

07.3



CLARIFIERS

DECANTING BRIDGE FOR RECTANGULAR ENCLOSURE



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WHAT ABOUT

The DET46 DECANTING BRIDGE FOR RECTANGULAR ENCLOSURE is a unit which is mounted on rectangular concrete tanks. It consists of a walkway with reciprocating movement whose route is around the lateral walls. It is guided via wheels on rails or through a wheel-drive system with a length of nylon and front wheels. Beneath the walkway of the decanting bridge for rectangular enclosure, supports and scrapers are attached. These are there to sweep the bottom and surface of the tank.

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WALKWAY

Built from folded steel plate or structural beams, it has a tubular handrail on either side and galvanised metal grilles to walk on. The drive units which power the movement are at either end of the walkway on the decanting bridge for rectangular enclosure and flush to it.

DRIVE

It comprises a geared motor with a hollow output shaft which works on the main shaft, at the ends of which the drive wheels are mounted.

GUIDANCE SYSTEM

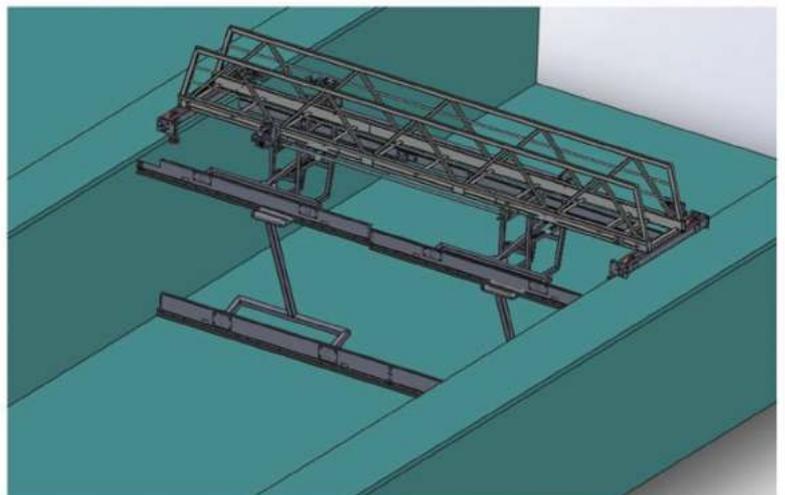
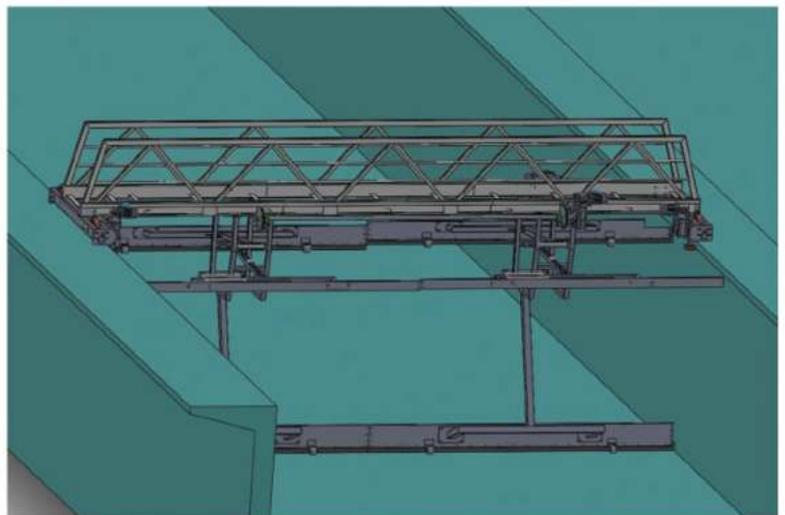
This can be accomplished via two different systems :

- Using metal rails: these are fixed on the lateral concrete walls around which their metal wheels roll.
- Using wheels with a nylon strip (RED-BAND type) which roll round the concrete wall and another set of front wheels, also with a nylon strip, which roll along the inner tank walls, focusing the movement of the decanting bridge for rectangular enclosure.

COLLECTING FLOATING PARTICLES

Collecting floating particles: This consists of a set of scrapers which, through longitudinal movement, sweep the fats and floating particles away towards one of the sides of the site where they are discharged into a hopper. The arrangement of the two scrapers means there are no blind spots. The whole unit is suspended from the walkway of the decanting bridge for rectangular enclosure. It is operated mechanically. Depending on scraper size, electric traction may also be an option.

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BOTTOM SCRAPER BOTTOM

This is comprised of another set of brackets suspended from the walkway of the decanting bridge for rectangular enclosure with scrapers flush against them to sweep the depths. Bolted onto these scrapers are some pieces of elastomer (typically EPDM) to cope with the irregularities of the bottom.

ELECTRICITY SUPPLY SYSTEM

(Can be supplied) To be installed within the enclosure and on the outside of one side of the same. Provides an electric supply to the control cabinet. Based on a retractable cable attached to trolleys moving along a metallic guide wire.

AUTOMATISM

Automatism: The manoeuvre is performed by inductive limit switches. All the electric manoeuvres performed by the unit are controlled by an electric control panel (can be supplied). It includes a torque limiter to detect overloads.

