

SCRAPER BRIDGE

Leader in the design and the manufacturing of sludge treatment systems for drinking water, waste water and sludge, EMO is present in 5 continents of the globe and holds more than 2500 recommendations to its credit since the company's creation in 1985. The scraper bridge is designed to be installed in any settling tank (primary decanter or secondary decanter) with a circular form.

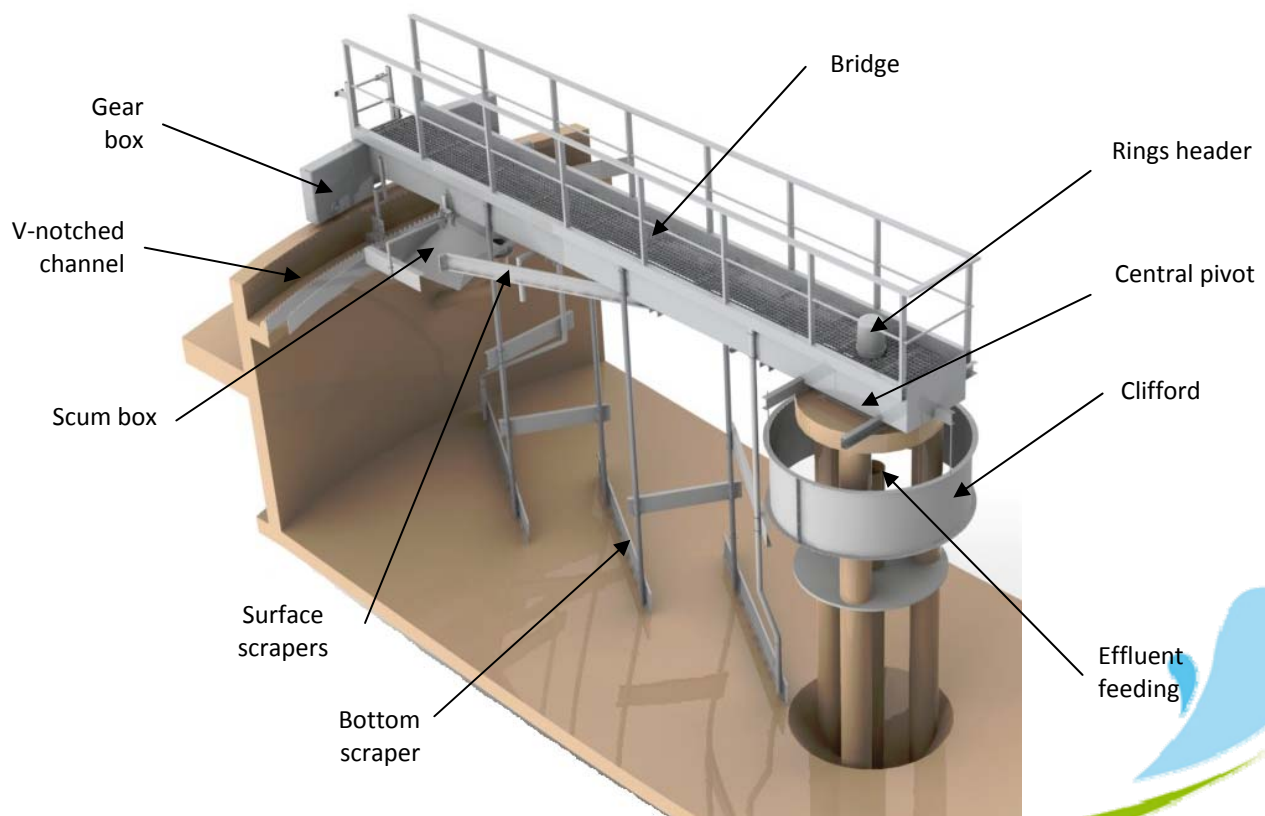
This technology is used for the treatment of municipal or industrial sludge which hold heavy materials that can be clarified quickly and where it is important to extract continuous sludge.



Operating principle

The scraper bridge EMO is composed of a hot dip galvanized beams and supports (alternative in stainless steel or aluminium upon request) on which the bottom scrapers and the surface scraper are fixed and mounted in the way to obtain a quick and easy adjustment on site.

- The effluent is fed from the center by a column in steel on concrete.
- The Clifford helps to diffuse the effluent into the tank.
- The clarified sludge, in the bottom, is pushed by the bottom scrapers toward a well at the centre of the tank.
- The effluent's circulation from the Clifford to the outer ring ensure the achievement of a constant and uniform radial flow
- The clarified sludge gets out the tank through a v-notched channel.
- A surface scraper system makes it possible to collect and evacuate the floating scums.
- The scraper bridge is situated in the central part of the equipment on a pivot, on which is fixed a rings header used to feed electrically the gear-box and the cleaning brushes (by request)



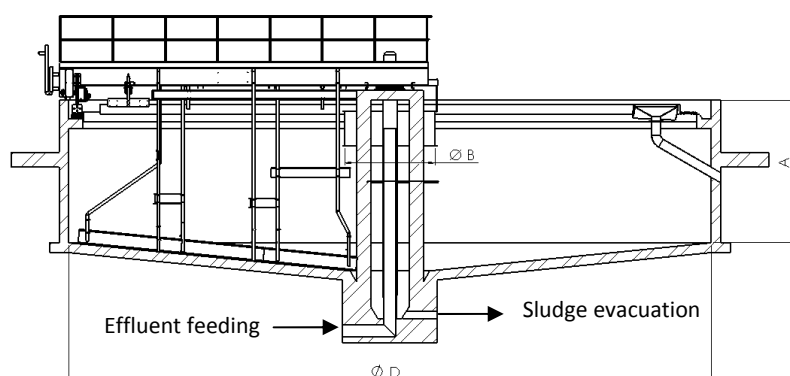
Installations



Cleaning brushes by request

Selection table

The scraper bridge Omega PR from EMO is designed to be used in clarifier tanks from 6 to 35 m of diameter.



Model	PR 6 - 12	PR 13 - 18	PR 19 - 25	PR 26 - 35
Ø d	6 a 12 m	13 a 18 m	19 a 25 m	26 a 35 m
Height A	2 to 3 m			
Ø B (clifford)	1,5 m	1,5 m	2 m	2,5 m
Clifford height	1 m			
Scum box width C	500 mm	600 mm	800 mm	1000 mm
Bridge width	800 mm			
Power	0.18 kW	0.25 kW	0.25 kW	0.37 Kw

