

ROSEDownS

FOOTS **RECOVERY** TANK



**SEPARATING SOLIDS
FROM THE CRUDE PRESS OIL**

RoseDownS is a proud part of the global Desmet organisation

The screening tank is used to pre-screen crude oil from the presses, containing up to 10% solids (foots), prior to filtration or clarification in a decanter. The tank is sized to typically provide 20 to 30 minutes settling time and buffer storage.

Features & Options

Flexible Layout & Installation

The position of fittings and connections can be altered to suit the Mill Layout. 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. Simple proven chain and scrapers ensure problem free operation.

Maintenance Friendly

RoseDowns tanks have been designed to provide easy access for maintenance.

Fully Enclosed System

The fully enclosed system is designed for operator safety, reduction of vapour emissions and the preservation of oil quality prior to further processing.

Certain constraints on dimensions will apply, please consult RoseDowns for assistance and advice on installation.

FOOTS RECOVERY TANK

Main Advantages

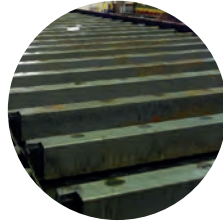
- **Foots (solids) are removed from the oil to aid the filtration process.**
- **Reduces the cost of expensive final separation equipment.**
- **Continuous process for plant efficiency.**
- **Very low residual fines found in the oil exiting the foot tank.**
- **Low operating and maintenance costs.**

ROSEDOWN'S

global solutions provider
of presses & parts for
oilseeds and rendering



1 Wedge Wire Screen
Self-cleaning
wedge wire.



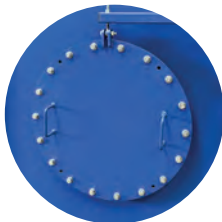
2 Scraper Slats
Heavy Duty slats lift the solids
from the tank and draw them
across the drainage screen.



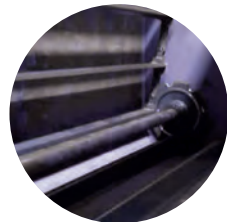
3 Oil Inlet Chute
Large inlet capacity.
Externally flanged.



4 Manways
Easy access for
internal inspection
and maintenance
of the tank.



5 Sprockets & Shaft
Easily removable
from both sides
of the tank.



OPTIONAL INSTRUMENTATION

Easily incorporated into the plant PLC

Rotation sensor

- This is to indicate no blockages in the foots outlet conveyor and is working correctly.



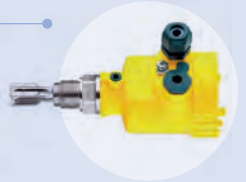
Level Transmitter (calibrated 0-100%)

- Gives percentage fill of the tank;
- Utilised in oil cleaning automation.



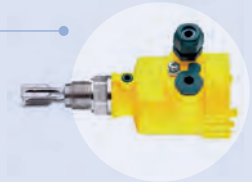
High level Indicator

- Stop the production of oil;
- Gives warning of potentially overflowing of oil;
- Backup against failure of level transmitter (if fitted).



Low level Indicator

- Stop the operation of the Discharge Pump to prevent damage;
- Indicates/warning of low tank level;
- Backup for level transmitter (if fitted).



Proximity sensors

- Used to check the slats and chain are still running.

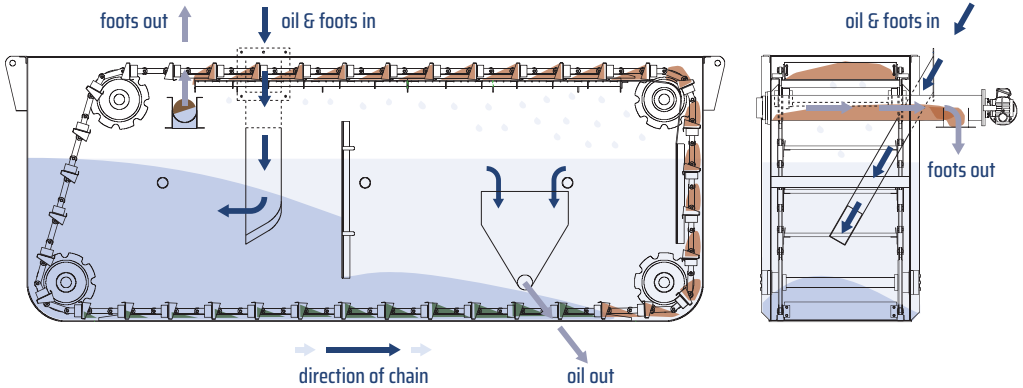


Non contact switch

- Auto cut off on the foots conveyor access door;
- Potential blockage on conveyor system.



TECHNICAL SPECIFICATIONS



Tank Size (Tonne) 5 10 15 30 40

Duty (Oil Production)					
Tonnes / Day	75 - 225	200 - 400	375 - 750	725 - 1,450	1,075 - 2,175
Tonnes / Hour	3 - 9	8 - 17	15 - 30	30 - 60	45 - 90
Duty (Seed into Plant)					
Full Pressing (TPD)	125 - 450	200 - 800	325 - 1,300	625 - 2,500	950 - 3,750
Pre Pressing (TPD)	375 - 750	750 - 1,500	1,125 - 2,250	2,250 - 3,750	3,375 - 5,625
Overall Size					
Length (m)	5.1	8.1	8.1	8.9	12.3
Width (m)	1.5	1.5	2.0	3.0	3.0
Height (m)	2.5	2.6	2.6	2.6	2.6
Weights					
Shipping (Kg)	3,500	5,180	6,100	8,700	11,400
Normal Operating (Kg)	6,700	11,300	15,400	25,900	35,450
Maximum (flooded) Weight (Kg)	11,200	18,750	26,700	46,650	64,500
Operating Parameters					
Drainage Area (m ²)	2.5	5.0	8.0	16.0	24.0
Drainage Time (mins)	1.2	2.4	2.4	2.7	4.1
Drive					
Installed Power (kW)	0.75	0.75	0.75	0.75	1.10

All dimensions are approximate. We reserve the right to alter the specification at any time without prior notice.

PRESSES AND PARTS FOR THE OILSEED AND RENDERING INDUSTRIES

A BUILDING ON
A LEGACY

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