

Oil Screening Tank

Oil Clarification and Buffer storage



The Screening Tank is used to pre-screen crude oil from the Presses, containing up to 10% solids (Fots), prior to filtration or clarification in a decanter. The Tank is sized to typically provide 30 to 60 minutes settling time and buffer storage.

Separation is carried out on a wedge wire screen fitted across the top of the tank. The oil-solids mixture is deposited either directly onto the screen or into the body of the tank, depending on the plant layout. The solids are dredged from the bottom of the tank and dragged across the screen by a simple chain and slat mechanism. The oil passes through the screen and back to the tank, whilst the solids are conveyed by the slats to an in-built discharge conveyor and removed for further processing. The screened oil is decanted from the top of the oil reservoir and pumped away for subsequent final clarification.

Features & Options:

Flexible Layout and Installation:

- The position of the inlet, oil outlet, overflow, GMU and manway can be altered to suit the Mill Layout. (Certain constraints on dimensions will apply, consult Rosedowns for advice on installation).
- Suitable for use with Pressure Leaf Filters or Decanter Clarification Systems.

High Reliability:

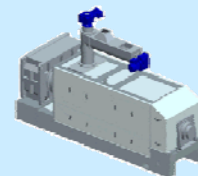
- The Self-cleaning Wedge Wire Screen ensures efficient drainage of the solids and eliminates the need for regular cleaning of the Screen.
- Few moving parts and simple proven Chain and Scrapers ensures trouble free operation.
- To allow for increased quantities of solids being placed on the screen, larger tanks have a longer drainage time.

Maintenance Friendly:

- Our Tanks have been designed from the outset to give good access for maintenance. A Ø600mm manway is fitted as standard in a suitable position dependant upon Mill Layout.
- Scrapers and Runners are simple to replace if they become damaged.

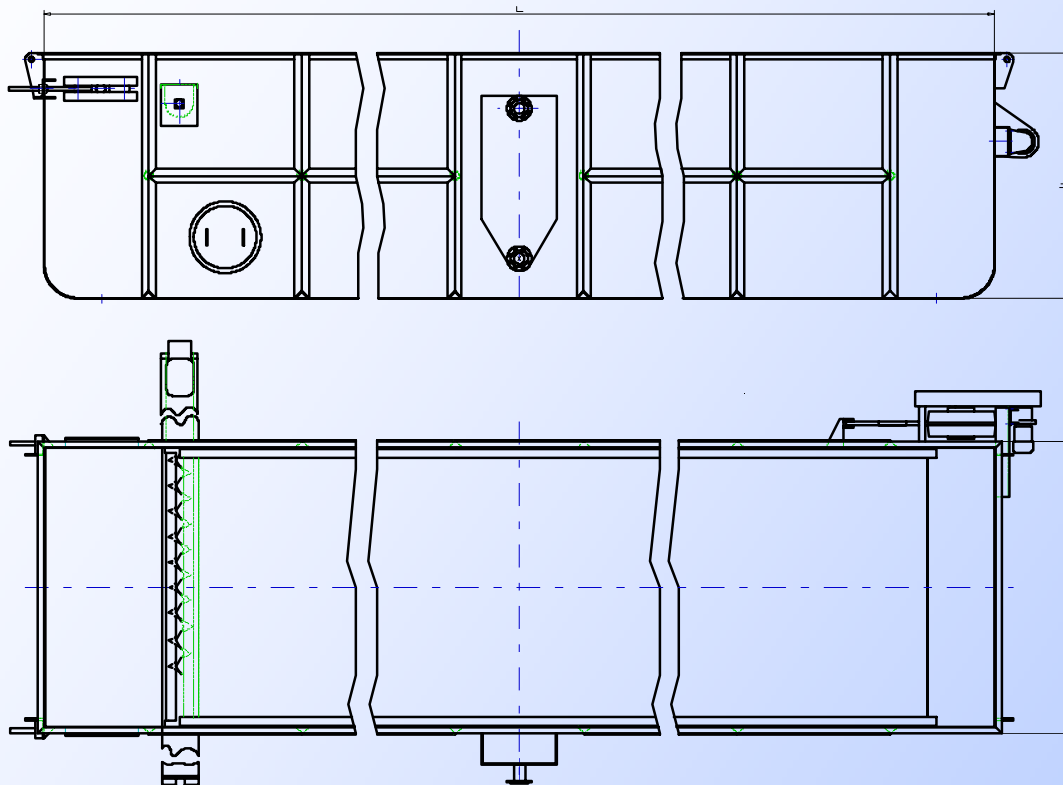
Fully Enclosed System:

- For Operator safety, to preserve the oil quality and to prevent the emission of vapours that can contribute to an odour problem the tank is supplied fully covered.



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Outline Dimensions & Details :

Unit Size:	5 Tonne	10 Tonne	15 Tonne	30 Tonne	45 Tonne
Typical Duty: (Seed Intake)					
Full-Pressing (TPD):	150-300	500-750	750-1000	1500-2000	2500-3000
Pre-Pressing (TPD):	300-500	750-1000	1000-1500	2000-3000	3000-5000
Overall Size:					
Length (L) :	3.0 m	5.3 m	7.8 m	8.5 m	11.5 m
Width (W) :	1.5 m	1.5 m	1.5 m	2.5 m	2.5 m
Height (H) :	2.0 m	2.0 m	2.0 m	2.15 m	2.15 m
Weights:					
Shipping :	2,000 Kg	2,900 Kg	4,000 Kg	5,500 Kg	7,000 Kg
Normal Operating :	4,800 Kg	7,900 Kg	11,200 Kg	18,500 Kg	25,000 Kg
Full to Over spill :	7,900 Kg	13,200 Kg	19,000 Kg	38,600 Kg	51,900 Kg
Operating Parameters:					
Drainage Area :	1.7 m ²	4.8 m ²	8.2 m ²	15.5 m ²	22.4 m ²
Drainage Time :	0.6 mins	2.2 mins	2.8 mins	3.1 mins	4.5 mins
Drive:					
Installed Power :	0.75 KW	0.75 KW	0.75 KW	1.1 KW	1.1KW