



Complete Solution for

Slop oil treatment and sludge recovery





Slop Oil Turns Into Profit

"Slop oil" or "oily sludge" are waste oil and sludge produced in both upstream and downstream processes.

This Oil Consists of Processes or Residues Such as:

- Tank bottoms
- Marpol sludge
- · Desalter of spec products
- Bottom sediments from API separators
- Lagoons and oil pits
- · Oily sludge from DAF units

Many of these resources contain a high percentage of oil that can be recovered as valuable products; the economic and environmental contribution of reduced waste volumes should not be overlooked.

Slop oil can vary in composition, containing anywhere between 10% and 70% oil, 30% to 90% water, and 5% to 20% particles. The viscosity of oil can reach levels as high as 1000 cSt/50°C. This trash is costly to dispose of for the oil industry because it is both environmentally harmful and difficult to transport. Due to this, there is a great need for services that can effectively handle oily sludge.

Slop oil treatment additionally adds value by recovering hydrocarbons that would otherwise be lost.

Solution for Slop Oil Recovery by Polat Makina

Polat Makina has created a system to recycle oil in an ecofriendly way as an alternative to the expensive disposal of slop oil. The benefits for our clients include the creation of value through the 80 to 95% recovery of saleable hydrocarbons and the decrease in overall disposal costs.

Combining mechanical separation in phases with heating and chemically enhancing the separation effect is the scientific way to extract precious oil while minimizing its environmental impact.

Each slop oil system might have its unique process solution dependent on the feed product composition and the specific requirements.

Due to the various types of slop oil, Polat Makina disk-type and decanter centrifuges are both used. When the amount of solids in the feed exceeds 2% of the overall volume, decanters are typically used. The self-cleaning disk-type separators in the downstream process are responsible for polishing the water or oil phase.

Three-phase single-stage decanter centrifuges are the preferred option if the feedstock material possesses characteristics that allow dewatering (sludge removal) with simultaneous oil and water separation in one stage to be processed efficiently.

A 2-stage treatment becomes a more practical process solu tion when the feedstock is more challenging to treat or when specifications for the oil quality are more stringent.

The ultra-fine particles are separated by the high-speed disk stack machines processing the decanter centrate phase while simultaneously removing the most water possible.

Polat Makina also possesses the know-how to offer the more sophisticated 3-stage treatment procedure with an additional treatment stage for water purification (de-oiling of water phase). For processes or areas where water treatment is necessary, this can be an alternative.

All-in-One Solution with the Technology of Polat Makina

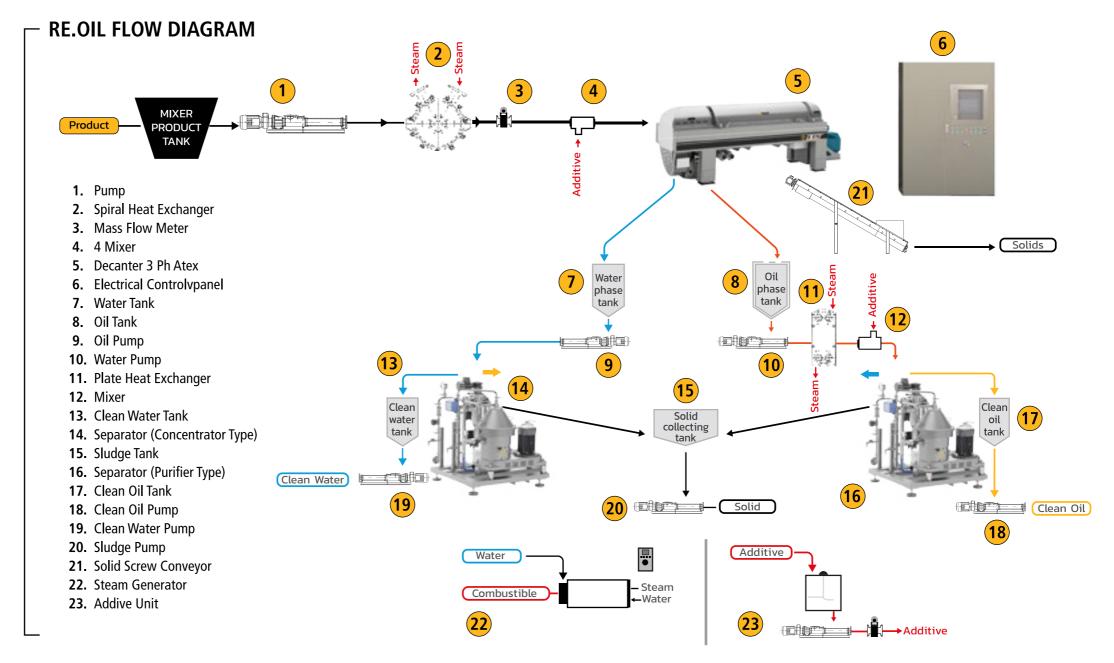
The Polat Makine R&D Center assists in the creation of innovative processes at the specific request of a client or in accordance with our own market research. Through a series of internal pilot tests, laboratory evaluations, and on-site machine or prototype evaluations, our creative solutions are continuously tested and validated. They are only then made available as market-ready.

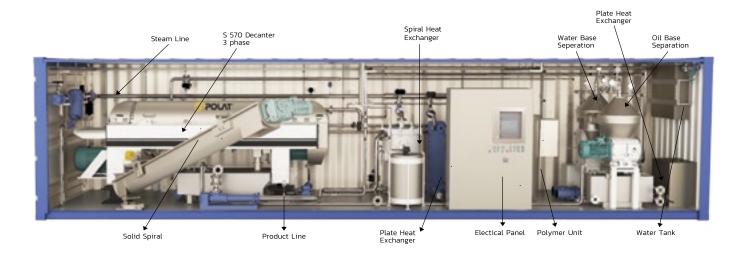
Processes With High Productivity Coming From Our:

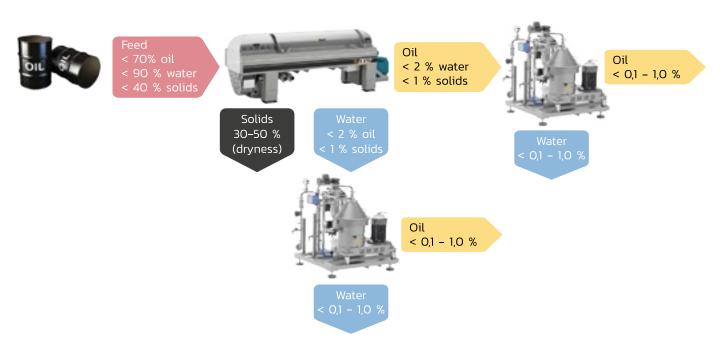
- · Competence and unmistakable accountability
- · Trustworthy communication and planning
- Barrier-free optimal plant and process configuration
- High degree of functionality and dependability of investments
- · Process safety

POLAT Scope:

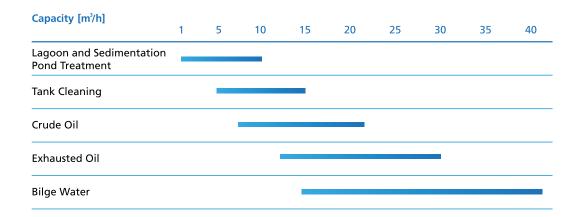
- · Mobile solution
- · Dosing units and utility stations
- · Heating and pumping
- Fully controllable system
- Pre-treatment
- · Hazardous areas design



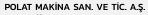




The effective flow rate is linked to the real condition of the product and the system







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