

Wayne
FUELING SYSTEMS

DOVER
FUELING SOLUTIONS



Wayne Helix 6000II

Dispenser Technology





Energized By Growth

fueling change around the world.

Our Purpose: We lead by delivering **intelligent products and solutions** for the world’s **evolving energy needs** that enhance the fueling and charging experience for **today and tomorrow**.

Our Values



A Collaborative
Entrepreneurial Spirit
Winning
Through Customers
Engaging
in High Ethical Standards,
Openness and Trust
Fostering
Expectations for Results
Respecting
and Valuing People

Our Vision



Enabling the evolution of consumer experience in fueling and convenience retail.

Our Mission



A leading global provider of advanced customer-focused technologies, services and solutions in the fuel and convenience retail industries.

Our Culture



A team committed to doing great things, collaborating to deliver exceptional business results for our customers. We are accountable, results-driven and create value, through innovation, continuous improvement and execution excellence.

Cultivating Excellence



Aligned
Accountable
Engaged
Problem Solvers
Customer-Centric
Celebratory in Success
Execution Champions

DFS Worldwide Brands



Value Proposition

Safety First!

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Designed with safety in mind, from assembly to installation and daily operation, Wayne fuel dispensers come with intelligent safety features as standard

- Safety-focused design that avoids working at height for expected service interventions like hose replacements due to natural wear
- Patented double-bump pipe connections minimizes faulty assembly for secure seal
- Better total cost of ownership from less service with improved protection against leaks over lifetime





Intelligent design with modular electronic head providing commonality as well as flexibility to configure functionality for more advanced user interaction

- Modular design with option for preset keyboard, dual displays and up to 5 individual unit price displays
- Engage the motorist with integrated high resolution media screen managed with our feature-rich content management solution
- Add convenience with secure outdoor payment technology

Exceptional Modularity

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Designed to offer you total flexibility to configure and customize your fuel dispenser, we offer more than 10,000 configurable combinations

- Modular design with wide range of options to address your every configuration need
- Future-proofed technology platform based on global components with easy upgrade path for dispenser media and payment
- A safe investment for years to come with modularity as an integral part of the design



Accurate Fueling Faster

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Designed for superior stability and accuracy over the lifetime of the dispenser, our fuel meter ensures accurate metering in all conditions

- Robust meter for optimal performance in all conditions
- Technology leadership with exceptional stability with minimal drift of 0.04% over 8 million liters
- Better total cost of ownership from reliable performance and minimal drift requiring recalibration during lifetime

Fuel Operation Security

Designed with field-proven electronics prepared for advanced functionality, our pump computer ensures accurate fuel delivery with strong security features to prevent tampering and fraud.

- Advanced security access and design features preventing tampering and fraud
- Future-proofed design prepared for advanced functionality like ATC, Media & Payment, Dosing as well as RDM Remote Diagnostics & Management
- Better total cost of ownership from reliable field-proven electronics for staple operation with fewer service interventions during lifetime





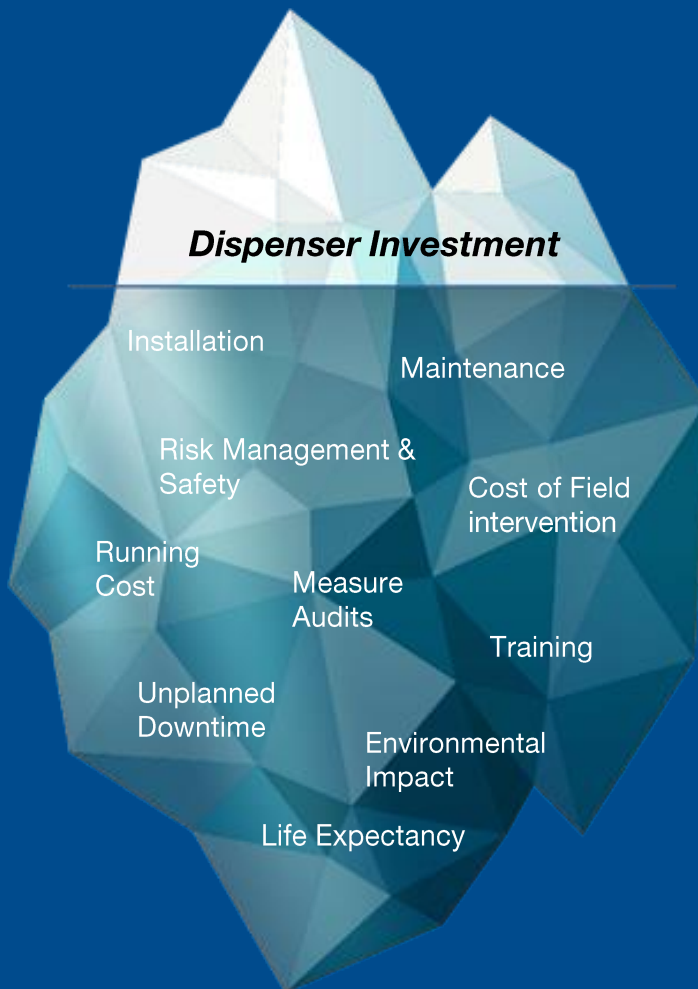
Designed with field-proven global components and corrosion resistant materials, Wayne fuel dispensers offer exceptional reliability

- Strong corrosion protection from high quality materials & design without welded corners
- Superior nozzle availability with better uptime from long-lasting quality components and leading gear pump technology for reliable longevity
- Better total cost of ownership from less service interventions required over lifetime

Designed to make service efficient and safe, Wayne fuel dispensers ensure short intervention time to minimize downtime for better Total Cost of Ownership

- Optimised for easy service access and fast intervention time with quick hose connections and hydraulic stack approach
- Designed to avoid working at height for safe service of nozzle switches and hanging hardware
- Better total cost of ownership from global components and shorter intervention time





Modern intelligent design that offers superior reliability, accurate metering and a long lifetime with less service interventions for low total cost of ownership. Technology leadership to the core!

- Reliable operation from accurate metering and stable field-proven electronics
- Built to last with strong corrosion protection, quality material and durable design using field-proven components that require less service interventions
- Better total cost of ownership from long-lasting quality delivering superior reliability with fewer parts wearing over the lifetime

Portfolio Overview

Portfolio Overview

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Based on our global technology platform, Wayne fuel dispensers are recognized for innovation, reliability and great versatility, offering almost endless configuration possibilities



Helix 5000-II



*Helix 6000-II
LHR*



*Helix 6000-II
AdBlue*



*Helix 6000-II
LPG*



Century 3



*Century 3
Screen wash*



Helix 4000-II



*Helix 6000-II
FHR*



*Helix 6000-II
Additive Dosing*



*Helix 6000-II
CNG*



*Century 3
AdBlue*



*Century 3
LPG*

Technology Leadership

Our philosophy is to offer long-lasting reliable quality! A Key factor of delivering reliable quality and low total cost of ownership is our industry leading component technology



Field-Proven Electronics

- Optimal flow control
- Strong security features
- Staple performance in field



Superior Meter Stability

- Minimal drift piston meter
- Accurate fueling faster
- Robust meter design



Reliable Hydraulic Systems

- Long-lasting performance
- Reliable pressure system or
- Robust gear-pump for suction

Engineered for low total cost of ownership from staple field performance, our advanced iGEM2.5 electronics is designed to a high specification using quality components to ensure reliability and operational performance as well as computing power for advanced functionalities.

- **Staple field performance**

Reliable hardware platform with future-proofed computing power for new functionalities like our industry-leading RDM feature enabling connected dispenser features like remote access and remote management of our fuel dispensers.

- **Strong security features**

Advanced security access and strong security design features preventing tampering and fraud

- **Advanced flow control**

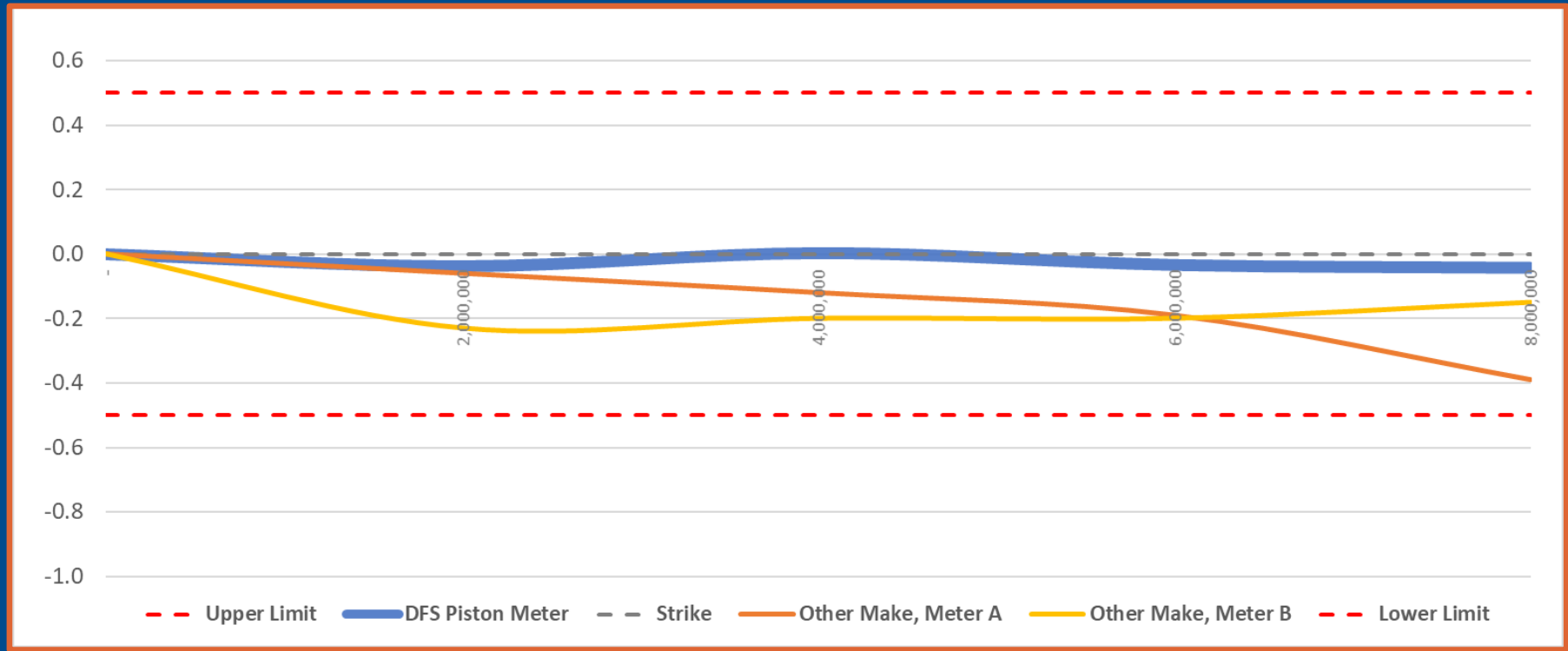
iGEM2.5 electronics also offers advanced valve control supporting accurate metering functionalities like preset & pay@pump as well as automatic temperature compensation, blending and additive dosing.



Superior Meter Stability

It's the most critical component in any fuel dispenser, yet not all meters are created equal...

Our industry-leading piston meter technology has a robust design engineered to deliver reliable performance over the lifetime of the dispenser; our fuel meter maintains exceptional stability with minimal drift of 0.04% over 8 millions litres.



Minimal Drift Meter

- Positive drift well within legal tolerance of +/- 0.5%
- Less than 0.04% drift over 8 millions litres

Our industry-leading piston meter technology has a robust design engineered to deliver reliable performance over the lifetime of the dispenser maintaining exceptional stability with minimal drift for low total cost of ownership.



- **Minimal Drift Meter**

Designed for reliable performance over the lifetime of the dispenser, our fuel meter maintains exceptional stability with minimal drift of 0.04% over 8 millions liters.

- **Accurate Fueling Faster**

Designed to minimize pressure drop with an optimized fluid path, using industry-best data resolution of 400 pulses per liter for accurate measures across a wide range of flow rates.

- **Robust Meter Design**

Our meter is designed to prevent leakage with meter outlet check valve and internal crankshaft to resist pressure spikes, and is engineered with a single piece casted crankshaft and optimized yoke guidance to minimize wear & tear.

Our dispensers benefit from our robust field-proven piston meter delivering reliable performance with all fuel types



- Versatility for superior reliability
The DFS Piston meter has a robust design assembled with a single piece casted crankshaft and optimized yoke guidance to minimize wear & tear and work reliably and accurately with a variety of fuel types in even the harshest of conditions. The meter offers excellent fluid compatibility and extreme temperature range for operations from -40°C to +60°C
- Robust design to prevent meter leakage
Designed with check valve located on the meter outlet for strong resistance to leaks caused from pressure spikes from hoses being driven over, and to dramatically reduce the risk of leaks with internal crankshaft, ring-fenced meter covers and use of resilient fluorosilicone O-rings which provide excellent fluid compatibility.

Our dispensers benefit from intelligent design for strong protection against tampering.



- Strong design safeguarding the integrity of the meter
Engineered without gears & with both the crankshaft and the pulsar inside the meter housing to prevent tampering.
- Intelligent data security to prevent fraud & theft
The pulsar is engineered with removal detection as well as mutual authentication between the pulsar & the pump computer, which communicates via an encrypted high-speed serial link.
- Electronic Calibration
Our patented two-step electronic calibration provides quick and easy verification.

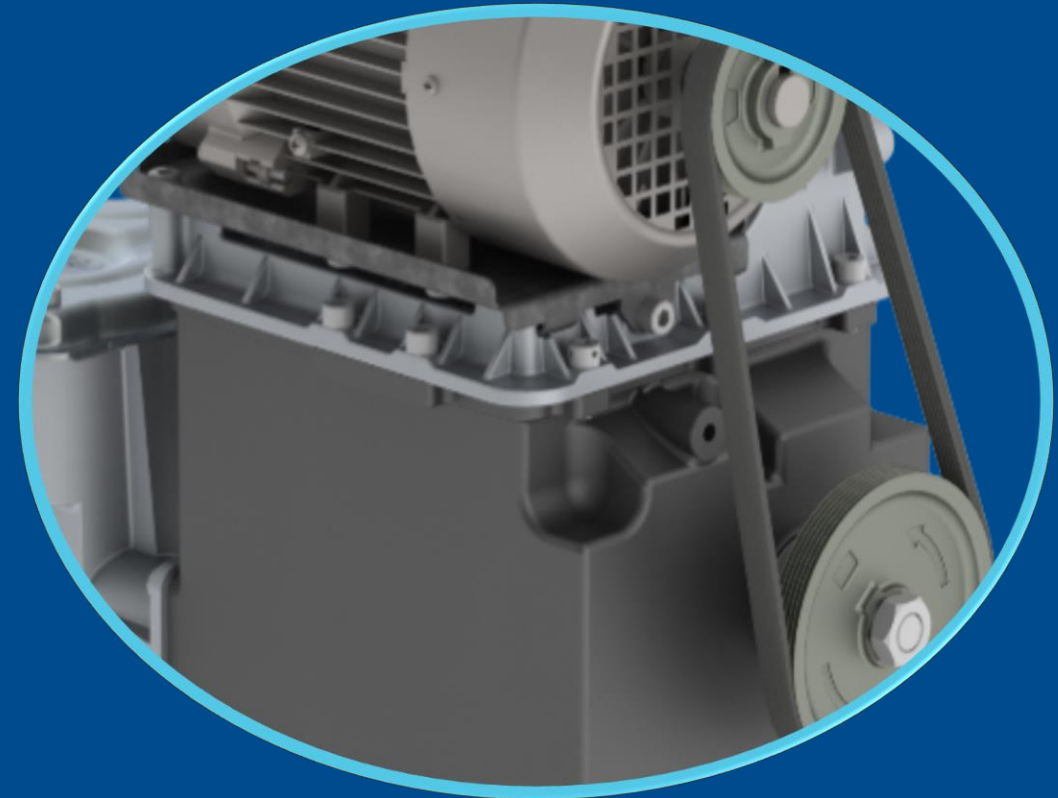
DFS is leveraging decades of expertise in hydraulic innovation utilizing our field-proven best of the best core components to ensure retailers benefit from reliable performance and low TCO.

■ Remote Pressure

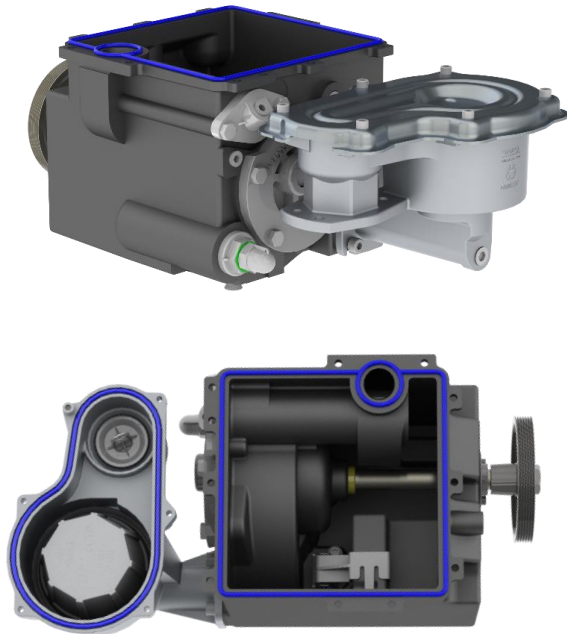
Designed to minimize potential leaks and deliver optimal flow control for an excellent fluid path, our field-proven remote pressure hydraulic system operate on some of the world's most busy forecourts.

■ Suction

Designed with leading gear-pump technology our suction hydraulic system offer strong leak protection and reliable operational performance from our robust field-proven pumping units mounted with lowest center of gravity for minimal vibration and lower suction depth.

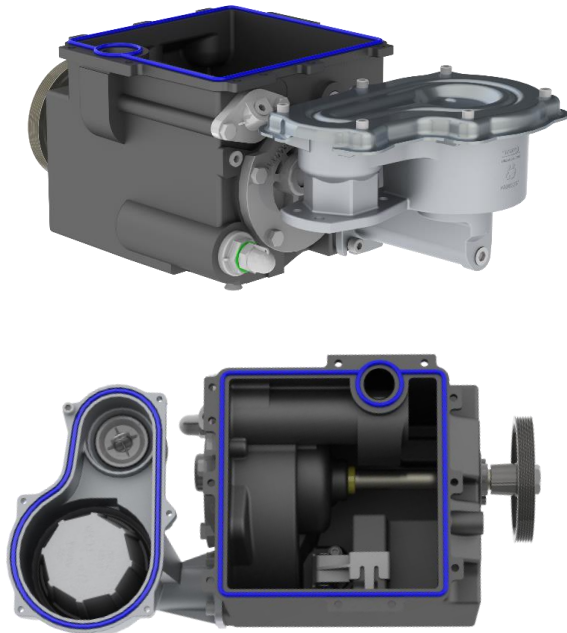


Our field-proven best of the best gear pump technology offer more efficient fueling with less noise and reduced risk of leaks compared with competitive designs.



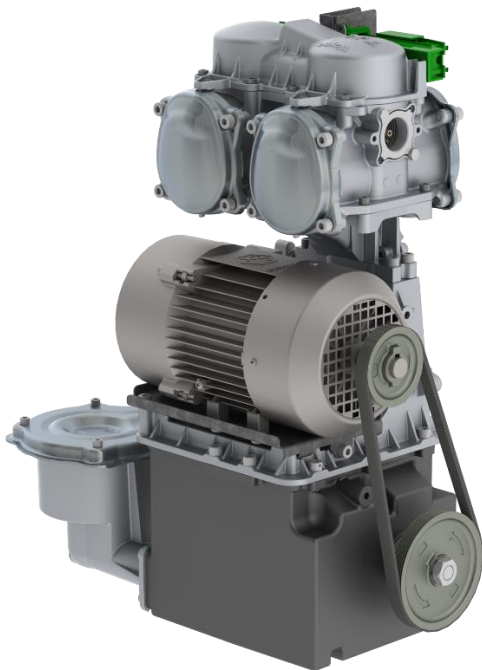
- Less vibration & noise
Positive displacement gear pump cause less vibration than vane-style pumps resulting in less noise and less vibration, reducing the risk of leaks caused by vibration strain on fuel tube assemblies and bracketry. Our design offer additional stability from the positioning of the pumping unit below the motor for a lower center of gravity.
- Compatibility for all fuel types
Designed with fewer leak paths our pumping unit is designed with quality materials and seals for excellent fluid resilience for durability with all fuel types in a broad range of temperatures.

DFS dispensers features our field-proven positive displacement gear pump technology for a lifetime of reliable performance for low total cost of ownership.



- **Optimal flow**
Field-proven design for optimal flow with minimal efficiency loss from static air separation from continuous recirculation of the fluid without any wear for low TCO.
- **Robust design**
Gear pumps are more robust and less sensitive to dirt and particles in the fuel than vane-style pump, significantly reducing the risk of breakdown and severe repairs.
- **External filter pot**
Additional protection with external filter pot and optional re-useable filter for easy intervention for filter cleaning.

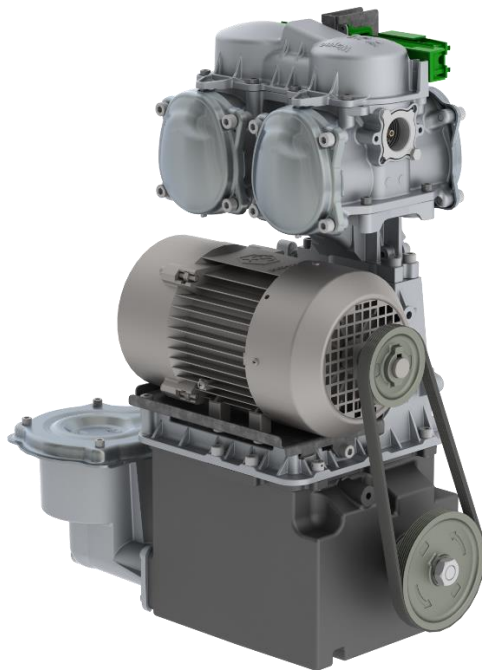
DFS has standardized only on gear pump technology for both retail and high flow capacity dispensers, as gear pump technology offers better durability and reliability than vane-style pumps, offering superior performance and low TCO.



- Maintenance free design
Our maintenance free self-lubricating gear pump has guided path for moving parts to prevent breakdown and repairs. No blade to replace from wear as gear pumps avoids the friction between the housing and the blade seen with vane-style pumps.
- Self-tensioning belt
Engineering excellence with less operational vibration with cast-iron pulley and self-tensioning belt that reduces heat from belt friction for minimal wear to ensure durability.

High-Capacity Pumping Unit

Designed for high-capacity flow using positive displacement gear pump technology for reliability and lowest TCO.



- Designed for reliability in all conditions
Robust versatile design with superior lifetime performance from durable materials and high-quality componentry including fuel resistant seals compatible with a broad range of fuels for reliable performance in a wide temperature range
- Optimal performance from maintenance free design
Compact self-lubricating design with guided path for moving parts to avoid wear for enduring operation. Engineering excellence with less operational vibration from aluminum housing, cast-iron pulley and self-tensioning belt technology for minimal wear and easy maintainability.

Stage II vapour recovery (VR2) system with direct coupling eliminating pulley belt used on alternative system, avoiding wear & tear for low TCO.



- **Electronic Vapour Recovery (EVR)**
Robust field-proven electronic VR2 system to ensure environmental compliance from reliable vapour recovery performance.
- **Self-Calibrating Electronic Vapour Recovery (SC-EVR)**
Field-proven VFM technology providing an automatic vapour recovery monitoring system that continuously checks the recovery performance and proactively regulates the vapour flow in a closed loop system to ensure compliance with environmental codes.

Patented Double-Bump Connections

DFS dispensers features our patented double-bump technology for tube assembly, which eliminate risk of leakage and enable efficient service.



- Reduced risk of leakage
Intelligent poka-yoke design which prevents wrong assembly to eliminate human error and the potential risk of leakage otherwise possible with flared connections. Our design utilizes fuel resilient fluorine silicone O-rings to reduce risk of leakage over the dispenser's life-time.
- Excellent serviceability
Our double-bump system reduces intervention time compared with flared tube connections. Quick tube removal and insertion, then simply snap in place and secure with lock pin.

Wayne Helix 6000II



Field-proven best of the best of the best components and industry leading corrosion protection ensures long-lasting quality and reliable performance for lowest Total Cost of Ownership

- Superior modularity with models for wide range of fluids, flow rates and options to suit any site or application.
- Reliable electronics and certified metering accuracy from field-proven technology delivering exceptional stability with minimal drift.
- Robust hydraulic system with field-proven gear pump technology and quality materials for excellent fluid compatibility delivering reliable quality for superior nozzle availability.

Conventional & Alternative Fuel Models

Designed for both conventional and alternative fuels, Helix 6000II offer you total flexibility to configure and customize your dispenser to your every need



Conventional Fuels

- Suction or Remote Pressure
- Up to 5 grades
- Up to 10 nozzles
- Multiple flow rates



AdBlue

- Remote Pressure
- 1 Grade or Back-2-Back
- Up to 4 nozzles (10 as B2B)



LPG

- Remote Pressure
- 1 Grade or Back-2-Back
- Up to 2 nozzles (10 as B2B)



CNG

- Remote Pressure
- 1 Grade or Back-2-Back
- Up to 4 nozzles (10 as B2B)



Light Hose Retraction (LHR)

- Hose Reach 3.5 meters
- Free Reach 2.5 meters



Full Hose Retraction (FHR)

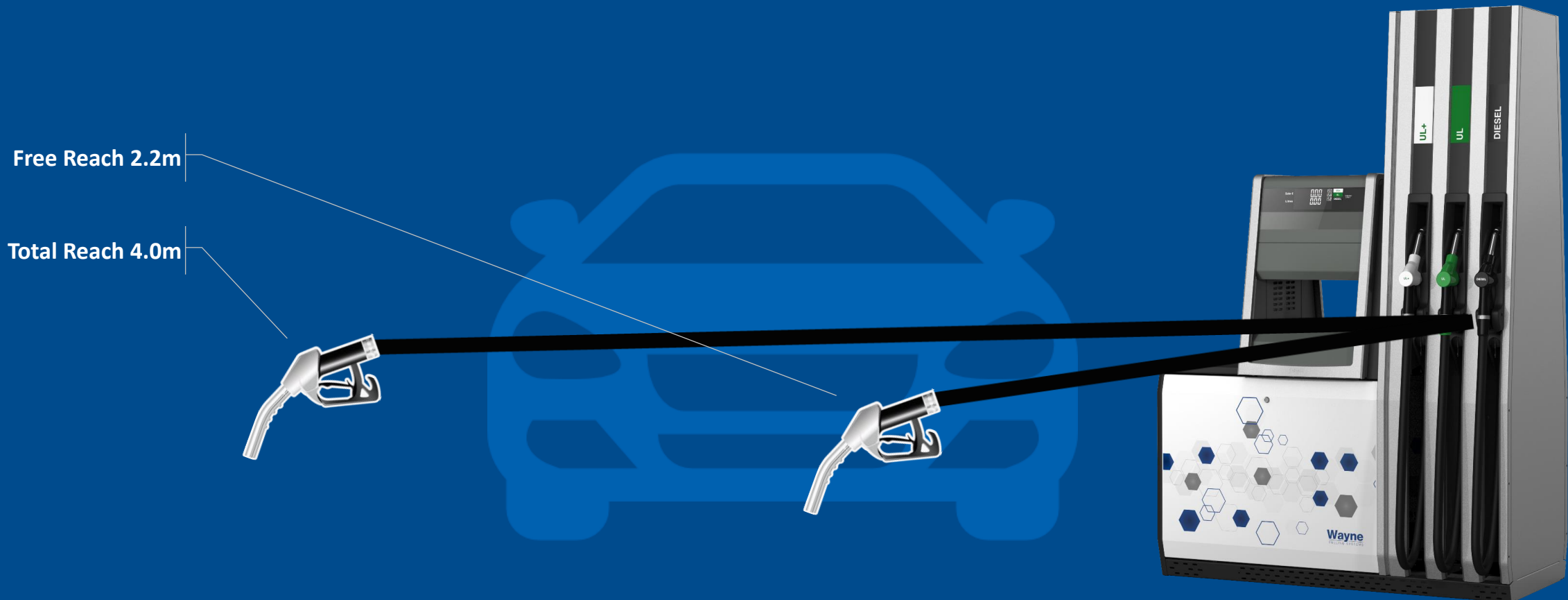
- Hose Reach 4.0 meters
- Free Reach 2.2 meters

We offer almost endless configuration possibilities including choice of hose management

- **LHR:** Hose reach without heavy pull force
Our innovative hose guidance system use a bungee-cord system to retract the hose back into the hose cabinet, offering hose reach at lowest TCO by eliminating the need for a mechanical hose retraction system that can wear over time
- **FHR:** Long hose reach with ease of use
Improved design to offer long hose reach to enable motorists to use less pull force to reach from every filling position even when parked with tank inlet on opposite side of their car.

Full Hose Retraction

Field-proven hose retraction design with minimal pull force required. Users benefit from long reach with less pull force providing hose reach of 2.2m (free reach) without any need for pull force and total reach of 4.0m to enable filling up even if inlet is on opposite side of the car.

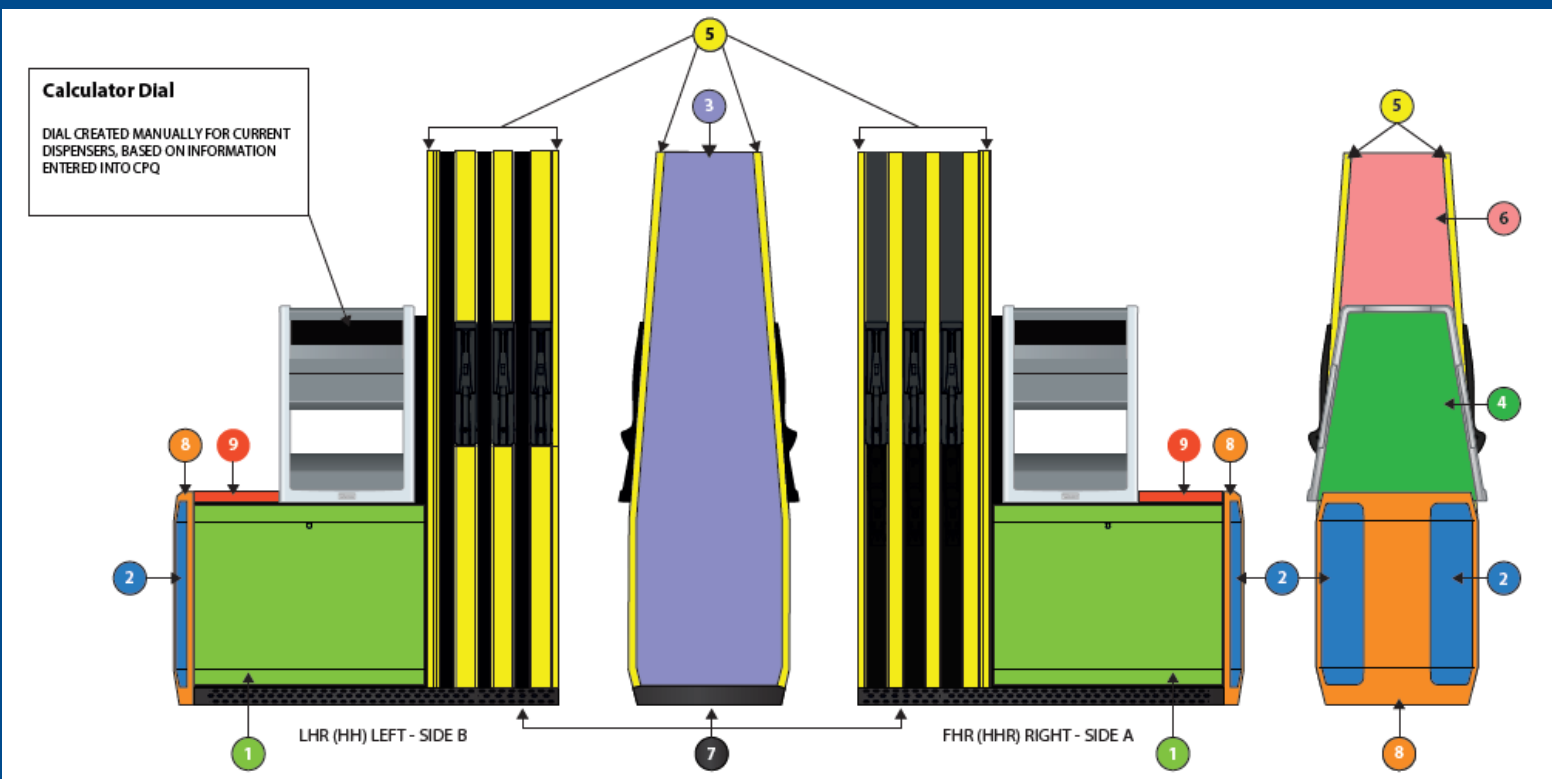


Superior flexibility for customer branding with our trusted corrosion protection from our leading paint technology



Number	Material	Details
1	Hardened glass	No risk of yellowing and hardened to withstand accidental nozzle impact
2	Coloured injected moulded plastic	Nozzle boot plastic specified for continuous expose to fuel and chemical vapours and liquids without significant fading. Plastic is coloured through to maintain colour despite scratches
3	Powder painted hot dipped galvanized steel	Bent sheet metal without any welding, protected with high quality paint for protection to C4 standard
4	Powder painted Aluminum	Aluminum protected with high quality paint for protection to C4 standard
5	Powder painted hot dipped galvanized steel	Bent sheet metal without any welding, protected with high quality paint for protection to C4 standard
6	Powder painted hot dipped galvanized steel	Bent sheet metal without any welding, protected with high quality paint for protection to C4 standard
7	Powder painted hot dipped galvanized steel with Vinyl Wrap	Bent sheet metal without any welding, protected with high quality paint for protection to C4 standard. Logo and design provided through vinyl wrapping
8	Powder painted hot dipped galvanized steel	Bent sheet metal without any welding, protected with high quality paint for protection to C4 standard

Designed with field-proven quality components and corrosion resistant materials for a lifetime of reliability and low total cost of ownership



	No.	Name	Customisable	Code
	1	Hydraulic Door	Yes	RAL
	2	Small Side Panels (Kidneys)	Yes	RAL
	3	Large Column	Yes	RAL
	4	Bezel Cover (option)	Yes	RAL
	5	Nozzle Panels	Yes	RAL
	6	Top Tech Column	Yes	RAL
	7	Base Frame	2 OPTIONS	RAL7021 / SHELL GREY
	8	Side Panel	Yes	RAL
	9	Hydraulic Top Panel	Yes	RAL



We offer a complete solution for digital media with T-Media and integrated digital media screens that turns your fuel dispensers into a promotional powerhouse

- **Enhanced Customer Engagement**
Media content interacts with the customer based on dispenser activity for enhanced engagement compared to simple loop play
- **Proven Effectiveness**
Event-driven media has proven effectiveness compared to other forecourt signage as the media content is synced to the customer's interaction with the fuel dispenser to ensure play to a captive audience

Boost Sales & Profit Margins with Digital Media integrated in your dispenser

Connected Dispenser Solution

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We offer true Wayne innovation with connected dispenser functionality to enable remote diagnostics & troubleshooting with advanced IoT technology to resolve issues without dispatch of field tech to site

- Reduce time to identify root cause with advanced remote diagnostics
- Reduce downtime with advanced trouble-shooting & remote fix capability
- Reduce maintenance cost with connected dispenser technology



Portfolio & Model Overview

Wayne Helix 6000II – Model Overview

Wayne technology with true modularity for up to five grades in shared hose cabinet and choice of hose retraction



Wayne Helix 6000II

Orientation: Lane (Dual-sided or Single-sided)

Hydraulic System: Suction or Remote Pressure

Grades available: 1 to 5

Nozzles available: 1 to 10

Flow Rates available: 40, 40-70, 70, or 120 LPM

Hose Reach: 4.0m with FHR, 3.5m with LHR

Electronics: iGEM pump computer

Metering: Piston Meter or Xflo. Optional ATC

Vapour Recovery: EVR or SC-EVR options

Options: Extensive range of optional extras available

Pump Media: 12” Digital screen for T-Media available

Payment: Integrated payment options available

Model	Length	Width	Height
H6000-II 1-X-1	920	600	2050
H6000-II 2-X-2	1060	600	2050
H6000-II 3-X-3	1440	600	2050
H6000-II 4-X-4	1820	600	2050
H6000-II 5-X-5	2200	600	2050

Wayne Helix 6000II Additive Dosing - Model Overview



Wayne technology using additive dosing to expand offer up to five grades in shared hose cabinet and integrated tank and dosing system



Wayne Helix 6000II Additive

Orientation: Lane (Dual-sided only)
Hydraulic System: Suction or Remote Pressure
Additive modules available: 1 or 2 (each 40 ltr tank capacity)
Dosing range: 500 to 3600 ppm
Grades available: 1 to 5 (incl dosed grades)
Nozzles available: 1 to 10
Flow Rates available: 40, 40-70, 70, or 120 LPM
Hose Reach: 4.0m with FHR (LHR not available)
Electronics: iGEM pump computer
Metering: Piston Meter or Xflo. Optional ATC
Vapour Recovery: EVR or SC-EVR options
Options: Extensive range of optional extras available
Pump Media: 12" Digital screen for T-Media available
Payment: Integrated payment options available

Wayne Helix 6000II AdBlue – Model Overview



Wayne technology for Adblue with true modularity for up to four nozzles in shared hose cabinet and choice of heating. Available as standalone or back-2-back

Available also as back-to-back



Wayne Helix 6000II AdBlue

Orientation: Lane (Dual-sided or Single-sided)
Hydraulic System: Remote Pressure (Suction not available)
Grades available: 1
Nozzles available: 1 to 4
Flow Rates available: LV 10 or HV 20 LPM
Hose Reach: 4.0m with FHR (LHR not available)
Electronics: iGEM pump computer
Metering: Piston Meter (Xflo not available)
Heating: ATEX heating (non-ATEX heating not available)
Options: Extensive range of optional extras available
Pump Media: 12” Digital screen for T-Media available
Payment: Integrated payment options available

Model	Length	Width	Height
H6000-II 1-X-1	920	600	2050
H6000-II 2-X-2	1060	600	2050

Wayne Helix 6000II LPG – Model Overview



Wayne technology for LPG with true modularity available as standalone or back-2-back

Available also as back-to-back



Wayne Helix 6000II LPG

Orientation: Lane (Dual-sided or Single-sided)

Hydraulic System: Remote Pressure

Grades available: 1

Nozzles available: 1 to 2

Flow Rates available: 50 LPM (max 25 bar)

Hose Reach: 3.9m with hose retraction

Electronics: iGEM pump computer

Metering: GPL700 meter

LPG options: Extensive range of optional extras available

Options: Extensive range of optional extras available

Pump Media: 12” Digital screen for T-Media available

Payment: Integrated payment options available

Model	Length	Width	Height
H6000-II 1-X-1	1060	600	2050

Wayne Helix 6000II CNG – Model Overview



Wayne technology for CNG with true modularity for up to four nozzles in shared hose cabinet. Available as standalone or back-2-back

Available also as back-to-back



Wayne Helix 6000II CNG

- Orientation: Lane (Dual-sided or Single-sided)
- Hydraulic System: Remote Pressure
- Grades available: 1
- Nozzles available: 1 to 4 (NGV1 & NGV2 available)
- Flow Rates available: up to 80 kg/m (max 260 bar)
- Hose Reach: 4.39m with hose retraction
- Electronics: Pump computer
- Metering: Mass flow meter
- CNG options: Extensive range of optional extras available
- Options: Extensive range of optional extras available
- Pump Media: 12” Digital screen for T-Media available

Model	Length	Width	Height
H6000-II 1-X-1	893	600	2050
H6000-II 2-X-2	1225	600	2050

A Safe Investment for Years to Come

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Our innovative design, quality materials and best of the best components ensures reliable performance for superior nozzle availability and low TCO

- Reliable electronics, exceptional metering stability for minimal drift and robust hydraulic system with field-proven gear pump technology and quality materials for excellent fluid compatibility delivering reliable performance for superior nozzle availability.
- True Wayne innovation with advanced IoT technology connecting the dispenser to the cloud and our powerful DX platform for monitoring and advanced remote management capabilities for low TCO
- A safe investment for years to come with future-proofing modularity and our durable design that benefits from field-proven components and corrosion resistant materials for a lifetime of reliable performance. Technology Leadership to the Core!



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Wayne fuel dispensers are known for its leading technology in all core components, and are industry recognized for innovation, performance & low total cost of ownership

■ ***Superior Meter Accuracy***

Designed for reliable performance over the lifetime of the dispenser, our quality meter provides exceptional accuracy.

■ ***Reliable Performance***

Continuously raising the bar with innovation and intelligent design, our field-proven core components are recognized for its superior technology delivering reliable performance.

■ ***Total Cost of Ownership***

Innovative design offering reliable performance, exceptional meter stability and a long life with less service interventions for low total cost of ownership.

