

CIRCULAR CLARIFIERS

A range of circular rotary clarifiers based on a simple and well proven design. Used for separating suspended solids from liquid streams in water, sewage and industrial waste.

These units are available in two types, Bridge Mounted (BM) and Column Mounted (CM)

They can be supplied for new installations or retrofitted into existing concrete tank structures, and can be purpose designed to suit individual installations.

APPLICATIONS

Used both as a primary and secondary clarification in: -

- Sewage Treatment Plants
- Wastewater Treatment Plants
- Industrial Effluent Waste Streams

BENEFITS & FEATURES

- Efficient drive design means low energy cost and ensures optimum performance
- Heavy duty gearboxes result in long life
- Excellent reliability
- Fully automatic operation
- Low cost of maintenance

DRIVE DETAILS

Gearbox - Heavy Duty Worm Gearbox

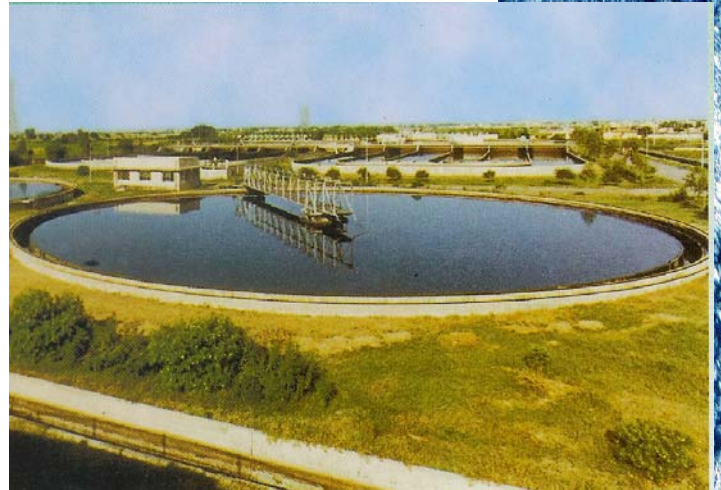
MATERIALS OF CONSTRUCTION

Mild Steel and 304 St. St.

Walkways are usually in Epoxy painted Mild Steel with scraper and underwater parts in 304 stainless steel. 316 SS can be supplied to special order.



Smaller CM Type Installation



Typical CM Clarifier Installation

CLARIFIER RANGE

The Clarifiers are available in a range of sizes to suit a whole range of applications in the waste water industry.

The **BM Range** with fixed access walkway is designed for smaller tanks up to 14.0m diameter.

The **CM Range** with rotating access walkway is designed for large tanks up to 65.0m in diameter

These Clarifiers can usually be adapted for retrofits or refurbishment projects. We offer a full site survey service for both new and retrofitting applications.

We offer a full installation and commissioning service in UK and overseas.

BM CLARIFIER RANGE

Primarily designed to meet the requirements for smaller units, up to 14.0m diameter tanks. The unit comprises: -

- Parallel beams spanning the tank support
- A motorised gearbox drive unit with overload device
- Sludge Removal Arms
- The Feed-Zone
- Motor control panel
- Fixed access walkway

The rotating mechanism comprises of a centre shaft to which the rake arms, with scraper blades, are attached. It is supported and rotated by a drive unit that includes a heavy duty worm gear motor and drive chain. The unit has a fixed access walkway extending from the outer edge of the tank to the centre.

CM CLARIFIER RANGE

Suitable for tanks up to 65.0m diameter, the CM Clarifier is supported by a centre column that carries the full operating torque of the unit. A stationary walkway extending from the side of the tank to the centre column allows access for inspection and maintenance of the drive unit.

Influent flows through the hollow centre column into the feed-zone, or from the top of the feed-zone, by means of a pipe/channel supported from the bridge.

The sludge removal arms, with scraper blades and squeegees, are attached to a centre cage that is fully supported from the rotating main gear drive.

When required either one or two surface skimmer assemblies, fully supported from the arms, can be used to sweep surface scum into a scum box.

The unit comprises: -

- Parallel beams spanning the tank support
- A motorised gearbox drive unit with overload device
- Balanced drive system
- Sludge Removal Arms
- The Feed-Zone
- Motor control panel



CONSTRUCTION & OPERATION

We can advise on the design and construction of the concrete tank, giving critical dimensions necessary for successful installation of the rotary clarifier.

We can size the clarifier units against specific flows and solids loadings.

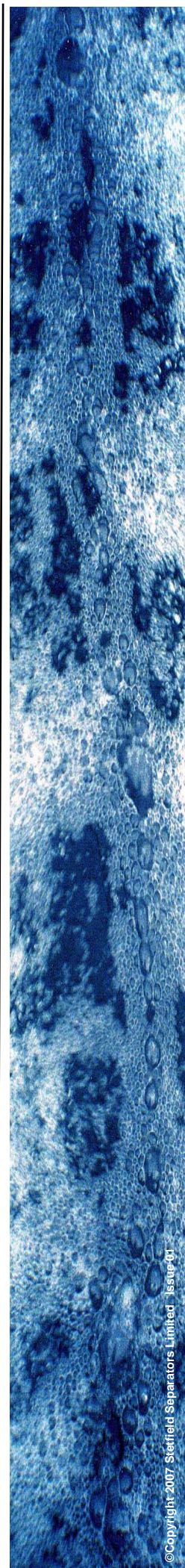
We can supply, or advise on, complete sludge removal and pumping details for transfer to the next stage.



Stetfield Separators Limited

Parkengue,
Kernick Industrial Estate,
Penryn, Cornwall, TR10 9EP
United Kingdom
Tel: +44 (0)13 2656 2635
Fax: +44 (0)13 2656 3316

Web Site: www.stetfield.com
email: sales@stetfield.com



©Copyright 2007, Stetfield Separators Limited - Issue 01