Global Insight
TECHNOLOGIES

TECHNOLOGIES UNDER ONE ROOF

COMPANY PROFILE Vol. 1

GLOBAL INSIGHT TECHNOLOGIES, INDIA

GLOBAL INSIGHT TECHNOLOGIES is an Indian based company providing solutions for Project Concept, Planning and Execution and installation of food processing, Dairy & dairy product, Edible Oil Filtration, Beverages product, Juice & Concentrates, Refinery, Evaporator, Dryer, Distillery, Fermentation, Pharmaceuticals, Boiler & Solar industries. More concern on process flow &layout, comparative analysis of technical and financial machinery selection and procurement, utilization of resources and execution planning. Quality control, Implementation of specification standard. Consulting of manpower training on process engineering of the product. We also provide professional custom solutions using our enormous experience in food processing & solar system development. Components for integration into larger business. All our Experience is based on the new concepts in technological processing such as print-on-demand of dynamic solution.

Company was promoted in the year 2019.The foundation was laid by **Mr. S. K. Chikane** . We are service provider for multiple industries. (Mechanical Engineer & Electrical/Instrumentation Engineer) .

We are committed to provide our services on time & within specified quality, quantity.

OUR STRENGTH

GLOBAL INSIGHT TECHNOLOGIES has a varied experience of dealing in various types of Food and Refinery Related Technical Solutions.

Our team can cater to every requirement for seamless Erection and Operation of a plant. Solutions provided by **GLOBAL INSIGHT TECHNOLOGIES** include:

- Process
- Mechanical
- Instrumentation
- Electrical
- Human Resource Management & Training
- Safety Procedures
- Legal Documentation

OUR SERVICES:

ENGINEERING: The primary stage of our Turnkey Projects begins with basic designing. We take the requirement of the client and forge the same with our engineering knowledge and lay down a platform for the next steps. Documentation such as PID, 3D Drawings, Layouts, etc. is made.

PROCUREMENT: Following the approvals of our drawings, our procurement and purchase teams absorb data from our Engineering and Designing platforms.

INSTALLATION & COMMISSIONING: Once the material is in its place, we proceed to erect the plant and commission the same for you. Our engineers assist you till your first appropriate production. We can also train respective staff from operators to managers for execution of the plant.

UPGRADATION & MAINTENANCE: OGM ENGINEERING ENTERPRISES is also equipped to enhance the performance of your already present plant. We can expand the plant in terms of volume to increase the capacity dealt with. We can also provide smart solutions to improve the performance in terms of automation abilities of the plant.

Fabrication and Installation of WO&G pipelines, Process pipelines, Instrument pipes & Tubes. Insulation of Pipelines.

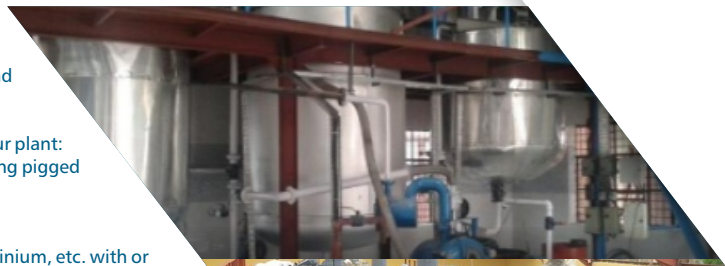
Assembly and Installation of Electrical control panels. Instrumentation panels.

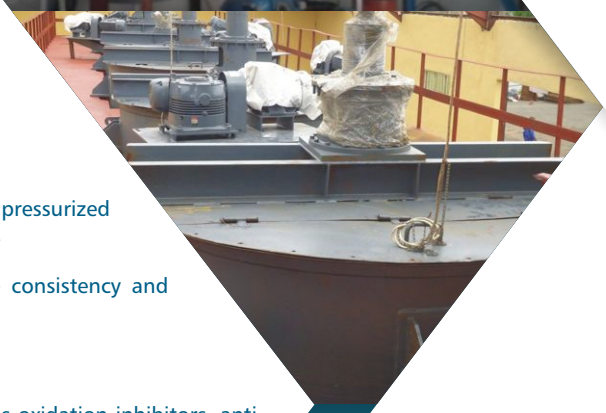
Equipment Erection & Supply of Technical Labor.

GREASE MANUFACTURING PLANT

Global Technologies designs greases manufacturing units meeting your specific needs. These units integrate saponification reactors offering excellent performance in terms of mixing, thermal transfer, easy cleaning and maintenance.

They also include satellite solutions conferring flexibility and modularity to your plant: in-line dosing (flow meters, loss-in-weight), transfers of finished products using pigged lines and production monitoring systems.





Application:
All types of grease - simple, complex or mixed – lithium, lithium/calcium, aluminium, etc. with or without additives.

BATCH MANUFACTURING PROCESS GREASE PLANT

The batch greases manufacturing process includes the following phases:

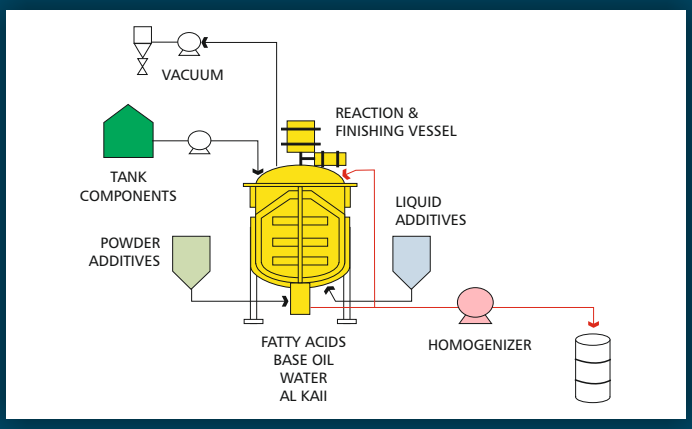
- Metering and addition of reactants (fatty acids, base oil, water, alkali),
- Saponification run in a reactor/kettle operating at atmospheric pressure or as a pressurized kettle to convert the fatty acid to soap and disperse the soap throughout the mixture,
- Dehydration to remove the reaction water,
- Homogenization or milling to break agglomerated particles, adjust the grease consistency and produce a smooth and stable product,
- Cooling
- In-line de-aeration to remove air entrapped prior to filling.

To add special properties to the grease, other ingredients may be introduced, such as oxidation inhibitors, anti-corrosion and anti-wear agents. This additivation step is completed in a finishing kettle where the de-aeration of the product may be complete.

Applications:
All types of industrial grease: simple, complex or mixed, e.g.:
- Lithium, lithium-calcium, etc.
- With or without additives

Benefits:
- No grinding required!
- High dispersion and thermal yields!
- Easy cleaning
- Excellent repeatability and quality control
- Quick payback

PLANT OVERVIEW

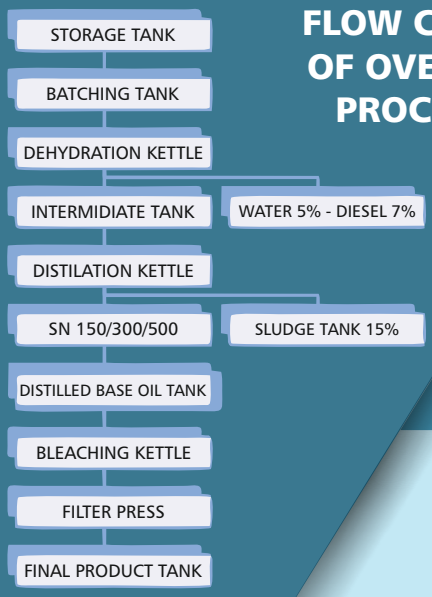


PROJECTS & TECHNOLOGIES

Small amount pure lubricating oil can pollute major amounts of water eg: groundwater as well as the land on which it is spilled. Used engine oil itself contains a number of additives and is contaminated by impurities and residues resulting from the combustion process. Some of them are poisonous and carcinogenic like lead and PAH (poly-aromatic hydrocarbons). Also, the oils used in transformers contains PCBs (poly-chlorinated biphenyls), which are highly carcinogenic as well. From various sources such kind of used lubricating oils are generated and are disposed improperly. The burning of used oil in kilns and incinerators produces lots of ash and carcinogens causing environmental pollution. Waste lubricating oil is a resource that cannot be disposed of randomly due to the presence of pollutants. In response to economic problems and environmental protection, there is a growing trend to regenerate and reuse waste lubricants. By proper recovery and refinement of it, a lot of valuable product can be obtained. The objective of re-refining is to remove the degraded additives and contaminants and to restore the properties of the oil identical to the standards provided by SAE (Society of Automobile Engineers).

USED OIL RE-REFINING PLANT

FLOW CHART OF OVERALL PROCESS



BENEFITS OF RE-REFINING USED OIL AND USING IT

Without a doubt, it will be widely accepted for Waste oil to be made fit for use again than to dispose it on the earth, polluting everywhere with it! This will reduce wastage, and also be of great benefits to the environment. Recycled Waste Used the motor oil can be re-refined into new Virgin oil or Base Oil processed into fuel oils and used as raw materials for the petroleum industry.

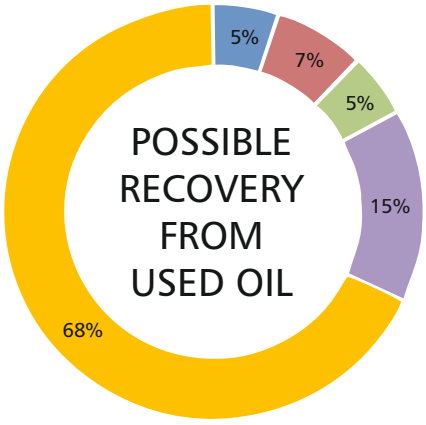
Used oil must be managed properly by local waste management authorities or automotive repair shops to prevent contaminating the environment. Used oil filters pose similar waste concerns. If properly drained, they can be safely recycled or disposed of.

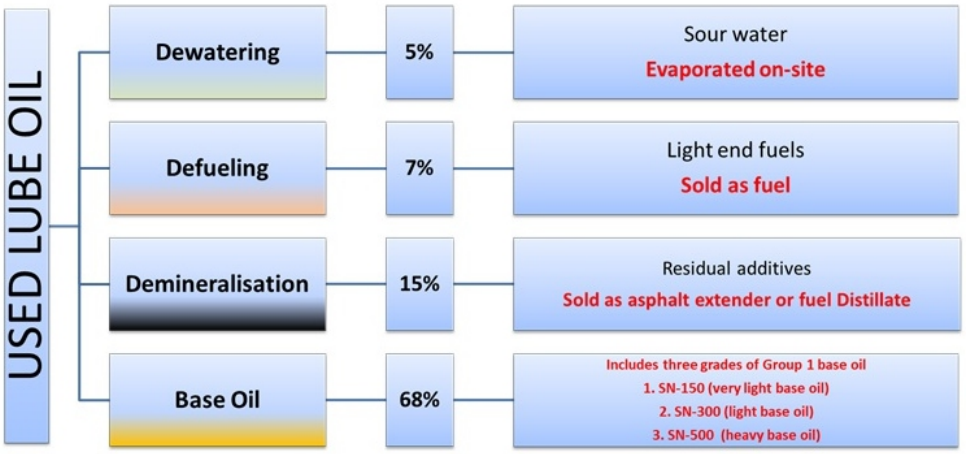
Here are some of the many reasons to recycle Waste Used Oil and use it again.

- Waste Used Oil pollutes Soil and Water, recycling it and making it fit for use stops it from doing so.
- Motor oil is a very valuable resource because it does not wear out. What happens to it is that it gets dirty and contaminated during use. Hence, recycling it saves a valuable resource.
- Producing base stock directly from crude oil consumes a lot of energy, but to produce re refined base stock requires quite lesser energy.
- Re-refined Oil works as perfectly as virgin Oil would. One gallon of used motor oil provides the same 2.5 quarts of lubricating oil as 42 gallons of crude oil.

We make use of the Wiped Film Evaporator (WFE), a Short path distillation, followed by Solvent extraction or Mild Hydrofining finishing process involved for the recycling (Re-refining) of Used/Waste Lube Oil to Base Oil group I, group II and group II+ with zero environmental waste; no air, no solid and no liquid pollution. Perfect! The WFE is ideally suited to process hard-to-handle, heat sensitive and viscous materials. These are just some of the many and varied products that the WFE processes. It is designed to carry out deodorization, distilling, concentration, reboiling, solvent recovery and stripping, then re-refined oil is ready for lube oil blending stage.

POSSIBLE RECOVERY ANALYSIS





PROJECTS & TECHNOLOGIES

The Lube oil blending plant is one of the best industrial business solution for newcomers as well as expert industrialist. We provide the complete lube oil blending turnkey plant and projects with complete EPC and marketing solution from raw materials to end product selling by our internationally marketing executive and channel.

We manufacture lube oil blending plant equipment, machinery and feeling labelling machine. The lube oil blending process consist of process engineering P&ID and feeds engineering. rest are same as oil & gas industry, basically lube oil blending plant design are bit simple and easy because only thing are involved are heating and cooling after adding the additive which define the different grade of lube oil like engine oil, gear oil, brake oil, hydraulic oil and others, its basically depends upon the lube oil blending plant manufacturers or operator. The lubricant oil blending plant are easy to install because of easy and systematic process. Feel free to contact us for getting more info and lube oil blending plant cost which will come at your location with installation.

LUBE OIL BLENDING PLANT

Lube Oil blending project is favourable to manufacture below lubes oil

- Different Grade of Engine oil
- Transmission / Gear oil
- Break oil
- Hydraulic oil
- Industrial oil
- Transformer oil
- White oil
- Other Process oils

BENEFITS OF LUBE OIL BLENDING PROCESS:

Lube Oil Blending Plant is a technology to create marketable products from SN 150, 300 and 500.

SOME OF ITS ASTUTE CHARACTERISTICS ARE:

- Lube Oil Blending Plant is a HASSLE FREE TECHNOLOGY.
- Lube Oil Blending Plant is EASY TO OPERATE and can be provided with any LEVEL OF AUTOMATION including MANUAL, SEMI - AUTOMATIC and COMPLETELY AUTOMATIC.
- We can provide for all the necessary FORMULATIONS AND RECIPES required to create ALL THE NECESSARY TYPES OF GREASE.
- Entire process is designed in a manner to provide for DRIP FREE movement of lubricating oil EVEN IN THE FILLING AND LABELING PART.
- We take your process technology and scale it up, without sacrificing quality. We are experienced at fully extracting your technical, operational and commercial specifications. We combine those with our knowledge of process capabilities, batch mixing, and design/build to help you "Do It Better."

Our process for building Complete batch process manufacturing systems includes:

- Utilizing Front-End Engineering to ensure the proper steps are taken during project scope development
- Design/Fabrication that reduces traditional downtime through parallel construction and results in cost-savings, increased safety and faster project delivery.
- Maintaining an open door client policy to promote innovation and communicate. We invite clients to visit Petrof throughout projects
- Imparting a transfer of knowledge, not just basic training, for the systems and equipment we provide.

OVERVIEW OF BLENDING PLANT

GLOBAL INSIGHT TECHNOLOGIES, INDIA

Phone: +91 98672 34141 / 91983 60019 ● Mail Id: globalinsighttech@gmail.com