



**PT YERRY PRIMATAMA HOSINDO
ENGINEERING DIVISION**

**10th
Edition**

COMPANY PROFILE

**FILTRATION
LUBRICATION
HYDRAULIC
ENGINEERING**



Welcome to

PT Yerry Primatama Hosindo

[Engineering Division]

PT. YPH Engineering is part of the Sumber Group Industries which specializes in design engineering in the area of filtration, lubrication, and hydraulic systems. We are the "home" for industrial ideas. Our innovative products, solutions and services are needed by a wide variety of industries.



Our ideas in the areas of filtration, lubrication and hydraulics give our customers the power to move forward. We are the pioneer in filtration and lubrication field, in various industrial sectors such as mining, energy, manufacturing, oil and gas, transportation.

We have a long history of designing, particularly in the areas of filtration, lubrication, hydraulics and system digitization. We provide reliable, efficient and safe solutions for our customers. We always try to answer the obstacles that occurred in each of our customers in creative and unique ways. Our main target is customer satisfaction for our performance for them.

We are very happy to be close to our customers. By analyzing their needs, we are constantly setting new industry standards. We take advantage of opportunities in the development of digitalization to provide solutions that can connect and automate the performance of our products, it greatly helps our customers in optimizing their performance. Our service solutions provide a sense of security and enable customers to maximize uptime while meeting their needs.

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Journey to Excellence

In a connected and changing world, it is important to continuously learn and improve our own skills. We have a culture that actively promotes continuous learning, for the good of everyone's professional and personal development. We have a strong belief that there is always a better way of doing things.

Our values unite us and we believe that diversity inspires innovation and helps us understand the needs of our customers.

People in our environment have the opportunity to experience continuous competency development and are encouraged to push their own boundaries.



Learning is an integral part of our mission to provide profitable sustainable growth. This sustainability strategy helps us deliver greater value to all stakeholders.

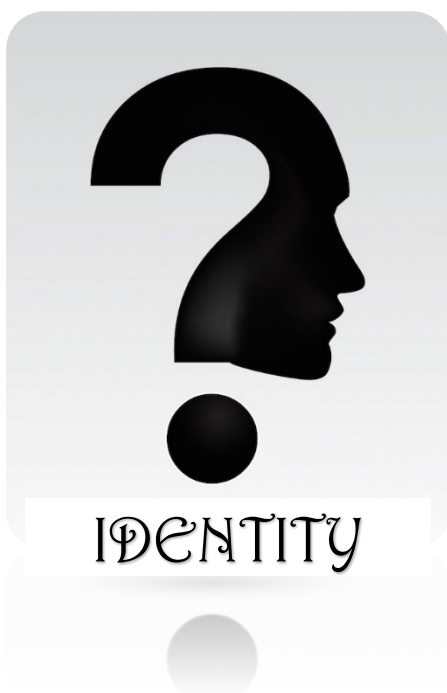
An inclusive workplace where employees have equal opportunities is the basis for innovation. This is why we strive to increase diversity, encourage mobility, and provide the conditions for the growth and development of our people on our journey to excellence.

Vision

PT Yerry Primatama Hosindo [Engineering Division] is determined to be trusted provider in lubrication, filtration & custom Engineering, by offering the most suitable solution for customers with best quality, high efficiency, time effectiveness and cost saving measures. We are also determined to become a reliable provider in this field through resourceful invention and innovation.

Mission

Through the innovation and continuous improvement in delivering reliable product's quality and services, we strongly believe that we will meet and exceed customer expectations. PT Yerry Primatama Hosindo operates on the principles of integrity, loyalty and fairness towards employees, customers, suppliers and stakeholders.



Core Values

We always try to add knowledge and skills so we can provide the right solutions for organizations, business partners and the surrounding environment. We are very enthusiastic in carrying out and completing our duties and responsibilities, by creating a situation that is stable, conducive and happy to support the achievement of our best performance. As diverse as the identities and cultures within our organization, we encourage all to share our core values: Commitment, Team work and Collaboration, Respect and Fairness, Trust and Openness, Quality and Reliability, Professionalism.

Strategy

Meeting customer needs by providing the most suitable solution that can address customer constraints based on the latest technological developments, maintains close communication with suppliers of parts and equipment and ensures accuracy of production time.

Certification

ISO 45001 : 2018

Yerry Primatama Hosindo Engineering Division proactively manages all types of risks to the business, including occupational health and safety.

YPH Engineering Division obtained ISO 45001 certification to provide a new impetus for health and safety practices within the organization and help improve safety for employees.

This translates into opportunities to protect and promote health, performance and continuous improvement in employee satisfaction.



ISO 9001 : 2015

ISO 9001 2015 certification is an international standard for Quality Management System Certification, which establishes various requirements, guidelines, and recommendations for the design and assessment of a Quality Management Certification.

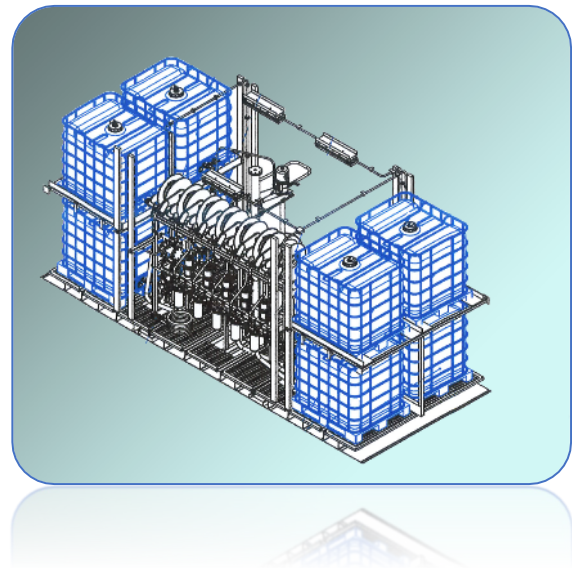
YPH Engineering Division has successfully passed the audit and received ISO 9001 2015. This means that we meet various requirements that have been set internationally and we are responsible for guaranteeing the quality of the products produced.



Capability

We have high skilled personnel who are experts in their fields, and we have a lot of experience to make and develop mechanical, electrical and hydraulic system.

We produce unique products, which are made specifically for our customers. We approve, create and develop our own systems to provide the best solutions for our customers.



Flowmeter Service Facility

The flow meter service and maintenance facility built to fulfilled customer need for their owned flow meter that already damage, inaccurate and imprecise. Flow meter is one of the instruments (measuring device) that used to measure flowrate of a liquid or a gas. Therefore, flow meter must be precision and have high accuracy.



We always cooperate with government calibration agencies that have been trusted to be able to test the accuracy and precision of the flow meter and publish its calibration certificate as well.

Research & Development



We established a new department for Research and Development and also laboratory activities to analyze the cleanliness level of oil and or diesel fuel. We want to expand our knowledge and enrich our experience in the field of cleanliness level of oils and or diesel fuels.

We hope that we can provide education and training to all of our customers, especially in terms of the system of controlling the cleanliness level of oil and or diesel fuels.

Fluid Laboratory

Therefore, we are very focused on fuel cleanliness. In our Research & Development facility, we have also developed a system to increase the level of fuel cleanliness for our customers. So that all customers who use the system that we have made for them, can have their own satisfaction and the main thing is they can have fuel with a high level of cleanliness.

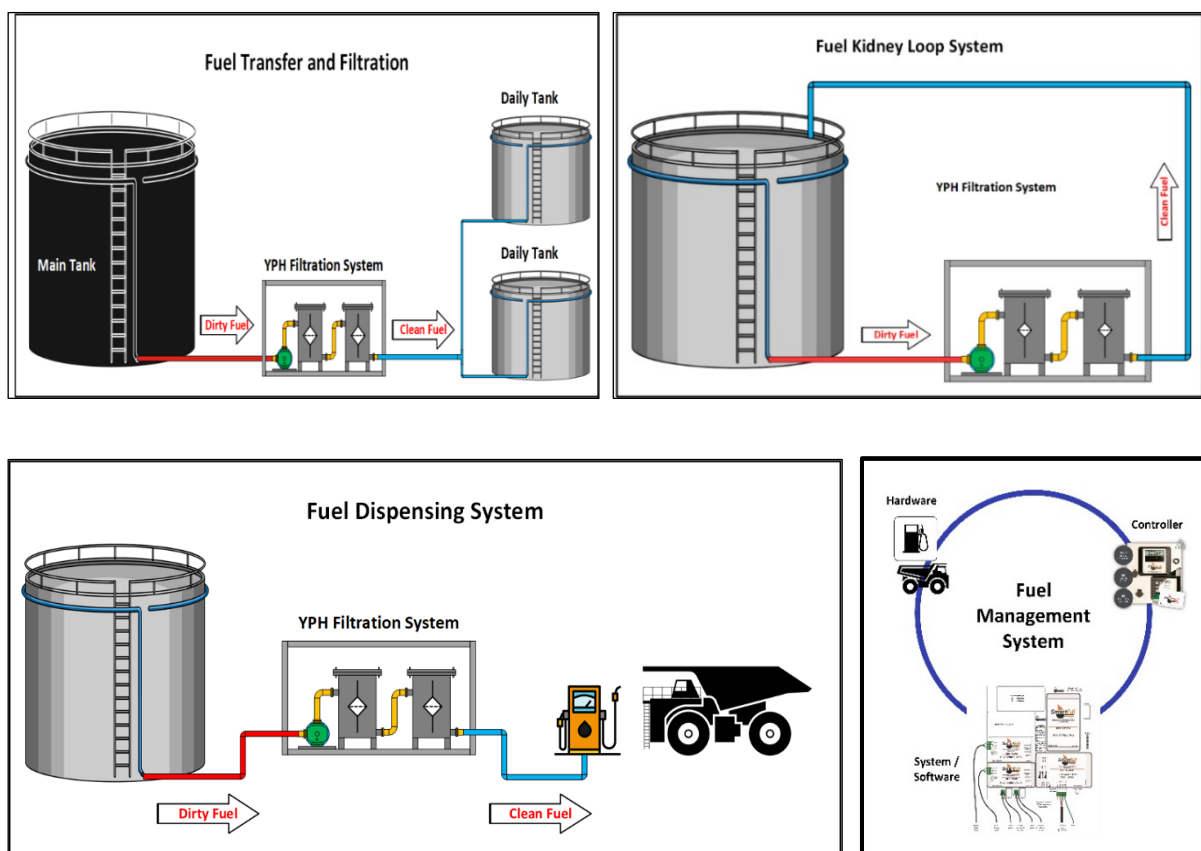
We also continue to improve the advantages of our products with the product digitization method so that we can continue to improve the quality of our products in order to meet customer needs.



Filtration System

PT Yerry Primatama Hosindo Engineering Division offers you innovative products according to system filtration for diesel and oil to increase the cleanliness and cover your preventive needs. By taking this comprehensive approach, we ensure improved operational efficiency, productivity and reliability of your critical assets.

We have a lot of experience in filtration systems and there are many variations of products (systems) for our customers in various regions according to their individual needs.



In general, all of the projects and or system have several main functions, including Fuel Transfer System, Kidney Loop System, Fuel Dispensing System and Fuel Management System.

The Importance of Clean Fuel

Manufacturers of diesel engines are utilizing new technologies to meet the stringent requirement of tightening emissions regulations. Common rail fuel system components operate under these pressure ranges multiple times every minute and they simply do not have tolerance for dirty, wet or contaminated fuel!

In order to protect fuel systems, many diesel engine manufacturers now specify the required cleanliness level of supplied fuel. Tank contamination in excess of that specification may have warranty implications. On board filtration is designed relative to specified cleanliness levels.



In this case, the most important thing is to use a good quality filter to protect your machine. Jammed in your fuel filter indicates there are cleanliness problems with the fuel. The key to solving this problem is finding out how dirty the fuel is and whether there is contamination in the fuel storage tank, all of which can be overcome by installing a good and proper Filtration System.

YPH Fuel Facility

Fuel facility is a fuel distribution facility built in remote area locations with the aim of optimizing the fuel distribution process to units in need, such as heavy and light vehicles. The fuel facility from Yerry Primatama Hosindo consists of several systems, namely fuel dispensing, shelter, and fuel filling systems.



In addition to the distribution function, this Filling and Dispensing system also has a main feature, namely fuel filtration which will be distributed to the unit. This filtration system aims to increase the level of cleanliness (cleanliness) of the fuel and minimize the water content contained in the fuel itself.

YPH Containerized Fuel Dispensing Module

The Fuel Dispensing Module has the main function of distributing fuel from the storage tank to various units (refueling facility, fuel storage and dispensing system) that require fuel.



In the Fuel Dispensing Module, there are 3 stages of the filtration process:

1. By a magnetic strainer to remove contaminating particles larger than 150 microns ($> 150 \mu\text{m}$).
2. By Velcon Filter vessel #1 containing the element DFO - 644PLF10 which can filter out contaminant particles measuring more than 10 microns ($> 10 \mu\text{m}$).
3. By Velcon Filter vessel #2 which contains the element AD-6445 to absorb water dissolved in the fuel.

YPH Integrated Filtration System FBO 14

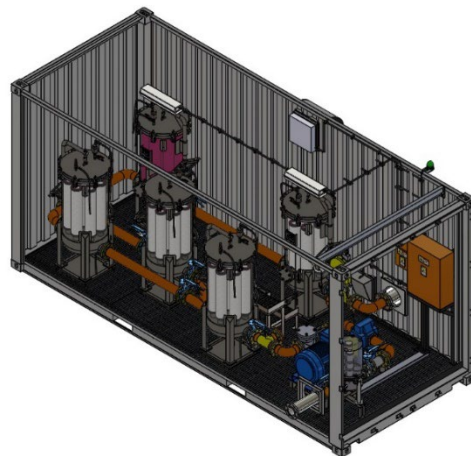
FBO 14 Fuel Filtration functions as a pre-filter, works by filtering solid contamination and separating water contamination from fuel. After going through the FBO-14 filter, the fuel will go through the final filter on the engine unit.

Blockage Indicator is installed to determine the condition of the filter element. If the Blockage Indicator shows green, it means that the filter element is still in good condition. However, if the Blockage Indicator shows a red color, then the filter element must be replaced immediately. With the installation of this pre-filter filter (FBO-14), the service life of the final filter on the engine unit will be increased.



Dispensing Module for Dump Truck (DT) / Light Vehicle (LV)

The Dispensing Module system has the main function of distributing fuel from the storage tank to various refueling, storage and dispensing units that require fuel. Another main function that is no less important is for fuel filtration which will be distributed to Dump Truck (DT) or Light Vehicle (LV) units.



In the Fuel Filtration System there are 5 stages of the filtering process:

1. magnetic strainer to remove particulate contamination up to 150 microns in size.
2. Velcon Filter DFO - 629PLF25 which can filter particles with a size of up to 25 microns.
3. Velcon Filter DFO - 629PLF10 which can filter particles with a size of up to 10 microns.
4. Velcon Filter DI – 633D1TB to remove water dissolved in fuel by making it into small water droplets.
5. Velcon Filter DSO – 629PLF3 to separate water from fuel.

YPH Gas Scrubber

Gas scrubber are designed to remove contaminants that dissolve in natural gas. Contaminants is containing dirt, condensates, oil and moisture which ensure high degree of purify Natural Gas at Filter Outlet with max flow rate 16920 m³/h at 7 bar.



YPH Bulk Diesel Fuel Filtration



The Bulk Diesel Fuel Filtration has main function to transfer and filter the fuel before it goes into distribution point. It used to transfer and filter the fuel from the huge fuel tank to the smaller one. In the process of fuel transferring (although new fuel), usually there are a lot of contaminant particle and water dissolved in the fuel.

YPH Fuel Dispensing Module by Transtank P69

Transtank has self-bunded design with safe fill level 30,280 liters while and it supplied with 2 pieces of c/w 80 nb Full Bore, Fire Safe Flanged Ball Valve, and Wafer Style Non-Return Valve. Designed and manufactured in accordance with AS1657.

Product Advantages:

- To be able to receive, transport, store and dispense hydrocarbon fluids to remote places on and off the working project site.
- To be able to receive and dispense hydrocarbon fluids with nozzle gun (dispensing) and cam lock (filling).
- Self-bunded storage tank (double skin) avoids any additional bunded storage.
- Overfill alarm indicates and warns the operator to stop filling and dispensing.
- On board flow meter records the amount of hydrocarbon fluids dispensed.
- Contains Parker filter FBO 140 that filters contamination & water separator (up to 5 microns).



YPH Coalescer Maintank

The Coalescer Maintank's main purposes is to increase the fuel cleanliness, before the customer distribute the fuel for their engine of heavy equipment. It will have filtered the fuel before it come into the fuel truck. There are two loading arms in the Coalescer Maintank.

All equipment in the Coalescer Maintank assembled in a rigid frame complete with bunded area, so it will prevent environmental pollution if there is fuel leakage in the system. In this product, there are three sample points that purposed to get the fuel sample before and after filtration. So, the operator is able to check the fuel cleanliness.



Lubrication System

The lubrication system is designed to apply lubricant in small, measured amounts over short, work automatically and frequent time intervals.

Time and human resource constraints and sometimes the physical location on machine often makes it impractical to manually lubricate the points. As a result, production cycles, machine availability, and manpower availability dictate the intervals at which machinery is lubricated which is not optimal for the point requiring lubrication.

The Auto Lubrication Systems are installed on machinery to address this problem.



Even though these systems are usually fully automated, a system that requires a manual pump or button activation is still identified as a centralized lubrication system. The system can be classified into two different categories that can share a lot of the same components. They are Oil system and Grease system.

YPH Lube Container (New Caledonia Project 2022)

This Lube Container has several main functions:

- Oil Dispenser:**
 This system serves to distribute new oil to units that need it. There are 6 slots for 6 IBC tanks with 6 new types of oil to be distributed. The new oil from the IBC tank will be transferred into the unit after going through a filtering process.
- Waste oil**
 The main function of this waste oil system is to take waste oil from the unit and put it into the IBC tank as a used oil container. There are 2 slots for 2 IBC tanks for used oil disposal. This used oil can also be put directly into the service truck that handles the used oil. The used oil in the unit will be sucked in by the diaphragm pump and then accommodated by the IBC tank.
- Grease Dispenser**
 This system has the main function of distributing new grease into the unit. The new grease will be sucked from the drum and then pumped into the unit after passing through the hose reel and grease gun.



YPH Lube Container

Lube Skid Container 10KL is a lube handling system that makes it easy for operators to distribute lubricants (oil, coolant and grease) in remote customer areas. By using this Lube Skid Container 10KL, unit maintenance work in the lubrication sector can be carried out in remote areas by technicians.



There are several operating systems in this Lube Skid Container 10KL:

- Oil Dispensing System
- Coolant Dispensing System
- Grease Dispensing System

YPH Auto Lubrication Project for Paper Machines

At this project we were using The Two-Line Greasing System, which is it's a lubrication system (that uses grease as its fluid) with high working pressure and large delivery distance. Two-line system consists of a pump, a changeover valve, metering device, and a pressure switch in two-line system.



The pump supplies the grease to the changeover valve. From the reversing valve, lubricant is supplied alternately into one of the two main lines. Then, the grease will be injected into every point by the action of metering device

YPH Lube Dispensing Workshop

Lube Dispensing Workshop is basically a support system for the maintenance process of operational units/vehicles. The Lube Dispensing Workshop is divided into 2 parts, namely Skid Assy and Reel Bank Assy, which are connected by a series of pipes. The main functions of this tool are as follows:

- Storage area for new oil, used oil, coolant and grease.
- Reduces contamination of new oil.
- Dispenser for new oil, coolant, grease and compressed air.



The pump system can be used for filling and circulating (kidney looping) new oil tanks and coolant tanks, as well as dispensing new oil and coolant from the storage tank to the Reel Bank Assy through a series of pipes. Pump performance is regulated by the Control Panel.

YPH Lube Container with Skid

Lube Container with Skid is an equipment system that functions as the main means for maintaining units in remote areas in terms of lubrication related to oil and grease. The whole system is placed in a 20 feet container which is placed on top of a skid with the aim of increasing its mobility to be placed in remote customer areas.



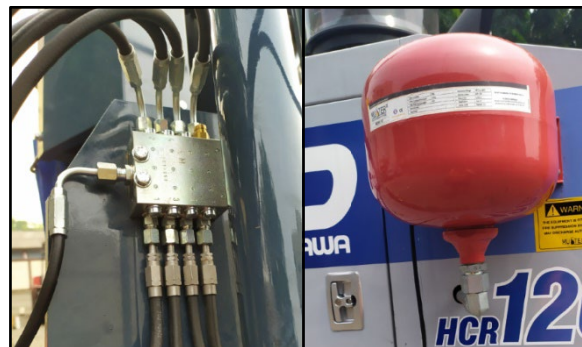
There are several systems in this Lube Container with Skid: **Oil dispensing, Coolant Dispensing, Grease Dispensing and Compressed Air System**. The main function of this system is to distribute (oil, coolant, grease and/or pressurized water) needed in the process of unit maintenance in remote areas.

YPH Autolube and Fire Suppression System

This is an Autolube and Fire Suppression installation project on a Furukawa unit. Both of these systems are very much needed in the unit to support its operational processes as well as provide protection against possible fire hazards that may occur in the unit concerned.



Autolubrication system is embedded in this unit to optimize the working time of this unit so that its performance can be maintained properly (referring to the lubrication system) and this unit does not need to stop working only for the lubrication process for rotating / moving components.



While a fire suppression system is also installed in this unit to protect this unit from damage caused by fires that occur. All of these systems are installed to protect the assets owned by the customer.

Hydrocarbon Management System

Smartfill Gen 2

SmartFill Gen 2 from Fluid Management Technology is one of the best cloud-based systems on the market. Information related to fuel usage such as: time, volume, type of fuel distributed, vehicle and user identity which is recorded and uploaded in real time to the cloud via LAN, Wi-Fi or cellular network (3G/4G).

Using a cloud system, data can be directly accessed by anyone who needs the data such as accountants or fleet managers. The data recorded by SmartFill Gen 2 can be accessed safely online, without the need for special software. SmartFill Gen 2 records the last five thousand (5,000) fuel records in memory on the physical unit.

Data recorded by SmartFill Gen 2 can be accessed safely online, without the need for any special software. Web-based reporting allows easy customization of graphs and reports, choosing which is most suitable for you and bonuses on how this reporting is free to access. SmartFill Gen 2 records the last five thousand (5,000) fuel records in memory in the physical unit, which means that you will have a complete history of any problems arising from refueling at your company, even if the temporary cloud connection is lost.



Automatic Tank Gauging

Automatic Tank Gauging (ATG) System

An Automatic Tank Gauge (ATG) is an electronic device, whose basic function is to monitor the fuel level in the tank over a period of time which can accurately monitor your tank in real time.

With the ATG system, you can take complete control of fuel management. Whatever and wherever you want of product level, water level, five-point temperature, inventory, delivery and sales information, the system will always help you easily reach the target!



Benefits

- Tank comparison table and memorization in non-volatile memory of the 500 points mm/liter conversion table.
- Event recording up to 32 Gb removable microSD card (only for MAGLINK family).
- Safe and easy programming through set up software.
- Visualization of the following parameters:
- Several standard communications already integrated:
- Leak detection, automatic reconciliation, deliveries, trends.



Principal



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