

# Copa® Circular Tank Scraper (Clarifier)



## Rotary Scraper Bridge for Circular Tanks

### Key Features & Benefits:

- High Quality Construction
- Reliable Operation
- Suitable for Primary or Secondary Clarification
- Peripheral or Centre Drive
- For use on either Radial or Flat Bottomed tanks
- Surface scum removal (optional)

### How We Create Value:

- Low Maintenance cost and minimal spares requirement
- Low running cost
- Robust design to resist sludge loads



Jacopa supplies a range of scraper bridges for all types of circular settlement tanks in diameters of up to 45 meters.

All structures are designed to withstand loads and stresses that may be placed upon the bridges, and are manufactured to the highest engineering standards for quality. All superstructures and underwater assemblies are protected to the customer's specification.

## Circular Tank Scraper Range

The most common form of circular tank scraper is the rotary half bridge design. This is mounted on a central slewing bearing supported on a tripod assembly. It is driven by an end carriage traveling around the tank's periphery.

In addition to the standard half bridge scraper,  $\frac{3}{4}$  bridge and full bridge scrapers are available plus twin and triple arm rotary machines. Small bridges are manufactured using a beam structure. Larger bridges may require a lattice or girder structure which offers strength without adding excessive weight.

All bridges are manufactured in steel and finished to the customer's specification design.

The end carriage unit incorporates a small electric motor and gearbox which drive onto the peripheral wall via a cast iron wheel fitted with a polyurethane

tyre. The unit is designed to give a peripheral speed of between 1 and 2 metre per minute.

Scraper blades are designed in a helical curve formation which maximizes scraping efficiency and thus sludge removal. Scraper blades are hinged 400 mm above the floor of the tank, providing a more effective sludge scraping mechanism.

**All rotating bridges can be fitted with any of the following types of channel cleaning systems:**

- Rotary brushes
- Pressure washers
- Chains
- Fixed brushes

## Refurbishment

Jacopa can not only supply new tank scraper bridges but can also carry out complete refurbishment of any existing scraper bridge including rectangular designs.

## Optional

Optional feature items include scum collection and removal, control panel, access ladder, access gates mesh infill panels, weir plates, scum boards, McKinney baffle, Stukenberg baffles, EDI Drums, Auto Lubrication, and GRP Launder. A full installation, and commissioning service is available, along with removal of redundant scrapers.



# Copa® Circular Tank Scraper (Clarifier)



**Half Bridge Rotating Scraper**



**Fixed Central Drive Scraper Bridge**



**Stukenberg Baffle**



**Rectangular Scraper**



**Rotating Full Bridge Scraper**



**McKinney Baffle with EDI Drum**



