

SCRAPER BRIDGE – Circular Clarifiers

Continuous sludge and scum removal in circular primary and secondary clarifiers.
Four models, 20 to 120 ft tank diameter.



Hot-dip galvanized
structure



Bottom and surface
scrapers



0.25 to 0.50 HP
drive



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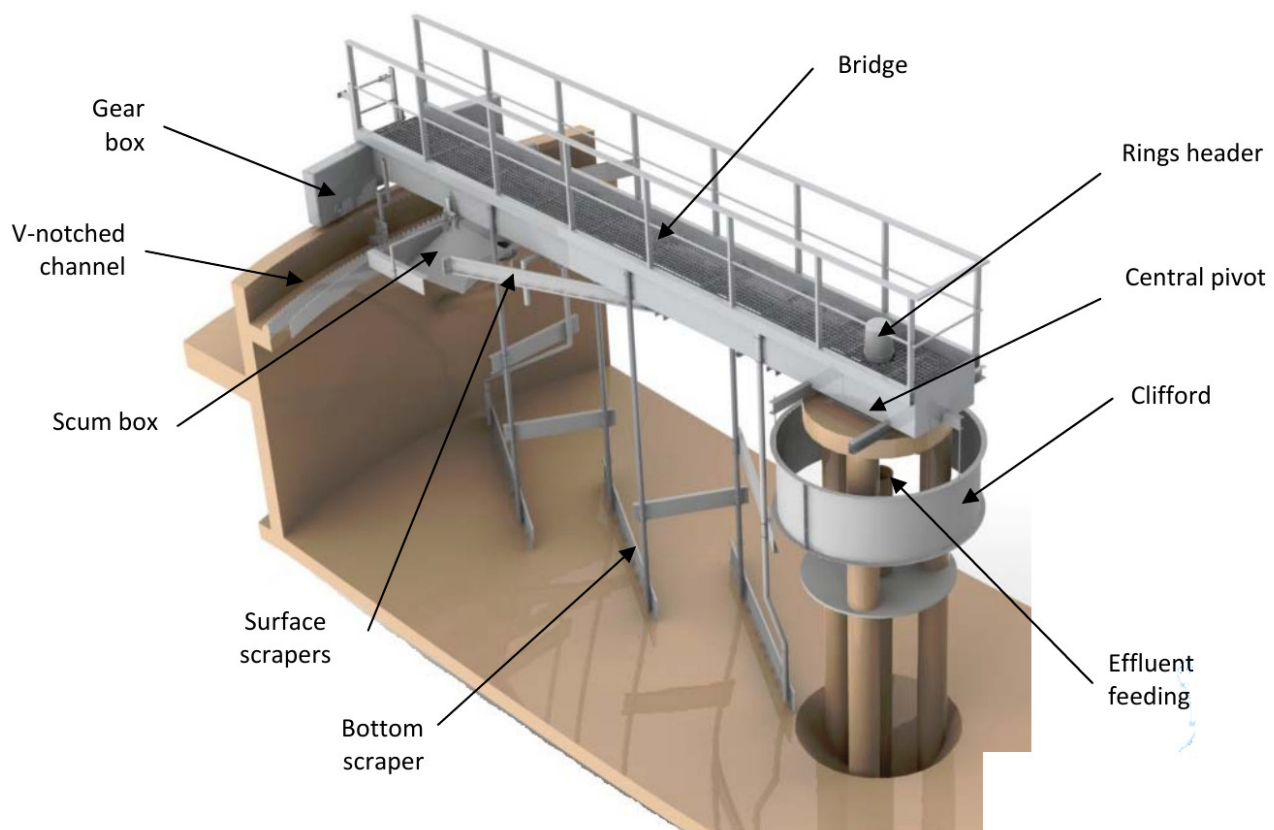


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OPERATING PRINCIPLE

The bridge carries the bottom scrapers and the surface scraper on a structure of galvanized beams and supports, pivoting from a central column. Influent is fed up the center column and spreads into the tank through the feed well.

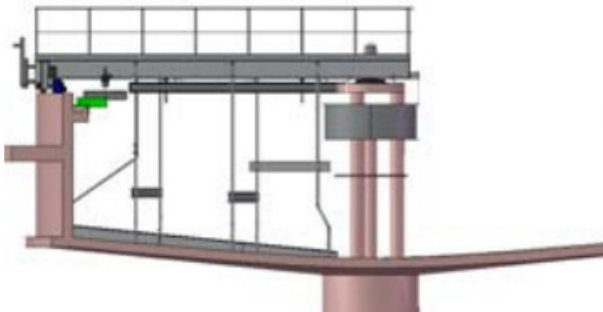
Settled sludge is swept toward a well at the center of the tank and drawn off continuously. Clarified water leaves over a V-notch weir into the peripheral launder, and floating scum is pushed into a scum box at the wall.



- 1 Center feed**
Influent rises through the center column and diffuses into the tank through the feed well
- 2 Bottom scraping**
Blades sweep settled sludge to the central well for continuous extraction
- 3 Surface scraping**
Floating scum is collected and discharged to the scum box at the tank wall

Flow from the feed well to the outer ring stays radial and uniform, which is what keeps the full settling area in service. The bridge is fed electrically through a slip-ring header at the pivot, so the gearbox and the optional cleaning brushes run without trailing cable.

FEATURES & BENEFITS



1 Galvanized structure, site-adjusted

Beams and supports are hot-dip galvanized as standard, with stainless steel or aluminum available on request. The scrapers mount to the structure so blade height and rake angle can be set quickly during installation, without shop rework.

2 Uniform radial flow

Influent enters through the center column and spreads through the feed well, so flow leaves the center evenly toward the outer ring and the settling area is used across its full width.

3 Continuous sludge removal

Bottom scrapers sweep settled sludge to a central well on every pass, which suits heavy material that settles quickly and needs to be drawn off continuously.

4 Scum collected and removed

A surface scraper sweeps floating scum to a scum box at the tank wall, so grease and floatables leave the tank instead of carrying over the weir.

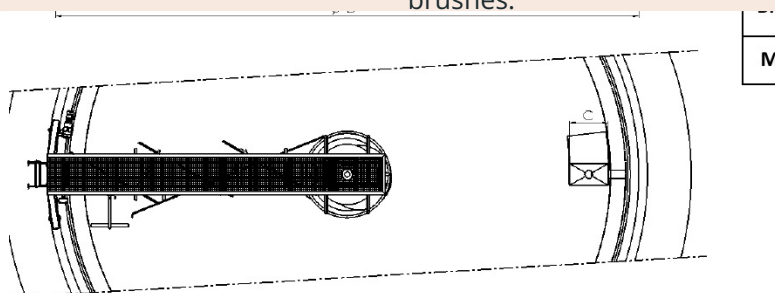


5 V-notch weir discharge

Clarified water leaves over a V-notch weir into the peripheral launder, which holds an even draw around the full circumference.

6 Low drive power

Drives run from 0.25 to 0.50 HP depending on tank diameter. A slip-ring header at the central pivot feeds the gearbox and the optional cleaning brushes.



SELECTION TABLE

Model	Tank dia. Ø d	Height A	Feed well Ø B	Feed well height	Scum box C	Bridge width	Min. power
BCS 20-40	20 to 40 ft	Up to 20 ft	5 ft	3 ft 3-3/8 in	20 in	32 in	0.25 HP
BCS 40-60	40 to 60 ft	Up to 20 ft	5 ft	3 ft 3-3/8 in	24 in	32 in	0.33 HP
BCS 60-80	60 to 80 ft	Up to 20 ft	6 ft 6 in	3 ft 3-3/8 in	32 in	32 in	0.33 HP
BCS 80-120	80 to 120 ft	Up to 20 ft	8 ft 2 in	3 ft 3-3/8 in	40 in	32 in	0.50 HP

DESIGN GUIDELINES

MATERIALS

Hot-dip galvanized steel (standard)

Stainless steel or aluminum on request

DRIVE

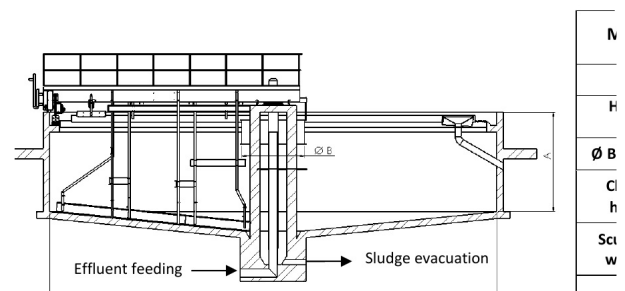
Geared drive, 0.25 to 0.50 HP

Slip-ring header at the central pivot

OPTIONS

Cleaning brushes on request

ISO 9001 certified manufacturing



Section through the tank — center feed and sludge draw-off



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Sludge equipment

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