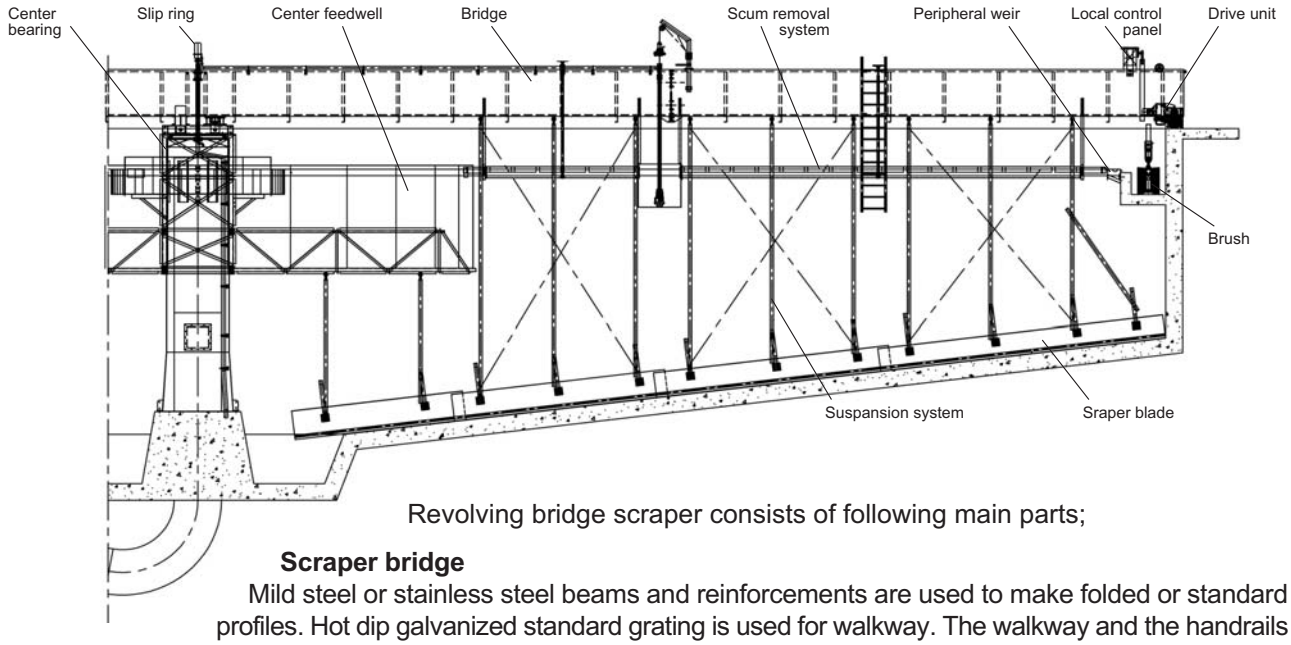
REVOLVING BRIDGE SCRAPER

Suspended solids in the influent, settle to the bottom of the settling tank and continuously revolving peripheral drive scraper bridges move the settled sludge to the central sludge hopper.
Revolving bridge scrapers are designed as cage type, folded low profile with handrail or high profile types. Their lenghts are calculated based on tank diameter and they can be half bridge, extended bridge and full bridge type. Optionally, a surface skimming unit can be installed on the bridge and move the surface scum into a scum collecting box or trough.



Revolving bridge scraper consists of following main parts;

Scraper bridge
Mild steel or stainless steel beams and reinforcements are used to make folded or standard profiles. Hot dip galvanized standard grating is used for walkway. The walkway and the handrails which are located on both sides of the bridge are bolted onto the main beam.

Central bearing
Duely sized bearings support and pivot the bridge at the tank center. The upper side of the central bearing is protected by a bolted hood. A slip ring body for electricity transferring is installed at the center.

Scraper arms
Scraper arms are made of standard pipes and are mounted on the bridge by bolts and clamps. At the lower end, the arms are fixed to scraper blades. The arms are manufactured from stainless steel, hot dip galvanized or epoxy coated steel as alternative materials.

Scraper blades
Scraper blades are made of folded mild steel, surface protected by galvanizing or epoxy coating or stainless steel and bolted to the vertical scraper arms. Replacable, 10-15 mm thick soft rubber strips are bolted on the blade edges.

Drive unit
Comprises the squirrel cage, asynchronous motor, cylinderical helicoidal gearbox and worm gear mechanism. Drive box is coupled and fixed by a moment arm to one of the two wheels rolling on the side wall of the tank. A cleaning brush is mounted in front of the wheels sweeps any obstructing objects.

Weir system
V-notch weir system is optionally included in the system. The weirs are manufactured in accordance with DIN 19558 standard unless otherwise requested differently by the client. For the system having scum skimming unit, scum baffles are also integrated to locate in front of V notch weirs in order to prevent scum excape to effuent water.

Scum removal unit
Depending on application and/or customer request, MASS offers various alternatives as scum skimmer: scum blade & peripheral scum box combination, rotating pipe, screw conveyor type.

Optional accessories:
- Electric control panel
- Electric driven brush for weir trough cleaning

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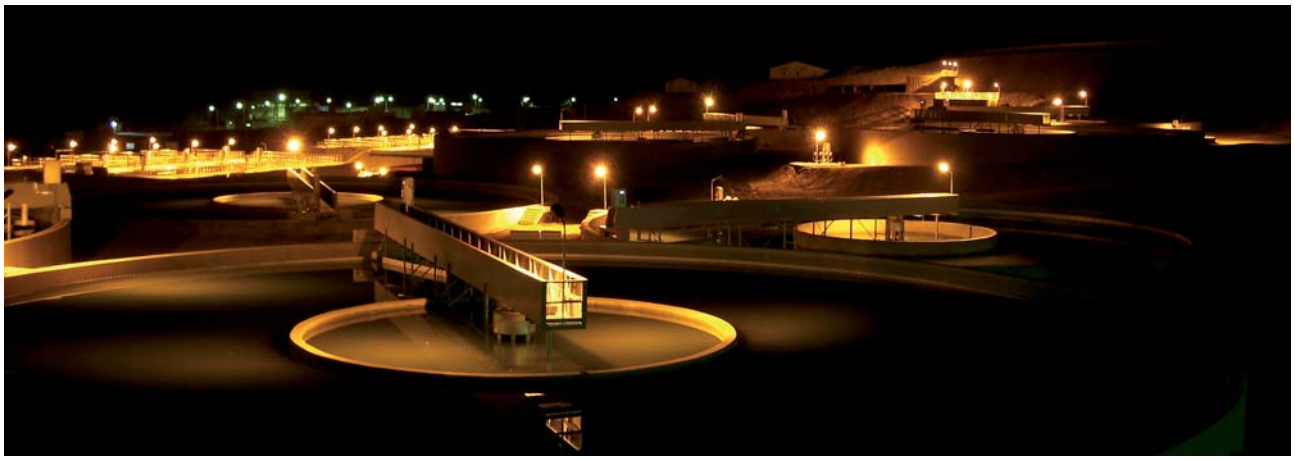

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