



Solids Separation

RELATED PRODUCTS

CONE BOTTOM
TANKS



MIXING
TANKS



Polymaster

Polymaster has many customisable solutions available for sludge thickening and sludge clarifying applications.

Having been involved with the handling of sludge for Mining, Food & Beverage, Water Treatment and general industry projects, our project engineering team has experience across many industries.

Polymaster works closely with process engineers to develop and design solutions that are specific to the project. Utilising the full range of tanks, Polymaster can provide a customised & engineered solution for sludge processing and solids separation.

CONE BOTTOM TANK DESIGN

The most efficient range of tanks for solids separation are Cone Bottom Tanks. Polymaster's Cone Bottom Tanks have been designed with a 50-degree cone for effective separating of solids from the liquid. This steep cone base allows for easier dispensing of concentrated sludge from the base of the tank.

TANK MODIFICATIONS

Tanks can be modified to accommodate almost any application and design for dealing with sludge.

Common assemblies installed within sludge tanks include:

- Tundish Overflows
- Stilling Wells
- Baffles
- Sample points on side of tank

TYPICAL SLUDGE TANK ASSEMBLIES

CONTINUOUS PROCESS



- Stilling well for minimum disturbance
- Tee piece outlets – cleaner water

BATCH APPLICATION



- Multiple outlets for sampling



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Related projects



Winery, Barossa Valley

CLIENT REQUIREMENT

A world-leading winery in the Barossa Valley, crafters of ultra-premium wines, worked in conjunction with consulting engineers, to find out the best way to separate sludge from their wastewater streams and increase the volume of water they are able to recycle.



SOLUTION PROVIDED

Polymaster was able to increase the winery's efficiency and volume of recycled water captured by internally modifying a cone bottom tank. Complete with internal stilling well, tundish overflows and a design to avoid catching floating objects, made this a highly efficient and cost-effective solution. Cost-efficiencies were gained with more recycled water harvested and less contaminated waste disposed of.



Truck Wash Facility, Melbourne

CLIENT REQUIREMENT

A major distribution centre in the northern suburbs of Melbourne went through the process of upgrading and installing a new truck wash facility. The design and engineering team for the truck wash system, partnered with Polymaster to design the process tanks. With the high volumes of water and constant use of the truck wash, efficient solids separation system was needed to ensure the maximum amount of clean water could be recycled.



SOLUTION PROVIDED

Being a truck wash, there are large amounts of grit and dirt solids in the recycled water that need to be removed before re-using. Polymaster's Silomaster range of cone bottom tanks was utilised for the project - the steep 50° cone provided an effective method for capturing the solids. Multiple cone bottom tanks were joined together to handle the high volume of water. Internal pipework was installed to direct the flow in the tank and make the recycled water as clean as possible.



Mobile Sludge Processing Tanks

CLIENT REQUIREMENT

A national hire company partnered with Polymaster to design and engineer suitable cone bottom sludge clarifiers to be used as part of their mobile wastewater treatment plants. These systems are designed to help contractors treat contaminated ground water onsite. They required the flexibility of being able to deploy these mobile systems to site quickly and remove them when they are no longer needed.

SOLUTION PROVIDED

All equipment deployed to the site needed to be suitable for the highly demanding and harsh environment on construction sites. Polymaster was able to meet these standards with custom modified Sludge Clarifiers. The modifications required a heavy-duty framework for protection during use and transportation, and special design elements for safe operation onsite. Some of the unique engineering features included a frame that allowed the tall Sludge Clarifiers to be laid horizontal for transport, single point lift on all equipment, provision to lift with forklifts, custom brand colouring of products and custom pipework and valves.



“It was a pleasure working with everyone at Polymaster, they made us feel like we were their only priority with everyone concerned keeping us informed at every step of the process, right up to and including delivery. Polymaster are a very professional organisation and I would have no hesitation in recommending them to other organisations in the future.”

Vincent P, Operations Manager

→ 1300 062 064
→ industrial.polymaster.com.au

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