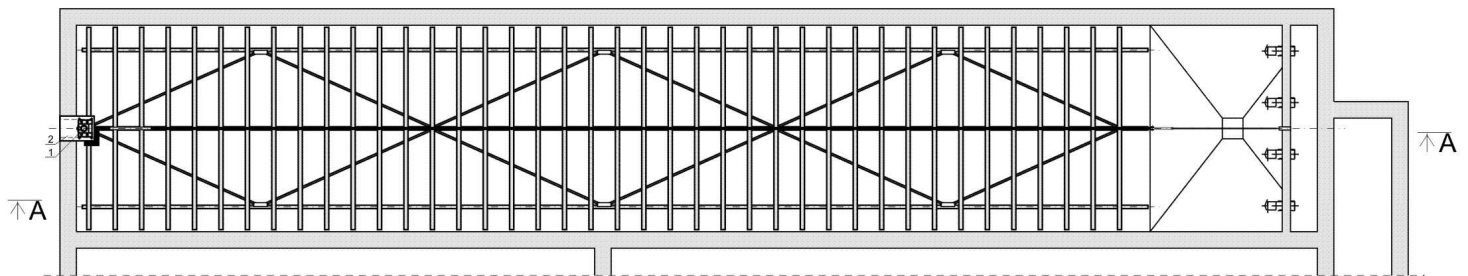
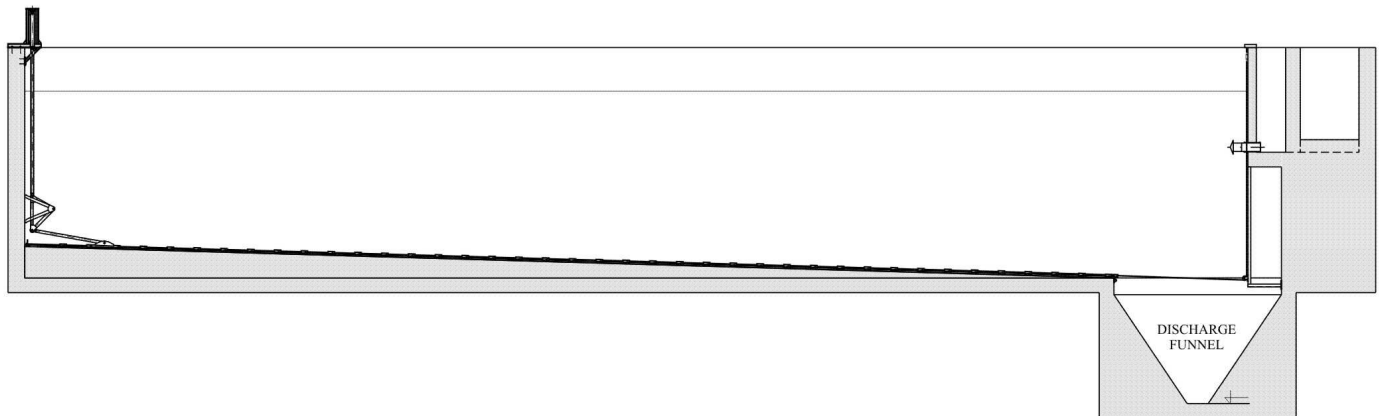


## HYDRAULIC BOTTOM SCRAPER



Section A-A

The scraper has a number of streamline profile scrapers welded together to form an integral frame which moves the bottom deposits towards the discharge funnel.



**APPLICATION:** The device is intended for use in municipal and industrial wastewater treatment facilities, e.g. in rectangular horizontal or sloped bottom sedimentation tanks, primary and secondary settling tanks, single and multi-level post-coagulation tanks or lamella plate separators.

**RANGE OF APPLICATION:** The device may be used for skimming deposits of 0.2% up to 8% content of dry matter.

**PRINCIPLE OF OPERATION:** Depending on skimmer width, the streamline profile rakes spaced at 50 up to 75 cm are welded to three or five flat bars to form a frame which moves in a reciprocating motion upon slide strips fixed to the settling tank bottom by means of stainless steel expansion bolts. The stroke length is about 60-85 cm, the return motion being two or three time faster than the forward motion. The front side of the rake being concaved, pushes the deposits across the whole tank width towards discharge funnel. On its return motion, the wedge-shaped back side of the rake slips under the deposit layer without disturbing its consistence. Some whirling action accompanying the skimming process makes the deposits thicker resulting in more uniform skimming and in increased content of dry matter in the deposits.

**DRIVE** Hydraulic or electric (the latter for sedimentation tanks area up to 100 m<sup>2</sup>)

**MATERIALS USED:** Stainless or acid resistant steel

**ATTENTION AND MAINTENANCE COST REDUCED TO MINIMUM:**

The wear and tear of the device is low due to limited number of moving parts and low loads. Sliding strips lower the friction and prevent abrasion from sedimentation tank bottom, which results in lower moving forces. The device is designed for reliable, long-lasting and trouble-free service.

**ADVANTAGES:**

Limited number of moving parts, high reliability, low operational and maintenance costs, uniform skimming action across the whole bottom of tank, sludge thickening, no disturbance of sedimentation process, easy assembly and simple operation, possible retrofitting in existing tanks, energy-saving drive and adjustable movement speed.