



 **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

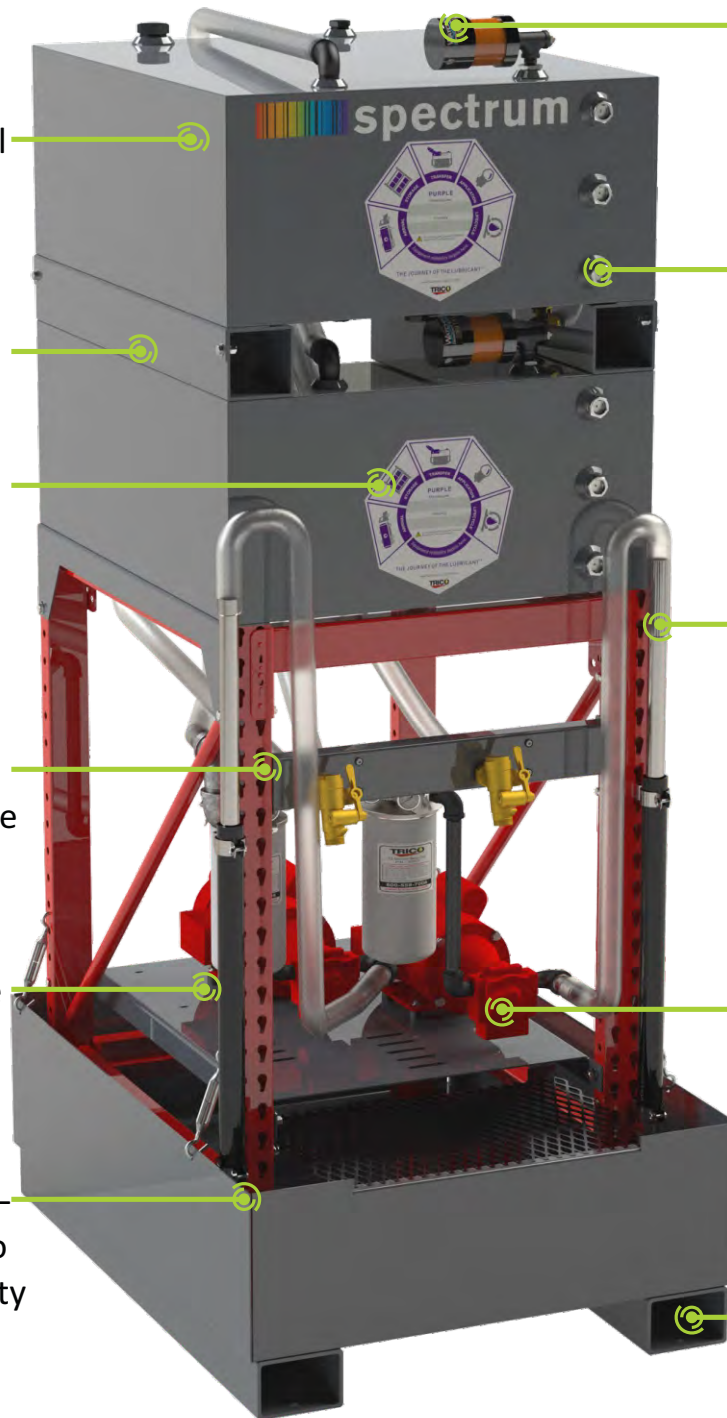
Expandable Systems – Easily add extra stacks to an existing system

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



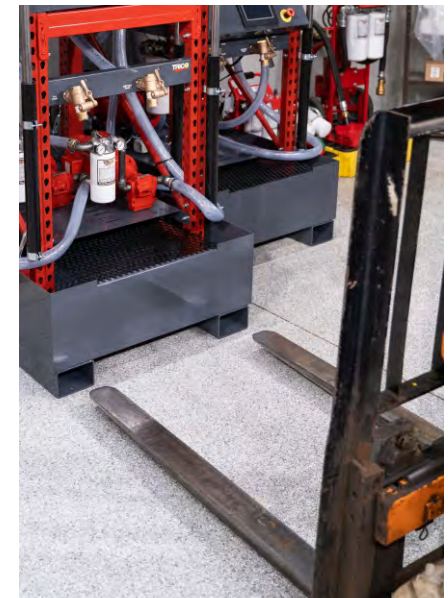
Bronze Gear Pump



HMI Touch Screen



Hand Pallet Transport



Fork Lift Transport

Essential Stack - Pump Stack

**Expandable
with Storage
Stack**

Part Number - 37200

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.



Tank Size	65 Gallons
Tank Material	Powder Coated Steel
Frame Material	Powder Coated Steel
Oil Level Indication	Viewports
Oil Type Indicator	Color-Coded Labels and Tags
Filtration	No
Filter	None
Motor	1.5 HP @ 1750 RPM
Pump Type	1 - Industrial Grade Gear Pump
Desiccant Breather	2 - Dedicated Breather for Each Tank
Wand	1 - 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	No
Power Dispense	No
Filter Life Indicator	N/A
Sampling Ports	None
Maximum Viscosity	ISO 680 at room temperature (70°F)
Power	120V 20 Amp
Rack Capacity	2500 lbs
Dry Weight	800 lbs
Shipping Skid Size	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



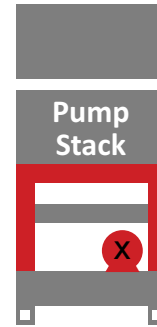
Tank Size	65 Gallons
Tank Material	Powder Coated Steel
Frame Material	Powder Coated Steel
Oil Level Indication	Viewports
Oil Type Indicator	Color-Coded Labels and Tags
Filtration	No
Filter	None
Motor	None
Pump Type	None
Desiccant Breather	2 - Dedicated Breather for Each Tank
Wand	None
Hoses	1-1/4" ID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

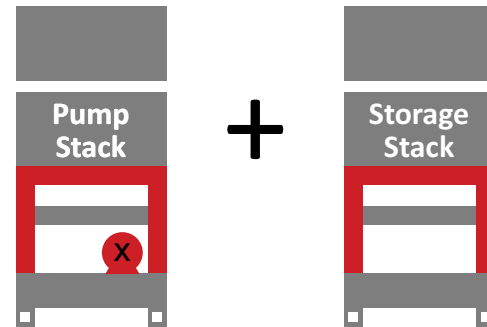
Essential Stack - Configurations



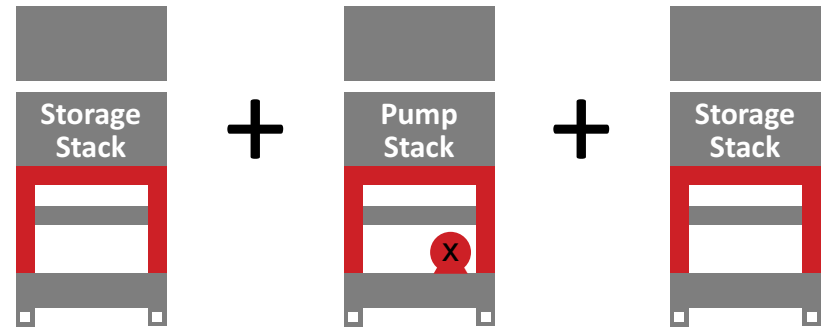
Essential Stack System - 2 Tanks



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

One pump and filter per tank.
Includes inline filtration.

WARNING

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

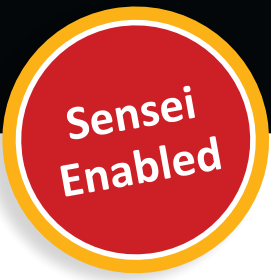
Wetted Parts Material Composition

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



Tank Size	65 Gallons
Tank Material	Powder Coated Steel
Frame Material	Powder Coated Steel
Oil Level Indication	Viewports
Oil Type Indicator	Color-Coded Label and Tags
Filtration	Inline 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 (EPA Compliant)
Dispensing Valves	Self-Closing Bronze Valves
Emergency Stop	No
Power Dispense	No
Filter Life Indicator	Pressure Differential
Sampling Ports	Post Filter
Maximum Viscosity	ISO 680 at room temperature (70°F)
Power	120V 20 Amp
Rack Capacity	2500 lbs
Dry Weight	860 lbs
Shipping Skid Size	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

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"

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

Red Orange Yellow Green Dark Green Blue Purple Gray Black Brown

Tank Shape

Square Circle Triangle Star Pentagon Cross Bolt Diamond Moon No Shape

Oil Manufacturer / ISO Grade

Enter Manufacturer Enter ISO

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

HOME UPPER TANK LOWER TANK SETTINGS ALL STOP spectrum

Manufacturer **Mobil DTE 64**

Viscosity **ISO 22**

System Status **Ready**
Last Filtered:

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

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



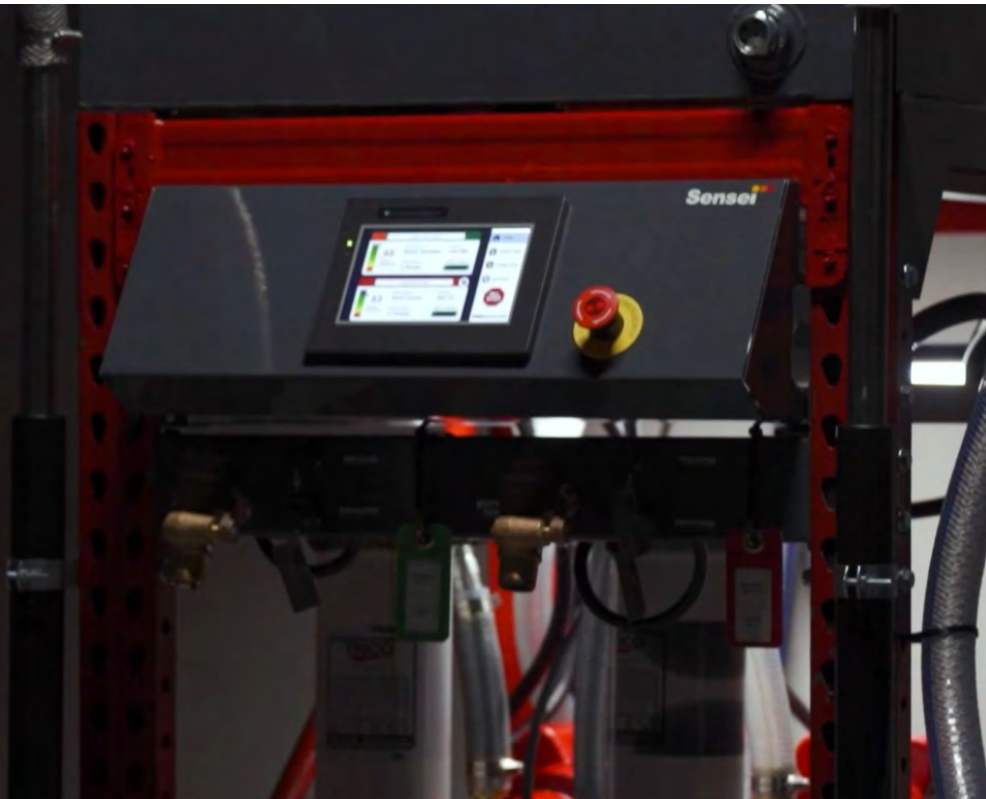
FILTER

- ✓ 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.



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. or (262) 691-9336.

Or visit tricocorp.com to discover more and get started.

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