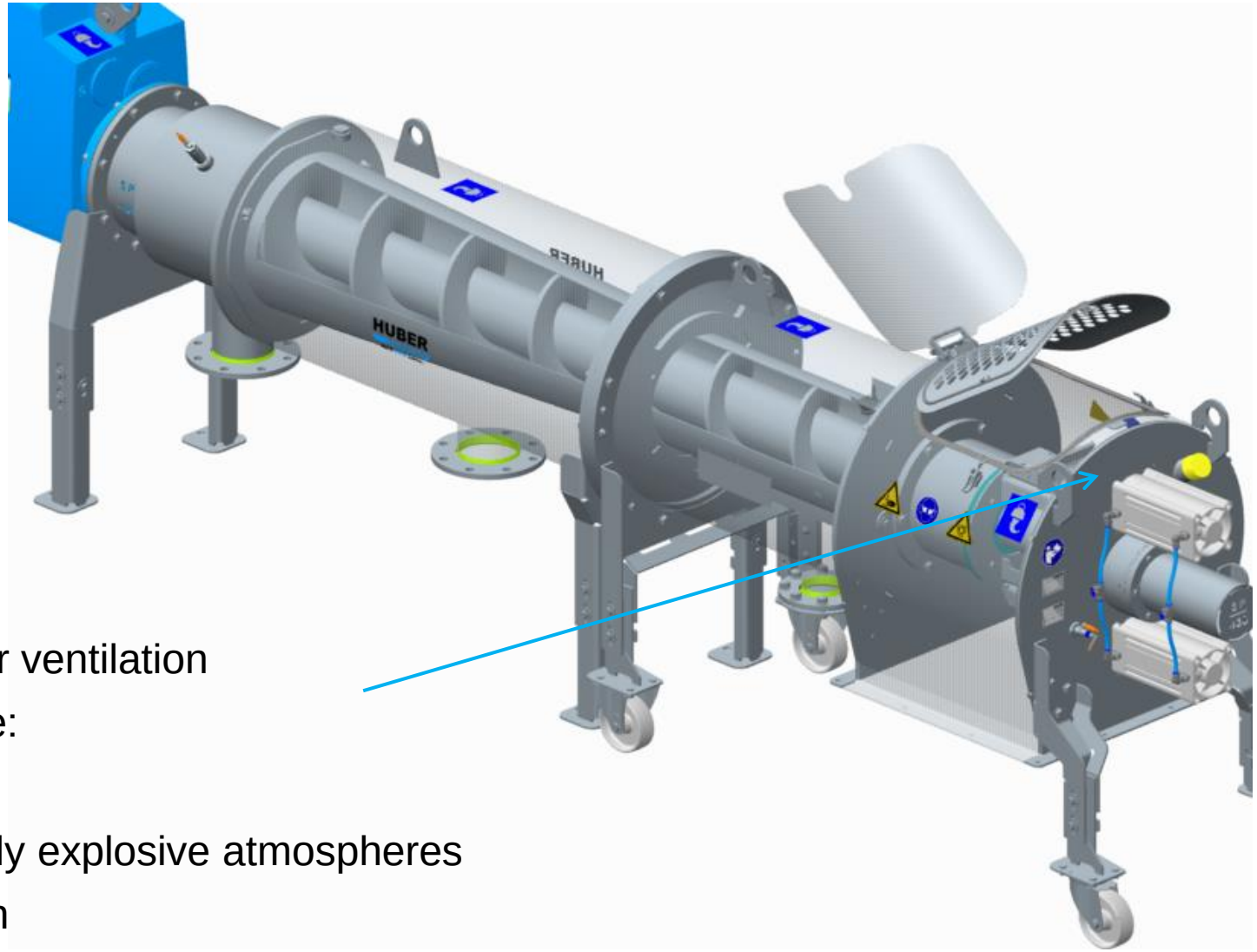
➲ quick maintenance

STRAINPRESS®– options

- ➲ option for second pressure sensor:
- to monitor liquid discharge pressure
- to control discharge pump
- both sensors available with display



STRAINPRESS®– options



➲ option for ventilation
to reduce:

- odours
- potentially explosive atmospheres
- corrosion

STRAINPRESS®– options

Continuous tube bagging system

- adaptor and bagging system
- avoids smell
- hygienic screenings handling

STRAINPRESS®– where is it applied?

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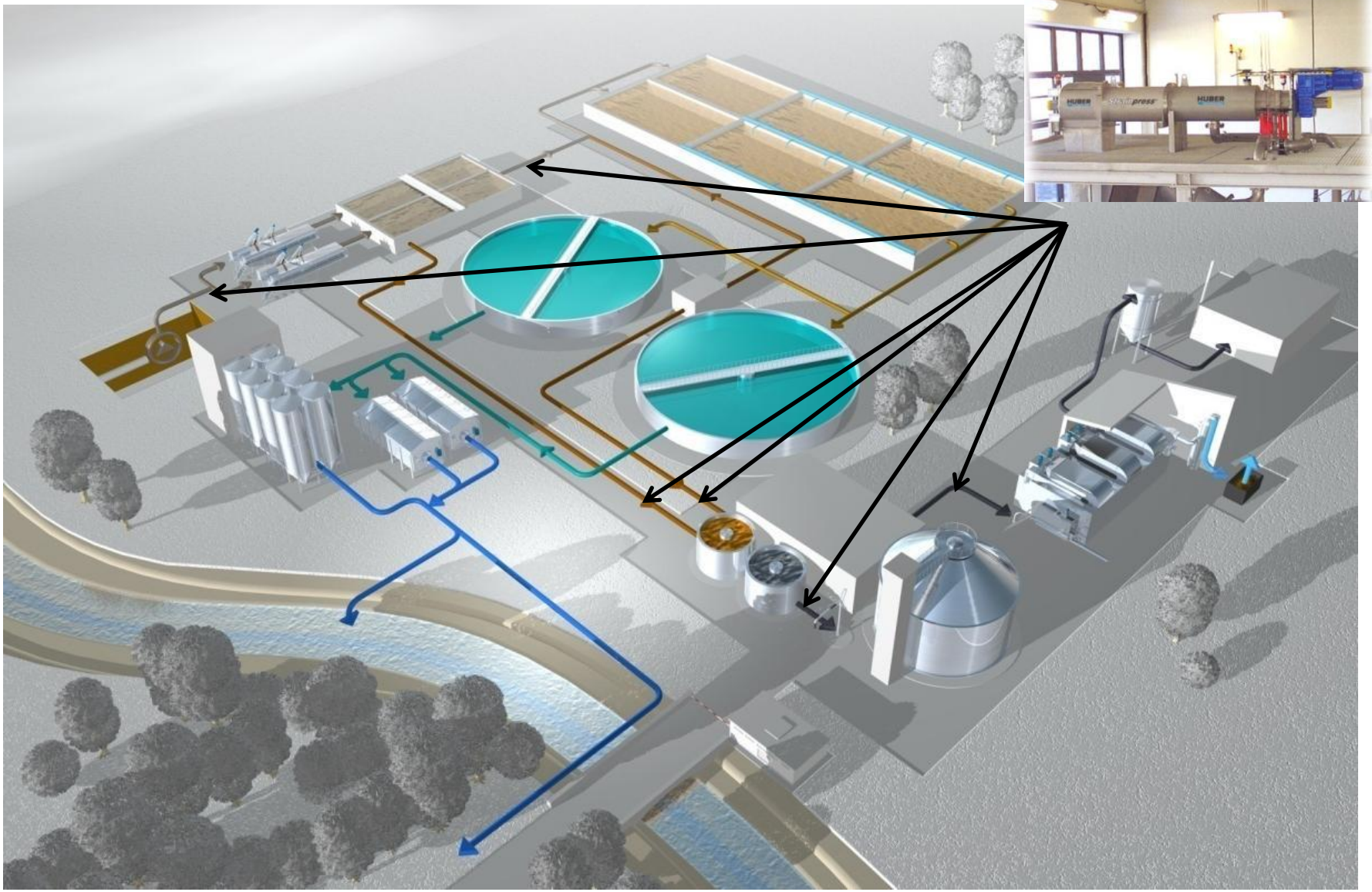

STRAINPRESS®– where is it applied?

Screening of

- imported sludges
- raw / primary sludge
- scum / grease
- filtrate / flotated sludge
- co-fermantation
- digested sludge
- thermal hydrolysis sludge

- bio waste
- recycling
- pulp and paper
- wood and fiber processing
- bio fuel
- brewery
- chemical industry
- …

STRAINPRESS®– where is it applied?

HUBER TECHNOLOGY
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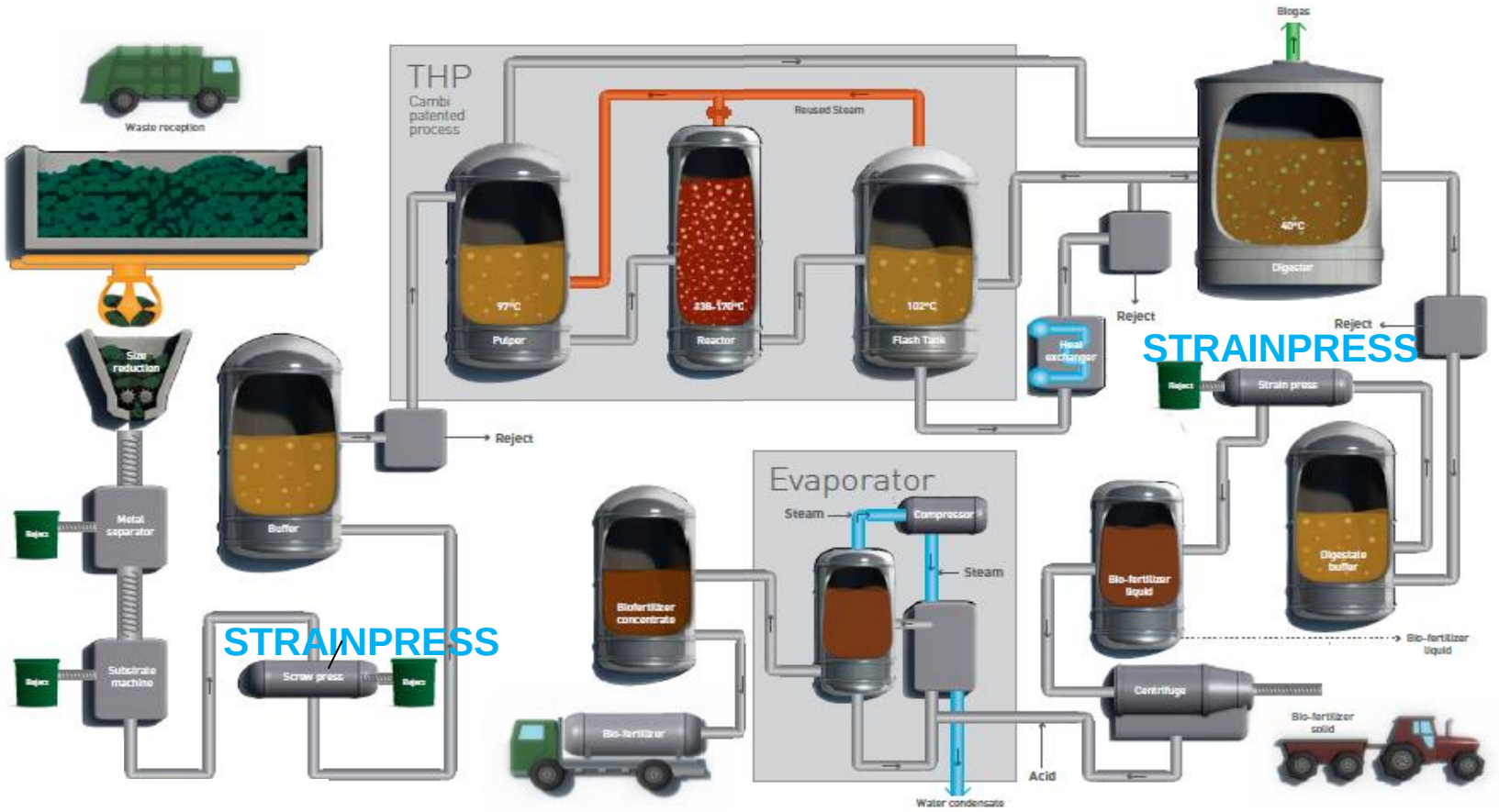
Cambi bio waste process

Simplified process flow illustration



www.cambi.no

STRAINPRESS®– where is it applied?

food waste

dewatered screenings

STRAINPRESS®– where is it installed?

- more than 1 000 machines installed world wide
- major cities like

- Sydney (AU)	- Brussels (BE)	- San Diego (USA)
- Bern (CH)	- Zurich (CH)	- Santiago (CL)
- Berlin (D)	- Barcelona (ES)	- Marseille (FR)
- Liverpool (GB)	- Athens (GR)	- Rome (IT)
- Seoul (KR)	- Marrakech (MA)	- Amsterdam (NL)
- Oslo (NO)	- Durban (SA)	- Kayseri (TR)
- …		

rely on HUBER STRAINPRESS® to protect their treatment works

STRAINPRESS®– flexible in the installation

Athens (GR)

STRAINPRESS®– flexible in the installation

Seoul (KR)

STRAINPRESS®– installation examples

Vasteras (S)

STRAINPRESS®– installation examples

Oxford (UK)

STRAINPRESS®– installation examples

Budapest (HU)

STRAINPRESS®– facts

- if installed downstreams a 6 mm bar screen a Strainpress can still separate ~ 30 % of the wwtps total course material quantity
- reduces wear and down-times on downstreams process
- separates and dewaters screenings in one step
- allows multiple interchangeable screen configurations
- dewatering results typically >= 35 % dry solids
- entirely made of stainless steel
- operates unattended
- easy integration into existing pressurised systems
- simple and quick maintenance