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# Turnkey Fuel Dispensing Systems

[www.fueldispensingsystems.com](http://www.fueldispensingsystems.com)



**Highland Tank<sup>®</sup>**

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# Fuel Dispensing Systems

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Fuel dispensing applications range from small, portable fuel tanks to large fleet fueling operations, plus everything in between. Factors to consider for each fuel dispensing site include the necessary flow rate for convenient and easy dispensing and the available power source.

To determine the appropriate type of pump and configuration, there are a few questions to answer.

- What type of fuel will be dispensed?
- How many gallons are typically dispensed at a time?
- How much fuel is used each month?

Based on fueling and tank capacity, Highland Tank can recommend the best pump package for the specific criteria of each site.

Our versatile systems can be customized with the right tank to meet a range of fueling needs.

All pump package systems include:

- Fill-Rite or Red Jacket submersible pumps
- Hose, Nozzle & Swivel
- Digital Meter
- Atmospheric & Emergency Vents
- Level Gauge
- Leak Gauge
- Spill Bowl or Remote Fill
- Overfill Protection Valve
- Pump Suction Pipe
- Particulate Filter and Filter Head

Our fuel dispensing systems can be enhanced with the High-LINK® Integrated Systems equipment for accurate and secure fuel management.

***Pump systems can be delivered as assembled turnkey units on tanks up to 8' in diameter.***

Always consult with the Authority Having Jurisdiction for specific installation requirements.





# Selecting a Fuel Dispensing Package

- **What type of fuel will be dispensed?**

Our pump packages are designed for compatibility with all gasoline and diesel blends. Highland Tank can also accommodate other fuel types and dispensing of multiple fuels from multi-compartment tanks.

- **How many gallons are typically dispensed at a time?**

For low volume dispensing from small tanks, drums, and barrels, we offer manual pump systems, [SE-17R](#) and [SE-17P](#).

Highland Tank's packages ideal for fuel transfer from mobile tanks and fixed tanks for small fleet fueling, farm or construction equipment fueling, or emergency response fueling include [HL-27](#), [HL-37](#), and [HL-47](#).

When larger volume fuel dispensing is needed, we recommend [HL-57](#), [HL-67](#), and [HL-77](#).

For high volume and commercial or retail fleet fueling, we recommend [HL-87](#), [SK-97](#), and [SK-107](#).

- **How much fuel is used each month?**

For fueling applications:

Up to 500 gallons per month, we recommend these pump packages: [HL-27](#), [HL-37](#) or [HL-47](#)

For 501-3,000 gallons per month, recommended pump packages are: [HL-37](#), [HL-47](#) or [HL-57](#)

For 3,001-7,000 gallons per month, these pump packages perform best: [HL-57](#), [HL-67](#), [HL-77](#), [HL-87](#)

For 7,001 gallons or more per month, these pump systems are more than capable: [HL-77](#), [HL-87](#), [SK-97](#), [SK-107](#)



# High-LINK® Integrated Systems



## Real-time electronic monitoring of fuel, fleet, and facility operations

High-LINK® is cloud-based monitoring and management software that provides in-depth views of day-to-day operations. It includes predictive maintenance tools, extensive alerting capabilities, and automated, customizable reporting features that help users keep an eye on daily operations from anywhere, at any time, on any compatible device.

Fleet managers, fuel suppliers, facility managers, or anyone responsible for the movement, storage, or processing of liquids like fuel and water can benefit from applying High-LINK® Integrated Systems to their operation.

- Save money and increase efficiency
- Analyze data in real time
- Verify physical delivery
- Preprogrammed and custom alerts
- Auto-generated reports
- Customizable reporting



Customizable reports are available to track assets and help make informed business decisions.

MEASURE • MONITOR • MANAGE



## Tier 1 - Fuel Dispensing Systems

- Mobile and construction sites
- Storage under 4,000 gallons
  - 64" maximum height
- 12V or 120V power systems
- Tank-top pump/meter mount



# Tier 1 Small Packaged Pumping Systems

T-1 pump systems are designed for tank-top installation on tanks up to 64" in diameter or height and shorter for easy access.

Each system includes all the required components for a complete fuel dispensing system or if you prefer, it can be shipped fully assembled.

## Standard Features:

- 1" UHF auto nozzle for diesel or 3/4" for gasoline
- Whip hose with breakaway
  - 12' or 15' hose
- 40 GPM spin-on filter
- Pump suction pipe
- Emergency vent(s)

## Options:

- 20' & 25' hoses and hose reels
- Remote fill

- Leak gauge
- Swing-arm style level gauge
- Spill bowl
- Overfill prevention valve
- Atmospheric vent
- Tank-top spill bowl

- Electronic leak and overfill alarms with High-LINK® systems

HL-27 - 20 GPM



In-bed truck tanks, remote, mobile & construction site use

- Fill-Rite FR4204G
- 12VDC Operating power
- 4-Digit digital meter with pulse output

HL-37 - 20 GPM



Small fleet & fixed location installations

- Fill-Rite FR710VN
- 120VAC Operating power
- 4-Digit digital meter with pulse output

HL-57 - 35 GPM



Small fleets, higher volume output for faster turnaround

- Fill-Rite FR310VN
- 120VAC or 240VAC Operating power
- 4-Digit digital meter with pulse output



Tier 1 & 2 systems are compatible with the [FuelShield-MINI](#) and [LevelShield](#) equipment to measure, monitor & manage from your smart phone



## Tier 2 – Fuel Dispensing Systems

- Fixed sites, smaller fleets
- Storage from 1,000-20,000 gallons
  - 64" diameter/height and larger
- 120V & 240V power systems
- Pump & meter mounted on tank head



## Tier 2 Medium Packaged Pumping Systems

T-2 pump systems are designed for larger volume installations with meter and dispensing components mounted on the tank's head for convenience and accessibility. Configured for tanks 64" in diameter or height and taller, these systems allow for increased storage capacity. T-2 systems include these components as part of the complete package:

### Standard Features:

- 1" UHF auto nozzle for diesel or 3/4" for gasoline
- Whip hose with breakaway - 12' or 15' hose
- 40 GPM filter
- Pump suction pipe
- Emergency vent(s)

### Options:

- 20' & 25' hoses and hose reels
- Canopy
- Canopy light with photocell

- Leak gauge
- Clock-style level gauge
- Overfill prevention valve
- Atmospheric vent
- Remote Fill

- Electronic leak and overfill alarms with High-LINK® systems



Compatible with the [FuelShield-MINI](#) and [LevelShield](#) equipment to measure, monitor & manage from your smart phone

HL-47 - 20 GPM



Larger fleet, lower volume fuel transfer

- Fill-Rite FR713V
- 120VAC Operating power
- 4-Digit digital meter cabinet with pulse output

HL-67 - 35 GPM



Larger fleet, high volume fuel transfer

- Fill-Rite FR313V
- 120VAC or 240VAC Operating power
- 4-Digit digital meter with pulse output

HL-77 - 35 GPM - DIESEL ONLY



Large fleet, high volume fuel transfer with pump & meter housed in cabinet

- Fill-Rite FR302DPU
- 120VAC or 240VAC Operating power
- All-in-one 4-digit digital meter cabinet with pulse output and integral pump

HL-87 - 23 GPM



Large fleet, high volume fuel transfer

- Red Jacket 3/4 HP submersible pump and controls
- 230VAC Operating power
- 4-Digit digital meter cabinet with pulse output



## Tier 3 - Fuel Dispensing Systems

- Commercial & large fleet use
- Storage from 4,000-20,000 gallons
  - 64" diameter/height and larger
- 240V power systems
- Submersible pump & dispenser or pump in dispenser combination
- Skid-mounted systems



## Tier 3 Large Packaged Pumping & Skid-mounted Systems

T-3 pump systems are designed for large volume installations. These systems feature a tank-mounted submersible pump or a dispenser-mounted suction pump.

These packages have been paired with tanks from 4,000 to 20,000-gallons for maximum storage and delivery capability.

When configured on 8' diameter tanks and smaller, they can be delivered fully assembled for quick and easy integration into your operation.

### Standard Features:

- 1" UHF auto nozzle for diesel or 3/4" for gasoline
- Whip hose with breakaway  
- 12' or 15' hose
- 40 GPM filter
- Pump suction pipe

### Options:

- 20' & 25' hoses and hose reels
- Electronic leak and overflow alarms with High-LINK® systems
- Emergency vent(s)
- Leak gauge
- Clock-style level gauge
- Overfill prevention valve
- Atmospheric vent
- Remote Fill

- Pump platform and canopy
- 8' diameter tanks and larger
- Canopy light with photocell

SK-97 - 23 GPM



### Skid-mounted, large fleet, high volume, single or dual hose fuel transfer system

- Red Jacket 3/4 HP submersible pump and controls
- 230VAC Operating power
- Bennett digital dispenser with pulse output and filter

SK-107 - 23 GPM - DIESEL ONLY



### Skid-mounted, large fleet, high volume, single or dual hose fuel transfer system

- Bennett digital dispenser with suction pump, pulse output and filter
- 230VAC Operating power



Compatible with the [FuelShield](#) and [LevelShield](#) equipment to measure, monitor & manage from your smart phone



## Manually Operated Hand Pumps

Highland Tank's hand pump systems are designed for smaller volume applications. Pump and nozzle are tank-mounted for convenient product dispensing on tanks up to 1,000-gallon, 48" diameter.

Can be used with gasoline, diesel, biodiesel up to B20, E-15 and kerosene.

### SE-17R - Rotary Pump



Delivers up to 1 gallon for every 10 revolutions. Heavy-duty cast aluminum with built-in check valve and strainer.

#### Standard Features:

- Pump, nozzle spout and 8' hose
- Telescoping pump suction pipe
- Atmospheric vent
- Emergency vent(s)
- Overfill prevention valve

#### Options:

- 20' & 25' hoses and reels

### SE-17P - Piston Pump



Delivers up to 2 gallons for every 10 strokes. Heavy-duty cast aluminum fuel piston with stainless steel liner. May be set up for reverse flow.

- Pop-up Leak gauge
- At-a-Glance level gauge
- Spill bowl
- Padlock capable

- Breakaway and breakaway hoses

For use with drums and barrels in low volume applications

Manual pump packages are engineered for small applications requiring from 185 to 1,000-gallons of fuel storage and for tanks 48" and shorter.

Small manual tank/pump system can easily be delivered completely assembled for integration and use.

Manual pumps are not compatible with the High-LINK® systems.

# Featuring Fill-Rite, Red Jacket, Bennett and High-LINK® Components



- 1" Ultra Hi-Flow Gas Nozzle



- Dispenser Cabinet Metered with or without pump



- Leak and level gauges



- 3/4" or 1" Hose 12', 20' & 25' lengths



- 10-30 Micron 40-GPM Filter



- 3/4" Filter Head



- 3/4" Aluminum Diesel Nozzle



- 4-Digit Digital Display Meter



- 3/4" or 1" Mutli-Plane Swivel



- Atmospheric & Emergency Vents



- 1" Filter Head

High-LINK® equipped systems include **FuelShield**, probe and start-up services



- **FuelShield** Pedestal



- **FuelShield-MINI**

## NOTES:

1. Systems HL-77 and SK-107 systems are for diesel fuel use only.
2. Atmospheric and emergency vents are sized per UL-142 requirements.
3. SK-97 and SK-107 systems are offered as skid-mounted units. Storage tank is fabricated with a platform and canopy. Fuel dispenser and any other components are platform or tank mounted under canopy for protection. These systems are best suited for fleet fueling applications.
4. System configurations are intended as a guideline. Contact Authority Having Jurisdiction for installation specifics.
5. Consult your Highland Tank representative for assistance determining the appropriate package for your project needs.



# Selecting the Best Fuel Storage Tank

## UL-142 Tanks with Skids



Available in volumes ranging from 185 to 15,000 gallons

## Rectangular Fireguard® Tanks



Available in volumes ranging from 300 to 12,000 gallons

## UL-142 Tanks with Saddles




Available in volumes ranging from 185 to 60,000 gallons

## Cylindrical Fireguard® Tanks



Available in volumes ranging from 300 to 60,000 gallons



Safe & convenient  
fuel dispensing  
customized for  
every site

Highland Tank's turnkey fuel dispensing systems are optimized for proper filling, venting, and dispensing of fuel from a variety of tank options. Designed with multiple power options, tank size, and product storage compatibility, our fuel dispensing solutions are easily customized to suit a wide variety of fueling needs.



# Manage Fuel Inventory and Dispensing with FuelShield & LevelShield

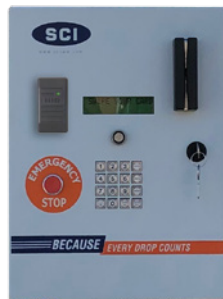
**FuelShield** is an automated, cloud-based system used to monitor and manage fueling transactions at stationary or mobile installations of retail and commercial fueling sites.

**FuelShield** is available in a variety of capacities to meet site needs and can be configured to operate as a remote terminal.

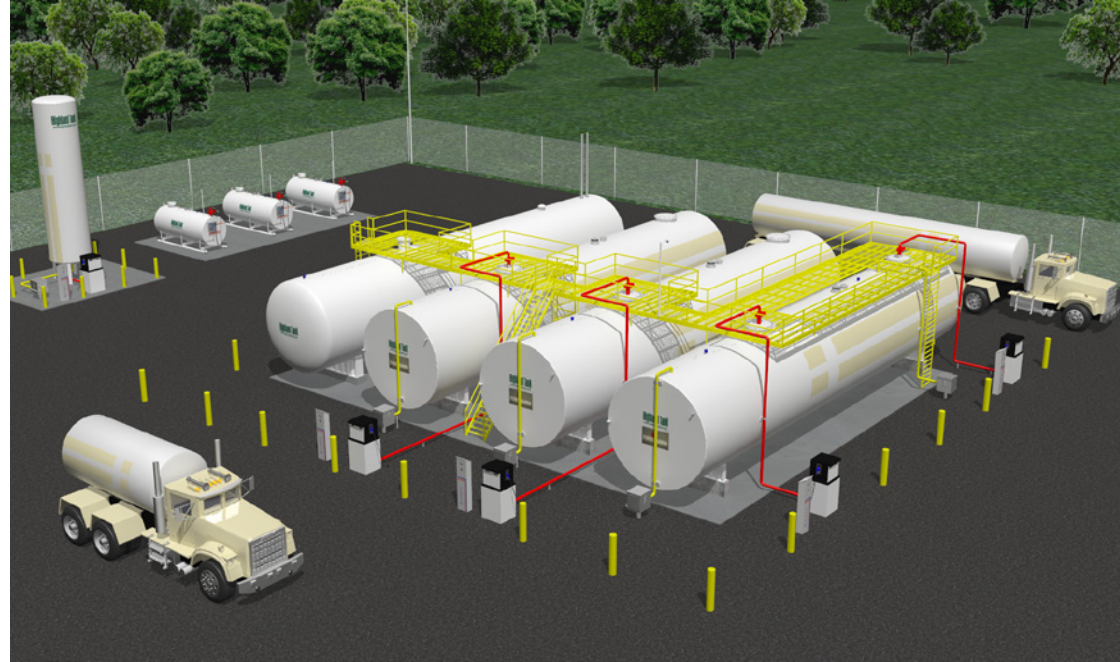
- **FuelShield** - Manage up to 8 dispenser hoses
- **FuelShield-MINI** - Manage up to 4 dispenser points
- **FuelShield-PLUS** - Includes **LevelShield** hardware and software to provide continuous tank level monitoring with all the capability of the **FuelShield**



**FuelShield-Pedestal**



**FuelShield-MINI**



- Monitor fuel transactions by vehicle, driver, fuel type, amount, cost, date, and time
- Manage fuel transport, receipt, dispensing, and consumption
- Multi-user interface is secure and convenient
- View entire operation from anywhere, anytime, on any compatible device
- Audible and visual alarms for leak and overfill

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# Highland Tank®