Landfill Application

- Deliver constant flow independent of varying heads.
- Can pump over a long distance efficiently consuming less motor power.
- Easy to operate and maintain.





Despatch Oil

- Gentle pumping ensures that the oil quality remains unaffected.
- Constant flow against varying suction head.
- Can be used for tank bottom sludge as well.
- Can pump over a long distance efficiently consuming less motor power.

ROTO PUMPS (MALAYSIA) Sdn. Bhd.

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since 1968

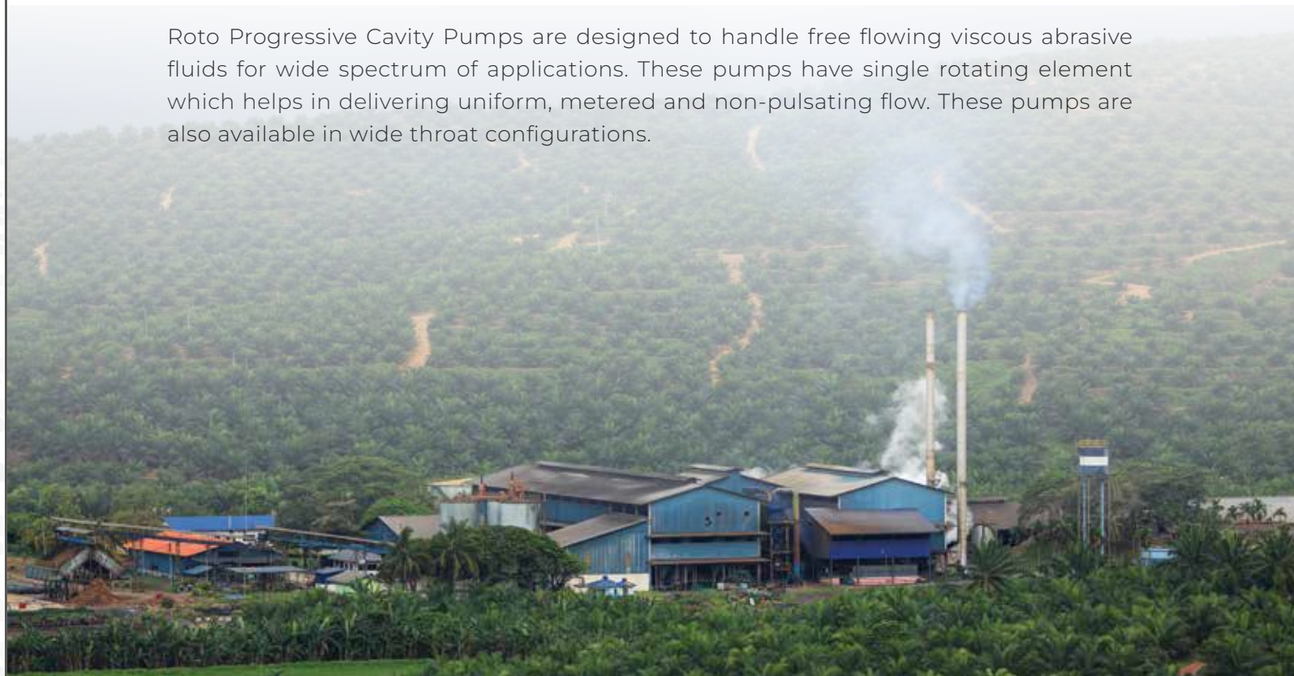
WE COMPETE WITH ONLY ONE PUMP

HIGHLY EFFICIENT
PROGRESSIVE CAVITY PUMPS
FOR MOST CHALLENGING PALM OIL APPLICATIONS



Flow – Up to 500 m³/hr I **Pressure** – Up to 48 bar I **Viscosity** – Up to 3,00,000 cSt

Roto Progressive Cavity Pumps are designed to handle free flowing viscous abrasive fluids for wide spectrum of applications. These pumps have single rotating element which helps in delivering uniform, metered and non-pulsating flow. These pumps are also available in wide throat configurations.



Features

- Positive Displacement Pump – Because of single rotating element, progressive cavities are formed which deliver uniform, metered and non-pulsating flow.
- Inherently self-priming and does not require a foot valve even in horizontal configuration.
- Non-clogging – Can handle highly viscous liquids with solids in suspension or having high percentage of solids.
- No Vapour Lock – Can handle entrapped air / vapour / gas without any fear of vapour locking.
- Low NPSH (R) & High suction lift capability of up to 9mwc.
- Flow is directly proportional to Speed and is constant against varying head.
- Low internal velocity – can handle shear sensitive fluids.
- Single stuffing box – easy to maintain.
- Reversible – Provides flexibility in operation. Perform efficiently in both directions with little adjustments.

Roto Advantages in Palm Oil Applications

Crude Palm Oil Transfer from Oil Tank to Vertical Clarifier

- Gentle pumping ensuring low shear - Minimal emulsification of oil laden water thus increasing the separation efficiency which leads to easier and faster separation of oil from water.
- Reduced OLWB at both Underflow and Waste Stream from the Sludge Centrifuge.
- Improved OER which can result in to direct financial gains.
- ROI of less that 2 months from both CAPEX and OPEX perspectives of the equipment.





Pumping Skimmed Oil from Sludge Pit

- Cutomised vertical pumps available as well for easier installation and maintenance.
- Can handle the skimmed oil without any emulsification thus facilitating easier separation.
- No necessity for Priming Tank / Foot Valve even in horizontal configuration.
- Can handle entrapped air / vapour / gas without any fear of vapour locking.

Pumping POME from MRE Sump to Anaerobic Lagoon

- Gentle / low shear pumping ensures that the biological microbes present in POME are not sheared thus ensuring an efficient and stable treatment of POME during the anaerobic phase.
- Eliminates sedimentation of lagoons by efficient pumping of solids along with the liquid.





De-Sludging

- Can handle thick slurries without any fear of clogging.
- Can be supplied as a mobile unit for ease of operation.
- Cost effective as compared to the conventional desludging methods like using the excavator.

Bio Sludge

- Can handle wide consistency of sludge.
- Gentle handling ensures that the biological stability of the process is efficient.
- Can be installed horizontally without any foot valve which often gets clogged thus reducing maintenance.

