



A brand of
Aqseptence Group

Passavant® Scraper Technology for Longitudinal Tanks

The Aqseptence Group offers with the Passavant® Scraper Technology for Longitudinal Tanks a robust and reliable scraper systems, based on a wealth of experience which has been gathered over decades of manufacturing and development.



Automatic and turbulence-free removal of sediment and floating scum, which accumulate as a result of the solids separation in rectangular sedimentation tanks during mechanical wastewater treatment solids removal processes.

The bridge design Passavant® Longitudinal Scraper spans one or several adjacent longitudinal

tanks. The blade scraper design pushes the settled sludge, against the direction of the flow, into a sludge hopper located at the inlet. The alternative suction system conveys the sediment from bottom of the tank directly to a collecting trough. The floating scum is generally moved in flow direction to the outlet of the sedimentation tank, from where it is removed.

Benefits

- Robust scraper technology with high level of operational reliability:
 - low wear and tear with slow-moving components
 - scraper blades can be lifted to upper edge of basin (optional)
- Scraper can be provided completely in stainless steel on request
- Long service life due to high-quality materials
- Large tank widths / carriageway widths can be cater for:
 - up to 15 m: single scraper system
 - up to 30 m: twin scraper system

Product variants

Passavant® Scraper Technologies are available using a blade or suction design, optionally with or without floating scum removal systems to meet site requirements:

- **Blade scrapers in longitudinal tanks:** generally equipped with lifting gear to enable simple and safe maintenance.
- **Suction systems:** suction systems mainly consist of V-shaped blades which push the sludge to the mouth of the suction pipe.
- **Scum removal:** achieved using a blade and discharge trough

Design features

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| Bridge construction | <ul style="list-style-type: none">· U-profile or folded profile bridges with walkway, anti-skid grating, emergency and access ladders· Single, twin or triple scraper bridges |
| Bridge drive | <ul style="list-style-type: none">· Two carriages with drive and running wheels as single or double drive· Geared motor with drive wheel mounted on the gear· Solid rubber or Vulkollan tyres· Rail-free design with horizontal guide rollers· Rail-based design with rack and pinion drive system for high discharging capability |
| Accessories | <ul style="list-style-type: none">· Motor cable reel with rubber hose line· Running wheel monitoring· Control unit (incl. relay control or PLC) made of stainless steel, installed on the bridge |

Materials

All components are manufactured in high- quality materials:
Above water level: galvanized steel, coated or stainless steel
Below water level: coated or stainless steel

Options

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|-----------------------------|--|
| Inlet equipment | <ul style="list-style-type: none">· As standard, Stengel inlet systems· Various special designs |
| Outlet equipment | <ul style="list-style-type: none">· Overflow weir and scum board in accordance with DIN 19558· Submerged outlet pipes |
| Range of accessories | <ul style="list-style-type: none">· Snow sweeping and de-icing devices· Bridge lighting |

Fields of operation

Passavant® Scraper Technology for Longitudinal Tanks is not only suitable for new installations but can be easily retrofitted into existing plants:

- In particular, in primary settling tanks and storm water sedimentation tanks
- Secondary clarification tanks
- Single or multiple tanks
- Municipal and industrial installations, also cases with specific requirements



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The technical data stated in this brochure are indicative only and have to be determined for each individual case.
Reserve technical changes.