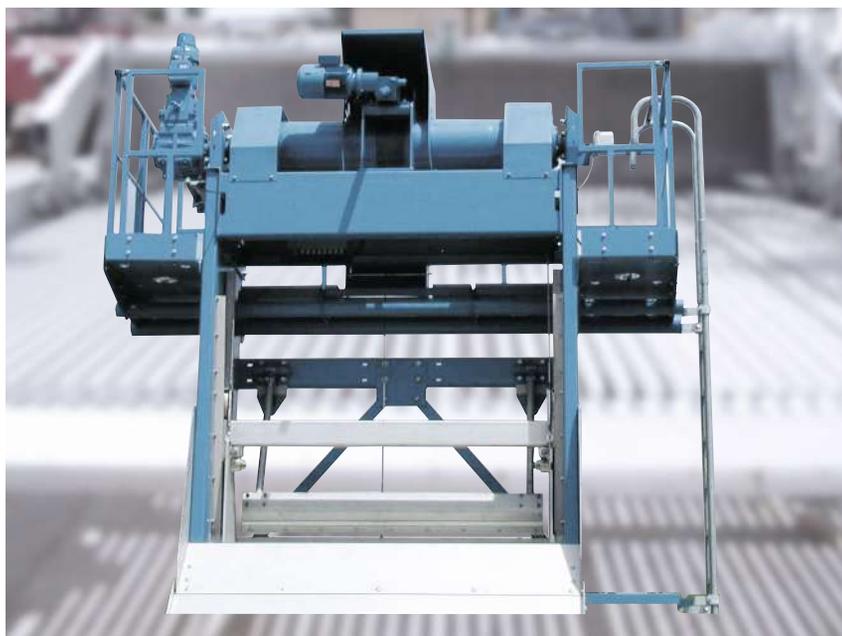


A brand of  
Aqseptence Group

## Passavant® Cable Operated Bar Screen COB

Removal of bulky screenings and sediments such as sand, grit and debris in pumping stations or in the inlet area of wastewater treatment plants to protect downstream installations.



The Passavant® Cable Operated Bar Screen COB, supplied by Aqseptence Group, is employed as a coarse or fine screen for the mechanical pre-treatment of wastewater. It is an outstanding solution due to its high cleaning performance and its intelligent PLC control system. As the cleaning process can be repeated as often as necessary in any position, the machine is able to efficiently remove even extremely bulky screenings, sand deposited in front of the screen, or screenings trapped between the screen bars, which impede the downwards movement.

### Benefits

- The robust design and intelligent cleaning technique ensure a high level of operational reliability and cleaning performance.
- Low operational costs and low maintenance
- High loading capacity and reliable grabbing of bulky screenings by means of a grab cleaner with rake bucket
- Cleaning cycle can be started from every grab cleaner position
- Forced closing of the grab bucket during the cleaning cycle
- Different speeds of the cleaner carriage during descent and cleaning cycle
- Numerous references worldwide and over 50 years of operating experience
- Exact limitation of lifting stroke
- Installation depth up to 50 m.

## Materials

All components of the Cable Operated Bar Screen COB are manufactured with top quality materials:

- Steel with high quality surface coating
- Stainless steel

## Product variants

The Passavant® Cable Operated Bar Screen COB is, depending on the respective application, available in the following versions:

<b>COB-C</b>	Standard size for an installation depth of up to 20 m
<b>COB-XL</b>	Designed for heavy use in deep channel up to 50 m. (Grab carriage with an opening of 500 mm)
<b>COB-XXL</b>	Dimensions similar to COB-XL, but with a Grab carriage with an opening of 800 mm for very bulky screenings removal operations

**All versions can be supplied in the following dimensions and design:**

- Installation angle vertical or inclined (75°–90°)
- Apron made of concrete (to be provided on site)
- Apron made of steel
- Stationary machine or travelling version
- **Channel width:** 0.9–6.0 m
- **Bar spacing:** 10–150 mm

Further models and dimensions are available on request to meet your individual requirements.



COB-XXL Mexico

## Design features

The Passavant® Cable Operated Bar Screen COB is equipped with two independent drive units for lifting and pivoting gears. The cleaner carriage runs in guideways and is actuated by means of pivoting and lifting ropes.

These components are designed as a unit in such a way that, during the cleaning cycle, the lifting force acts as a lever on the grab cleaner and forces it to close. The resulting strong closing force of the grab cleaner enables it to transport bulky screenings and very heavy loads.

The descent and the cleaning cycle are controlled by the lifting gear. The meshing of the grab rake into the bar rack is controlled by the pivoting gear.

The slack rope monitoring system detects a possible blocking of the grab cleaner due to floating refuse, debris, etc. and interrupts the descent to the lower meshing point so that the cleaning cycle is started.

An intelligent cleaning technique allows the cleaning of the bar rack to be started from every position of the grab cleaner. Deposits on the invert or bulky screenings are removed layer by layer. In the case of blockage or overload, the installation is switched off by means of a special electro-mechanical safety control system. This automation system ensures unusually high operational reliability and, therefore, a high throughput rate.

Passavant®  
Cable Operated  
Bar Screen COB



## Function

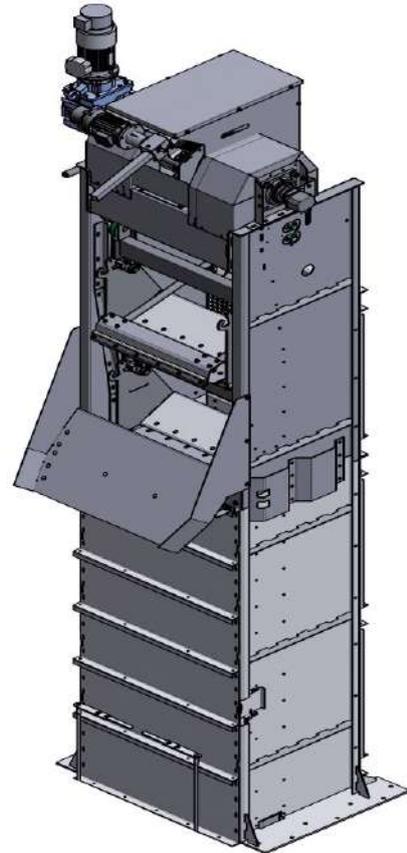
As soon as the drive is activated, the cleaning starts in order to adjust a difference in water levels which has resulted from a build-up of screenings in the bar rack. The grab cleaner is lowered to the screen bars in an open position. When it reaches the channel bottom it swings into the screen bars. During the cleaning cycle the screenings are collected, transported to

the discharge position and then pushed by the scraper device into the container, conveyor belt, etc. This screenings cleaning cycle is repeated until the difference in water levels has been adjusted. The grab cleaner then returns to the parking position above operation floor.

## Fields of operation

The Passavant® Cable Operated Bar Screen COB is not only employed in new structures, but can also be easily integrated into existing plants:

- Pumping stations
- Industrial wastewater
- Wastewater treatment plants of all sizes
- Rainwater overflows and storage sewers



COB-C

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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.