



 **spectrum**  
VISUAL LUBRICATION MANAGEMENT SYSTEM

**Solutions for Lubricant Management from Storage to Point-of-Use.**  
For easy lubricant identification, management and inventory control - implement the Spectrum Visual Lubrication Management System the moment lubricants are received in inventory.



## It's Time to Clean Up Your Lubricant Storage Act

Maybe it's just a few specks of dust. Or a couple droplets of moisture.

These sneaky undesirables can get into your lubricants and quickly compromise your assets.

Costly, unplanned machine downtime may follow.

That's why it pays to be vigilant against contaminants throughout the entire journey of the lubricant, because contamination threats are lurking at every stage.

### Awareness is Key

You can protect your lubricant and equipment by being aware that contamination is present throughout the journey of the lubricant. Taking small steps today can help you run reliably and reduce the risk of equipment failure in the future.

Contamination issues often start by the way lubricants are stored and are already a problem by the time the lubricant is introduced into the equipment. Having a designated, clean storage area will help with:

- Lubricant consolidation and reducing storage space
- Enhancing visual recognition and efficiency
- Reducing misapplication errors by operators
- Reducing contamination before it creates problems
- Improving safety and decreases waste



**Trust Trico for an oil storage solution to improve the integrity of your lubricants.**

# Spectrum Bulk Oil Storage and Dispensing System



The Spectrum Bulk Oil Storage System provides an easy and effective way to identify, store, dispense, and transfer lubricants.

- Provides best practices in storing lubricants
- Provides clean, efficient dispensing of lubricants
- Eliminates the potential of cross-contaminating lubricants
- Improves lube route efficiency and equipment reliability
- Provides cleaner workspace and environment
- Allows for flexible configuration to adapt to small and large spaces
- Identify lubricants clearly with Spectrum color-coded tags and labels
- Compact footprint

## ECONOMICAL

Cost-effective solution to storing 55-gallon drums and adding additional tanks when needed

## SCALABLE

Accommodates any number of lubricants required for storage and dispensing

## SIMPLE

Systems are shipped fully assembled, ready to be used saving valuable time

## RELIABLE

Provides proper storage, handling, and dispensing to ensure lubricant cleanliness

## MOBILE

Easy to relocate systems where needed around your facility

# Systems Available in Three Different Configurations



## Essential Stack

Provides a budget friendly and space saving solution.

- ✓ Provides contamination control with a manifold system to change lubricants
- ✓ One pump per system
- ✓ Expandable up to a maximum of 6 tanks



## Performance Stack

Provides best practices in storage and dispensing of lubricants.

- ✓ Provides best practices in contamination control and removal
- ✓ Includes one pump and filter per tank
- ✓ Includes inline filtration of lubricants



## Intelligent Stack

SENSEI® enabled with HMI touch panel for functionality and usability.

- ✓ HMI panel provides system control and real-time system status
- ✓ Includes one pump and filter per tank
- ✓ Includes inline and kidney loop filtration

No matter the storage solution, Spectrum Bulk Oil Storage Systems provide a simple solution to store, organize, handle, and dispense lubricants.



# All Systems Include the Following Features

**65 Gallon Tanks** – 10 gallons of additional capacity allows you to pump all product out of a 55-gallon drum and into the Spectrum Bulk Oil Storage System tank

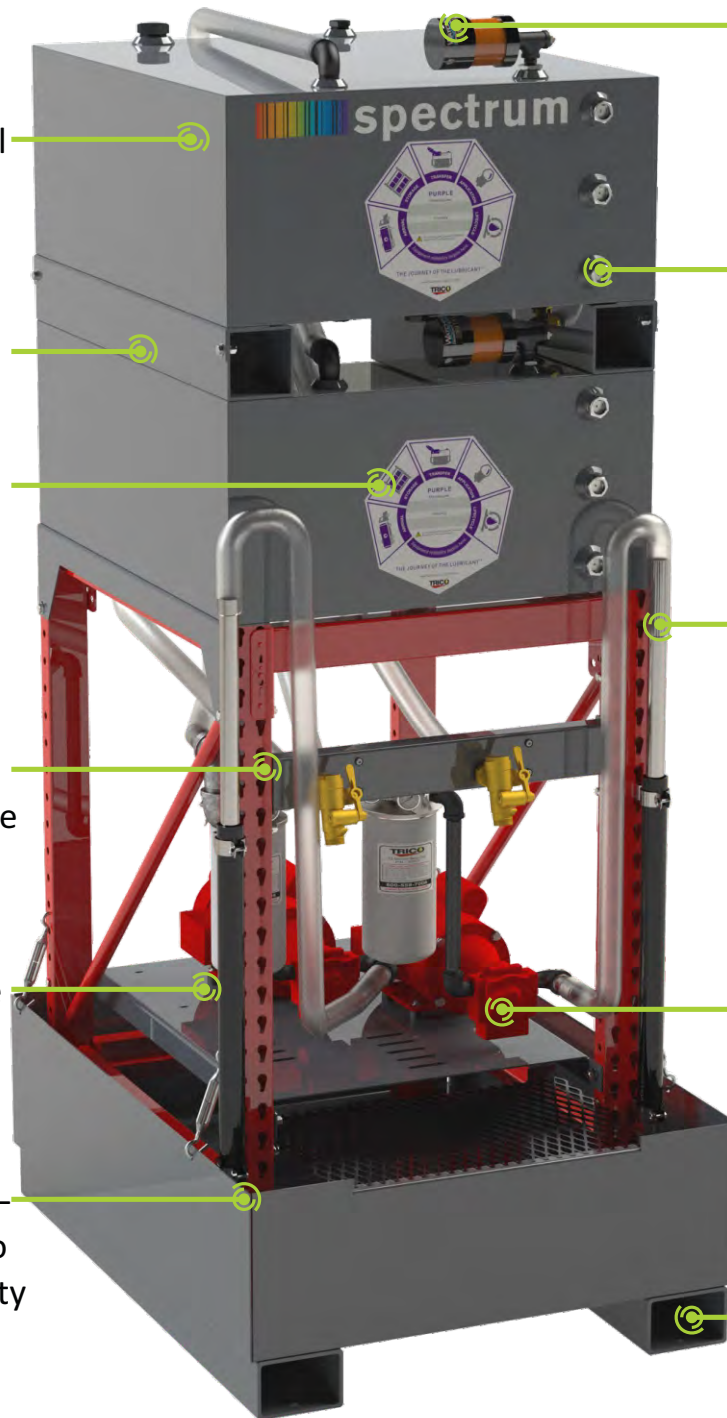
**Expandable Systems** – Easily add extra stacks to an existing system

**Color Coded Identifiers** – System comes with a set of 10 color labels and tags to clearly mark tanks and valves with oil type to ensure the right product is being used at the right application

**Self-Closing Brass Dispensing Valves** – These heavy-duty self-closing valves make dispensing oils quick, easy, and spill-free (includes 3/4" NPT threaded opening)

**Heavy Gauge Racking** – The heavy gauge racking supports tanks when completely filled with lubricant

**Spill Containment and Dispensing Area** – Heavy-duty steel constructed and built to exceed OSHA regulations of 110% capacity



**Desiccant Breathers** – Prevents moisture and particulate contamination from entering tanks

**Sight Ports** – Provides quick, easy indication of oil level

**Shut-Off Ball Valves** – Each tank is equipped with its own valve to shut off oil flow (not shown)

**Stainless Steel Wands** – These heavy-duty stainless steel wands are corrosion resistant to provide long life and are used to fill tanks from bulk oil containers

**Pump Control Switch** – Customer mounted on/off switch to control the operation of the pump (not shown)

**Bronze Gear Pump** – Self-priming pump saves time

**Pressure Relief Valve** – Prevents over pressurizing and damage to tanks (not shown)

**Integrated Forklift Pockets** – System comes with built in lift points for easy forklift and hand pallet transportation

# Solutions for Lubricant Management from Storage to Point-of-Use

## Improves Efficiency

Allows you to store oil close to your work area, keeping it readily available without the need to make multiple trips to and from each machine.

## Reduces Space

Systems are designed to maximize space and eliminate drum clutter in your facility.

## Prevents Cross-Contamination

Consistently identifying oils through the use of labels and a color-coding system ensures the right oil goes into the correct storage tank, transfer container, and machine every time.

## Eliminates Safety Hazards

Bulk oil storage systems reduce the risk of worker injury caused by moving and stacking 55-gallon drums.

## Increases Productivity

Systems allow monitoring of oil usage making sure there is no lubricant shortage.



Oil Sampling Ports



Dispensing Area



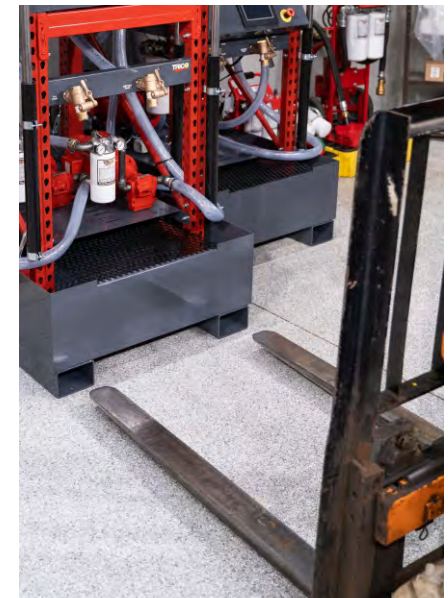
Bronze Gear Pump



HMI Touch Screen



Hand Pallet Transport



Fork Lift Transport

# Essential Stack - Pump Stack

**Expandable  
with Storage  
Stack**

**Part Number - 37200 Electric  
or 37245 Pneumatic**

**(37257 - 50 Hz motor option)**  
Two tanks with one pump  
(required to build an Essential  
Stack System).

**Wetted Parts Material**

**Composition**

Steel – Stainless, Galvanized &  
Zinc; Viton; Buna; Brass; Bronze;  
Iron – Galvanized & Black Coated;  
PVC; Aluminum

**Manifold** – Allows for  
expansion with up to two  
Storage Stacks for a  
maximum of six tanks per  
Essential Stack System.

**WARNING**

For use with only petroleum  
based fluids. Do not use with  
solvents or fuels.



<b>Tank Size</b>	65 Gallons
<b>Tank Material</b>	Powder Coated Steel
<b>Frame Material</b>	Powder Coated Steel
<b>Oil Level Indication</b>	Viewports
<b>Oil Type Indicator</b>	Color-Coded Labels and Tags
<b>Filtration</b>	No
<b>Filter</b>	None
<b>Electric Motor</b>	1.5 HP @ 1750 RPM
<b>Pneumatic Motor</b>	4 HP @ Max 3000 RPM
<b>Pump Type</b>	1 - Industrial Grade Gear Pump
<b>Desiccant Breather</b>	2 - Dedicated Breather for Each Tank
<b>Wand</b>	1 - 1" ID Stainless Steel Wand
<b>Hoses</b>	1-1/4" ID Heavy Wall Wire PVC
<b>Spill Containment</b>	Yes - 73 Gallons (OSHA Compliant)
<b>Dispensing Valves</b>	Self-Closing Bronze Valves
<b>Emergency Stop</b>	No
<b>Power Dispense</b>	No
<b>Filter Life Indicator</b>	N/A
<b>Sampling Ports</b>	None
<b>Maximum Viscosity</b>	ISO 680 at room temperature (70°F)
<b>Power</b>	120V 20 Amp (50 Hz option available)
<b>Rack Capacity</b>	2500 lbs
<b>Dry Weight</b>	800 lbs
<b>Shipping Skid Size</b>	41" x 58"

The Essential Stack system is expandable with up to two Storage Stacks  
(part number 37202) for a maximum of six tanks per Essential Stack system.

# Storage Stack

## Part Number - 37202

Expansion stack for Essential Pump Stack.

## WARNING

For use with only petroleum based fluids. Do not use with solvents or fuels.

## Connecting Tubes –

Used to connect Storage Stack to an Essential Pump Stack.

## Wetted Parts Material

### Composition

Steel – Stainless, Galvanized & Zinc; Viton; Buna; Brass; Bronze; Iron – Galvanized & Black Coated; PVC; Aluminum



<b>Tank Size</b>	65 Gallons
<b>Tank Material</b>	Powder Coated Steel
<b>Frame Material</b>	Powder Coated Steel
<b>Oil Level Indication</b>	Viewports
<b>Oil Type Indicator</b>	Color-Coded Labels and Tags
<b>Filtration</b>	No
<b>Filter</b>	None
<b>Motor</b>	None
<b>Pump Type</b>	None
<b>Desiccant Breather</b>	2 - Dedicated Breather for Each Tank
<b>Wand</b>	None
<b>Hoses</b>	1-1/4" ID Heavy Wall Wire PVC
<b>Spill Containment</b>	Yes - 73 Gallons (OSHA Compliant)
<b>Dispensing Valves</b>	Self-Closing Bronze Valves
<b>Emergency Stop</b>	No
<b>Power Dispense</b>	No
<b>Filter Life Indicator</b>	N/A
<b>Sampling Ports</b>	None
<b>Maximum Viscosity</b>	ISO 680 at room temperature (70°F)
<b>Power</b>	N/A
<b>Rack Capacity</b>	2500 lbs
<b>Dry Weight</b>	700 lbs
<b>Shipping Skid Size</b>	41" x 58"

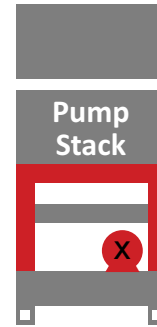
The Storage Stack provides expansion to the Essential Pump Stack. Each Pump Stack can have up to two Storage Stacks for a maximum of six tanks.



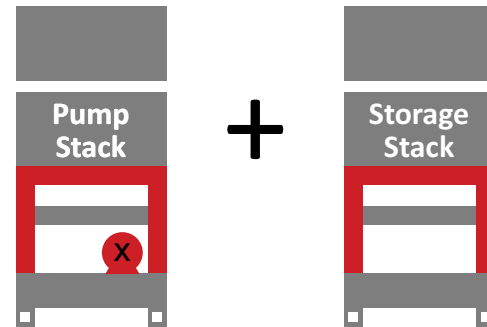
# Essential Stack - Configurations



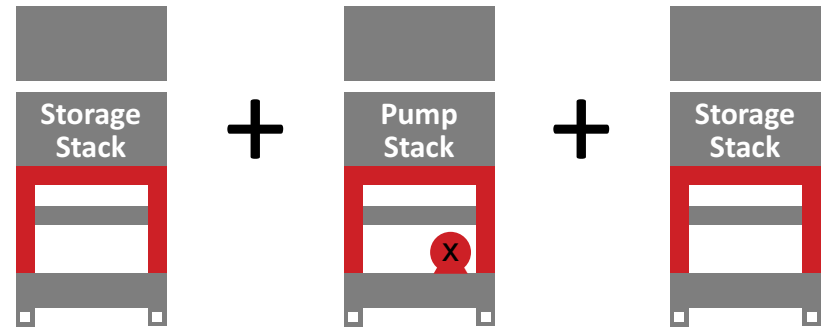
Essential Stack System - 2 Tanks



Essential Stack System - 4 Tanks



Essential Stack System - 6 Tanks



The Essential Stack System is expandable with a maximum of six tanks per system. Each system must include a Pump Stack. For additional tanks add the Storage Stack.

# Performance Stack

**Part Number - 37210**

**Electric or 37246 Pneumatic  
(37258 - 50 Hz motor option)**

One pump and filter per tank.  
Includes inline filtration.

## WARNING

For use with only petroleum based fluids. Do not use with solvents or fuels.

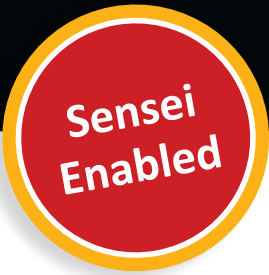
## Wetted Parts Material Composition

Steel – Stainless, Galvanized & Zinc; Viton; Buna; Brass; Bronze; Iron – Galvanized & Black Coated; PVC; Aluminum



<b>Tank Size</b>	65 Gallons
<b>Tank Material</b>	Powder Coated Steel
<b>Frame Material</b>	Powder Coated Steel
<b>Oil Level Indication</b>	Viewports
<b>Oil Type Indicator</b>	Color-Coded Label and Tags
<b>Filtration</b>	Inline Filtration
<b>Filter</b>	2 - 10-Micron Filters
<b>Electric Motor</b>	1.5 HP @ 1750 RPM
<b>Pneumatic Motor</b>	4 HP @ Max 3000 RPM
<b>Pump Type</b>	2 - Industrial Grade Gear Pump
<b>Desiccant Breather</b>	2 - Dedicated Breather for Each Tank
<b>Wand</b>	2 - 1" ID Stainless Steel Wand
<b>Hoses</b>	1-1/4" ID Heavy Wall Wire PVC
<b>Spill Containment</b>	Yes - 73 Gallons (EPA Compliant)
<b>Dispensing Valves</b>	Self-Closing Bronze Valves
<b>Emergency Stop</b>	No
<b>Power Dispense</b>	No
<b>Filter Life Indicator</b>	Pressure Differential
<b>Sampling Ports</b>	Post Filter
<b>Maximum Viscosity</b>	ISO 680 at room temperature (70°F)
<b>Power</b>	120V 20 Amp (50 Hz option available)
<b>Rack Capacity</b>	2500 lbs
<b>Dry Weight</b>	860 lbs
<b>Shipping Skid Size</b>	41" x 58"

The Performance Stack is a stand-alone unit with two tanks. These systems provide flexibility in expanding with additional stacks.



# Intelligent Stack

**Part Number - 37220**  
**(37259 - 50 Hz motor option)**

One pump and filter per tank with HMI touch screen. Includes inline and kidney loop filtration.

### WARNING

For use with only petroleum based fluids. Do not use with solvents or fuels.

### Wetted Parts Material Composition

Steel – Stainless, Galvanized & Zinc; Viton; Buna; Brass; Bronze; Iron – Galvanized & Black Coated; PVC; Aluminum



Tank Size	65 Gallons
Tank Material	Powder Coated Steel
Frame Material	Powder Coated Steel
Oil Level Indication	Digital Indication and Viewports
Oil Type Indicator	Digital Indicator & Color Coded Labels
Filtration	Inline and Kidney Loop Filtration
Filter	2 - 10-Micron Filters
Motor	1.5 HP @ 1750 RPM
Pump Type	2 - Industrial Grade Gear Pump
Desiccant Breather	2 - Dedicated Breather for Each Tank
Wand	2 - 1" ID Stainless Steel Wand
Hoses	1-1/4" ID Heavy Wall Wire PVC
Spill Containment	Yes - 73 Gallons (OSHA Compliant)
Dispensing Valves	Self-Closing Bronze Valves
Emergency Stop	Yes
Power Dispense	Yes
Filter Life Indicator	Pressure Differential & Digital Indicator
Sampling Ports	Pre and Post Filter
Maximum Viscosity	ISO 680 at room temperature (70°F)
Power*	240V 30 Amp (twist lock plug)
Rack Capacity	2500 lbs
Dry Weight	950 lbs
Shipping Skid Size	41" x 58"

\* - 50 Hz option available

The Intelligent Stack is a stand-alone unit with two tanks. These systems provide flexibility in expanding with additional stacks.

# Intelligent Stack - HMI Touch Screen

Settings: Upper Tank 1 of 5 Next

Tank Color

Tank Shape

Oil Manufacturer / ISO Grade

Configurations

Replace Filter & Reset Last Change Date # of Tank Filtration Cycles (Kidney Loop Turns) 0

HOME UPPER TANK LOWER TANK SETTINGS ALL STOP spectrum

## Settings Screen

- Select tank color as part of a visual lubrication management system to ensure the right lubricant goes into the right transfer container and the right equipment
- Optional selection of lubricant shape to identify tank contents for those who cannot distinguish between colors or shape can be used as a secondary identifier as part of a visual lubrication management system
- Identify lubricant type and ISO viscosity grade for each tank
- Configure the number of kidney loops for each tank
- Reset last filter change for each tank
- Screen lock to prevent changes to system settings

Back Upper Tank Tank Settings

Manufacturer **Mobil DTE 64**

Viscosity **ISO 22**

System Status **Ready**  
Last Filtered:

**32** Gallons Remaining  
65 gal maximum

**Filter** Last Change: 10/1/2021

Inlet Pressure 5 psi

Outlet Pressure 3 psi

Differential 2 psi

Filter Condition **Good**

Pump Control

Pump Off Start Kidney Loop Filtration

Start Filling Tank Start Power Dispense

HOME UPPER TANK LOWER TANK SETTINGS ALL STOP spectrum

## Tank Screen

- Identification of lubricants
- Date of last filter change
- Pressure differential for filter
- Filter condition - good, order, and replace
- System status - ready, kidney loop, filling, and dispense
- Pump control - off, kidney loop, tank filling, and power dispense
- Date of last filtration
- Remaining volume of lubricant in gallons


Intelligent Stack features a 7" HMI color touchscreen to communicate system status and user control.

# Intelligent Stack - Sensei Enabled

## Sensei Enabled


### Remotely Monitor Your Intelligent Stacks

The Intelligent Stack is Sensei enabled allowing you to connect to the Sensei platform via the internet. The Sensei platform operates in real-time to remotely monitor system condition and historical data from your desktop.




**OIL**

- ✓ Current oil level
- ✓ Oil consumption
- ✓ Low level alert



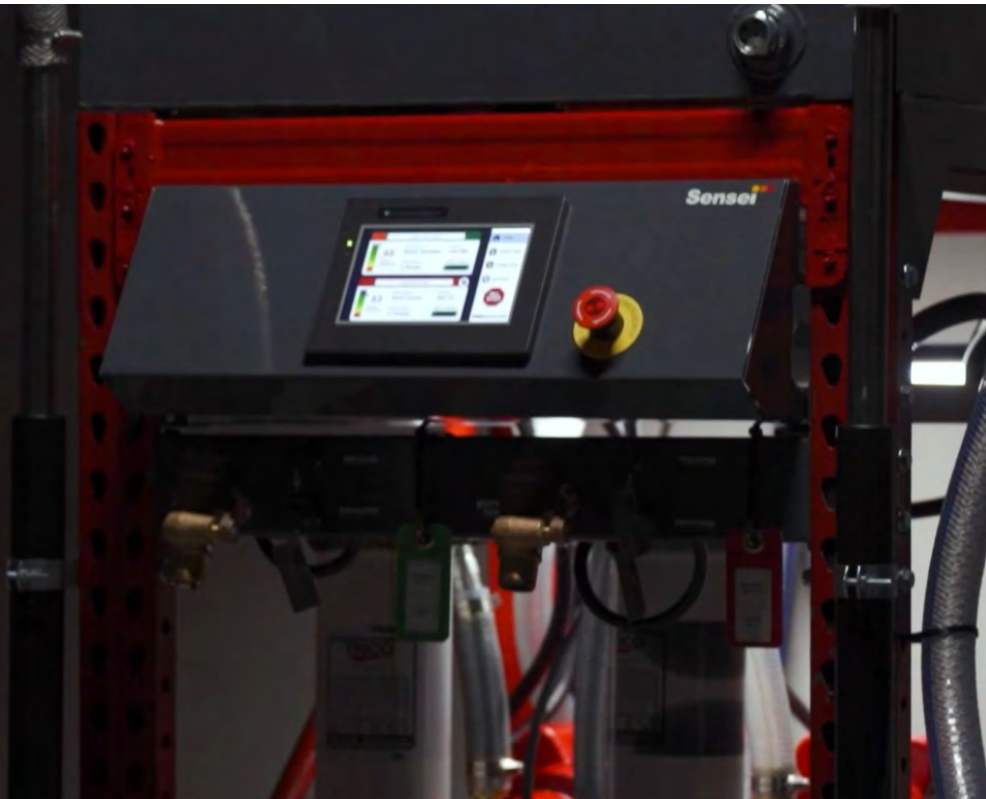
**FILTER**

- ✓ Remaining filter life
- ✓ Last filter change
- ✓ Last kidney loop



**PRESSURE**

- ✓ Inlet and outlet pressure
- ✓ Pressure differential



Monitor system condition and historical data on the Sensei platform with the Intelligent Stack.

# Build Your Own System

## MIX and MATCH System Stacks

The three different stack configurations give you complete flexibility when choosing which system is right for you and each stack system (Essential, Performance, and Intelligent Stack) allows for future expansion.



Mix and match different stacks to create a bulk oil storage system that meets your specific needs and application.

# Optional System Add-Ons

## Fire Suppression Kit

To maintain compliance with strict fire safety regulations, we offer the Fire Safety Compliance Kit. The standard PVC hose, underneath the tanks, are replaced with 1" NPT fittings and hydraulic hose that connects to a fusible link valve with spring activated handle. If the temperature reaches 165°F, the hand is automatically triggered and shuts off any possible leakage of fluid from the tank.

### Fire Valve Specifications

- 165°F UL Rated Fuse Link
- 5 PSI Maximum Pressure
- O-Ring: Buna-N

### Hydraulic Hose Specifications

- 1-1/4" ID, 1.77" OD, #20 JIC Ends
- Temperature Range: -40°F to 212°F
- Synthetic Rubber Inner Hose

### Part Number

37230 - Essential and Performance Stack Systems

37231 - Intelligent Stack Systems



## Liquid Level Gauge Retro-Fit Kit

Convert the three viewports on the Spectrum Bulk Oil Storage Systems with the Liquid Level Gauge Retro-Fit Kit. The kit provides all the necessary parts to install the Liquid Level Gauge to the 65-gallon tanks. It allows for easy viewing of the oil level. Each kit comes with two liquid level gauges for one Spectrum Bulk Oil Storage System.

### Specifications

- 12-1/2" Length Liquid Level Gauge
- Brass Construction with Borosilicate Glass

### Part Number

37235 - Essential, Performance, and Intelligent Liquid Level Gauge





**Is your equipment at risk from poor lubrication?** If you're like many out there, you may not know for sure. Not knowing can cause a lot of worry, but that's why we're here. When you've been around lubrication for nearly a century like Trico has, you learn a few things along the way. Today, we're applying that knowledge to the Spectrum Bulk Oil Storage System and in many other ways...to help give you a little more confidence.

**Start Managing Maintenance More Proactively**

Let's discuss your facility's specific needs. Talk to Trico at [inquiries@tricocorp.com](mailto:inquiries@tricocorp.com). or (262) 691-9336.

Or visit [tricocorp.com](http://tricocorp.com) to discover more and get started.

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