



Dispenser Technology – Wayne Helix 5000-II

Product Enhancements

March-2023

DFS *Worldwide* Brands

Wayne
FUELING SYSTEMS

OPW
FUEL MANAGEMENT SYSTEMS

ClearView
DISPENSER TECHNOLOGY

TOKHEIM

ProGauge

fairbanks

WE
ARE

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



WE
ARE

OUR VISION

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



WE
ARE

OUR MISSION

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



WE
ARE

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.



WE
ARE

CULTIVATING EXCELLENCE

Aligned

Accountable

Engaged

Problem Solvers

**Customer-
Centric**

**Celebratory in
Success**

**Execution
Champions**



Meet Wayne Helix 5000-II

Product Enhancements



Leveraging decades of hydraulic innovation, we have re-imagined the Helix 5000 model and designed a new and improved fuel pump packed with leading technology for reliable performance.

Our innovative modular design, quality materials and best of the best components ensures superior nozzle availability and low TCO.

Helix 5000-II
Full Hose Retraction

Reliable Performance through Technology Leadership offering True Modularity and Configuration Flexibility

- Innovative design with superior technology and long-lasting quality from field-proven best of the best componentry and corrosion resistant materials ensuring durability and reliable performance
- Intelligent modular design with models for wide range of fluids, flow rates and options to suit any site or application
- Modern reliable design that provides accurate metering and a long life with less service interventions for low total cost of ownership



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

- 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
- Reliable electronics and certified metering accuracy from field-proven technology delivering exceptional stability for minimal drift
- Robust hydraulic system with field-proven gear pump technology and quality materials for excellent fluid compatibility delivering reliable performance for superior nozzle availability
- 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



Helix 5000-II

What's New?

True Wayne Innovation providing Remote Connectivity and Reliable Performance for Superior Nozzle Availability from Wayne Technology Leadership

- Improved hydraulic system based on field-proven gear-pump technology in new stack arrangement for reduced vibration & noise.
- Improved nozzle availability from enhanced durability with suction stack redesigned with cast-iron pulley and self-tensioning belt technology for reduced wear and better TCO.
- Improved maintenance with quick hose connections and magnetic breakaways
- Improved maintainability with better access to pipework. Patented double-bump tube connections and external filter-pot as standard.
- Advanced IoT technology connecting the dispenser to the cloud and our powerful DX Platform for advanced management capabilities for low TCO



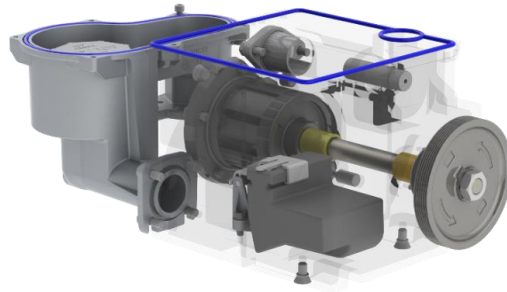
Improved Hydraulic Suction System

Improved hydraulic system based on field-proven best of the best gear-pump technology in new arrangement for reduced vibration & noise with same reliability & performance

■ New stack arrangement



■ New cast-iron pulley & self-tensioning belt system



■ New sealed connection



■ Improved TCO with reliable performance and reduced wear & tear

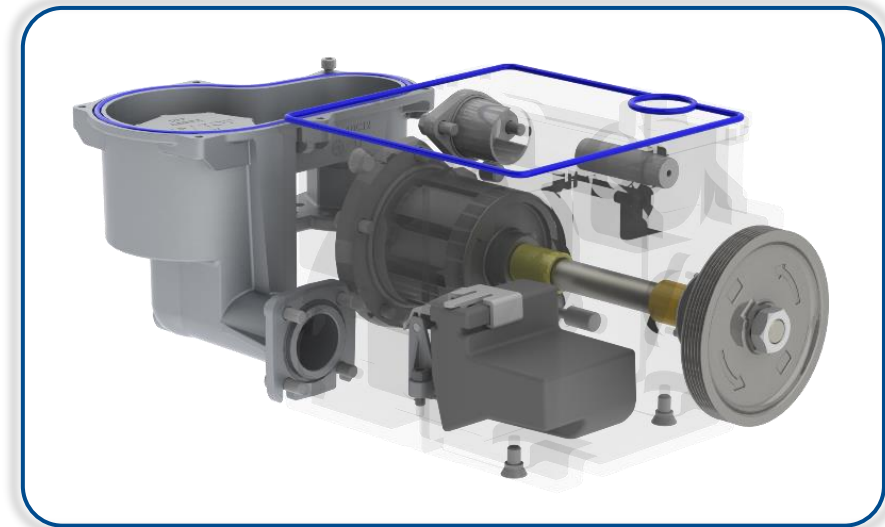
Our field-proven best of the best gear pump technology offer more efficient fueling with less noise and reduced risk of leaks compared with competitive designs

Less vibration & noise

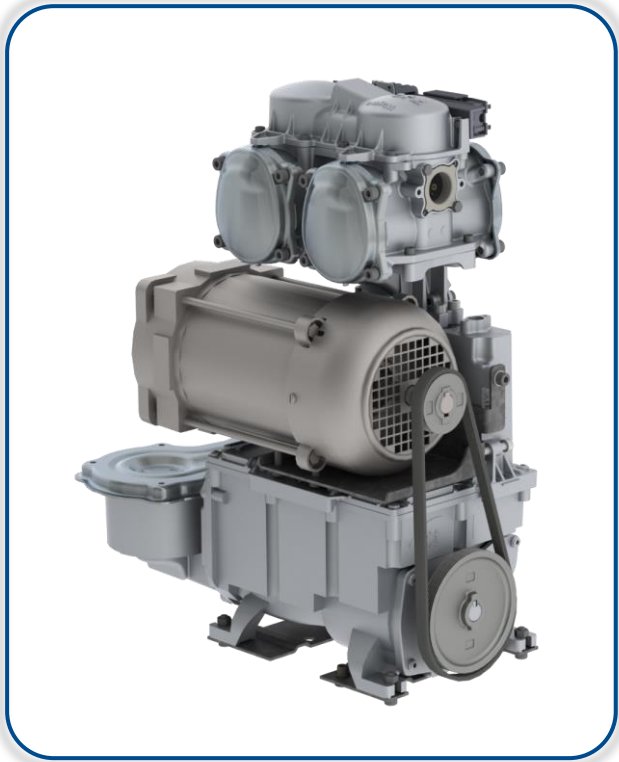
- Gear pump cause less vibration than vane-style pumps resulting in less noise and less vibration, reducing the risk of leaks caused by vibration strain on tube assemblies and bracketry. Our design offer additional stability from the positioning of the pumping unit below the motor for a lower point of gravity.

Versatility for all fuel types

- Our hydraulic system is designed with quality materials incl fluor silicone seals for excellent fluid resilience for durability with all fuel types in a broad range of temperatures.



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.

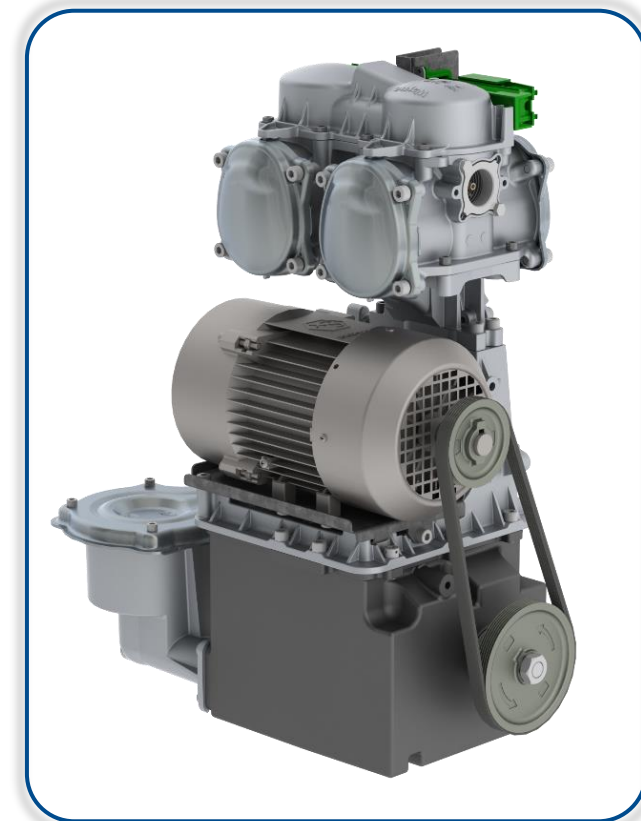
DFS is standardizing on gear pump technology for both retail and high flow capacity dispensers, as gear pump technology offers better durability and reliability than vane-style pumps, offering superior performance and low TCO

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.



Improved stage II vapour recovery (VR2) system with direct drive form combined motor and pump unit, eliminating 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)

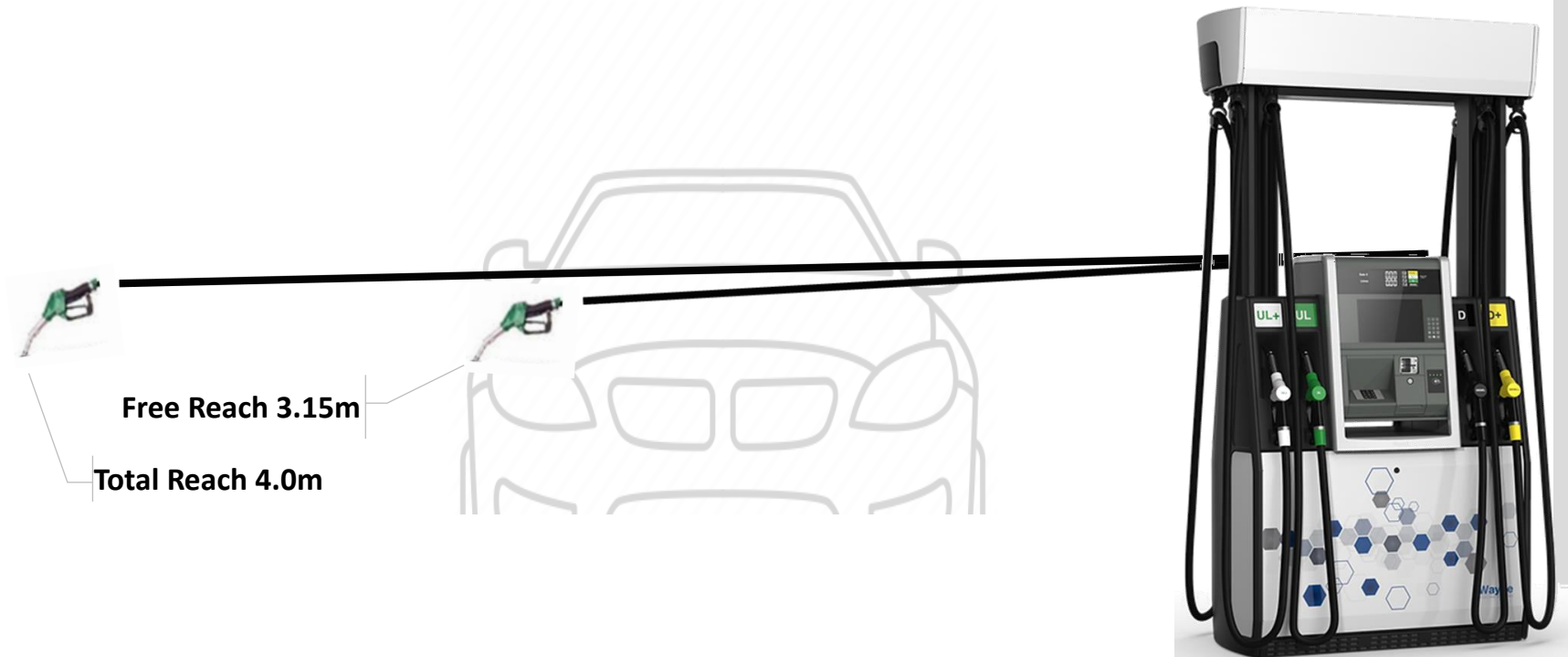
- Field-proven VFM technology providing an automatic vapour recovery monitoring system that continuously checks the recovery performance and proactively regulates the vapour flow in a closed loop system to ensure compliance with environmental codes.

Improved hose retraction system for better user experience that requires less pull force for long reach

- Field-proven design improved to require less pull force, offering minimal wear & tear and ease of use even for long reach
- Users benefit from long reach with less pull force providing hose reach of 3.15m (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

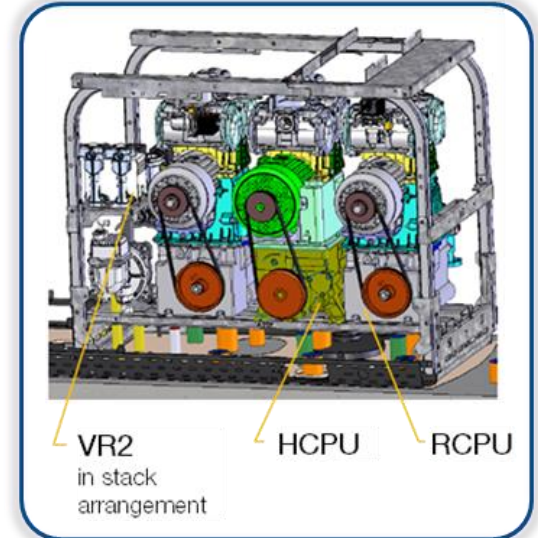
Hose Reach

- Free reach is measured from the dispenser to its furthest nozzle reach at a height of 1 meter without engaging the retraction system
- Total reach is measured from the dispenser to the fullest pull of the nozzle at a height of 1 meter

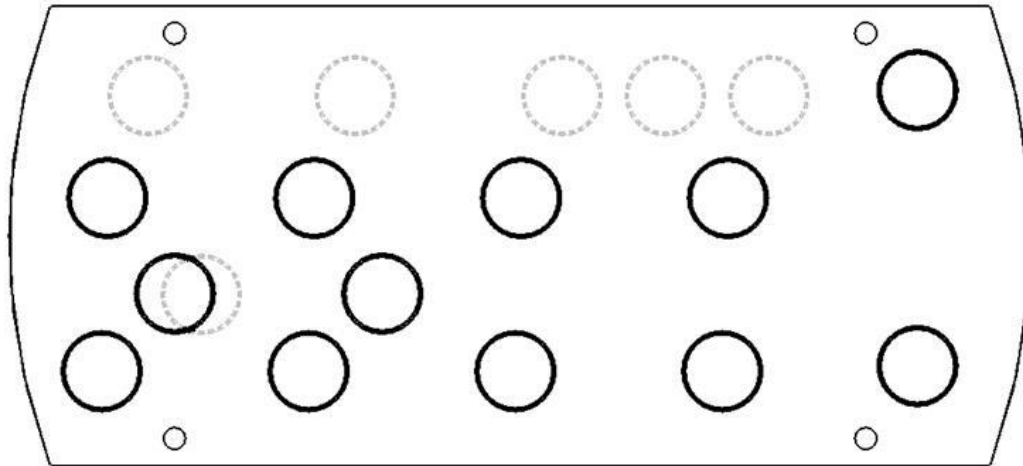


Helix 5000-II standardizes on the positioning of inlet connections

- Improved height underneath stacks for connection to riser pipework
- Inlet position is opposite current Helix stack. Optional pump replacement kit for low cost of change without pipework modification



..... Helix 5000 Legacy
___ Helix 5000-II



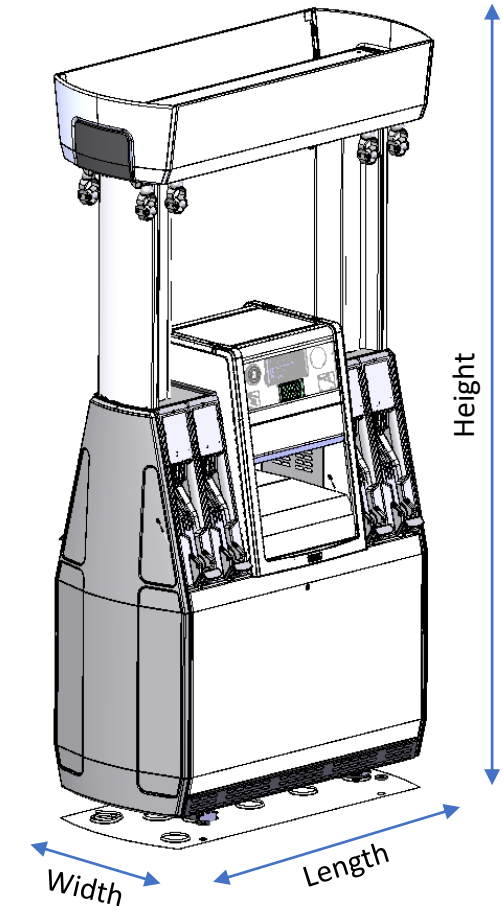
Helix 5000-II has same footprint for low cost of change when replacing aged dispensers

■ **Helix 5000**

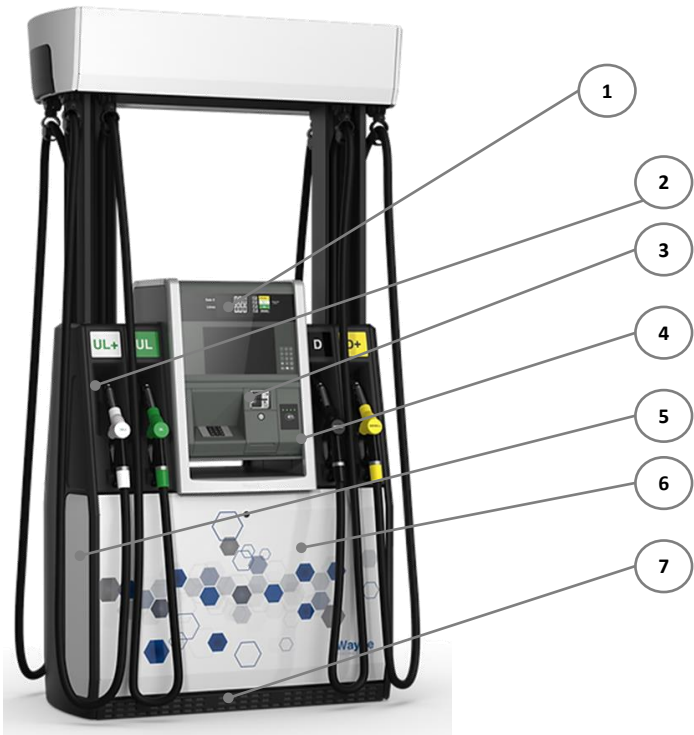
Configuration	Height	Length	Width
Without Valance	2268	1298	669
With Valance	2368	1328	

■ **Helix 5000-II**

Configuration	Height	Length	Width
Without Valance	2268	1298	669
With Valance	2368	1328	

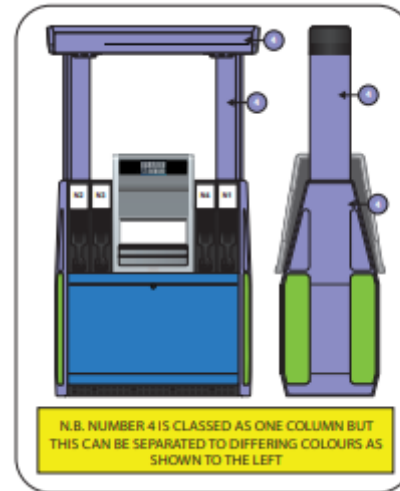
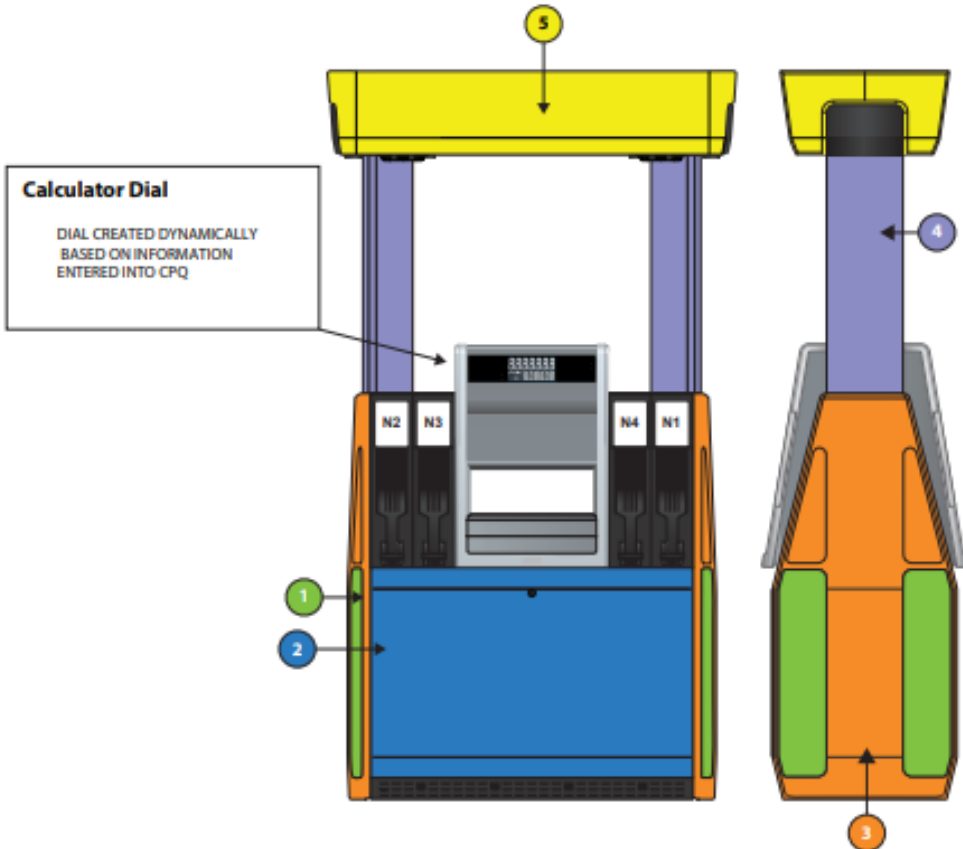


Designed with field-proven quality components and corrosion resistant materials for a lifetime of reliability



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 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
7.	Powder painted hot dipped galvanized steel	Bent sheet metal without any welding, protected with high quality paint for protection to C4 standard

Greater flexibility for customer branding with same trusted corrosion protection through our leading paint technology



Colour reference (refer to DETAIL A)			
No.	Name	Customisable	Code
1	Customisation Panels	Yes	RAL
2	Hydraulic Door	Yes	RAL
3	Side Panel	Yes	RAL
4	Column	Yes	RAL
5	Valance	Yes	RAL
6	Base Frame / Drip Tray	2 OPTIONS	RAL 7021/SHELL GREY

Wayne Helix 5000-II

- True Wayne innovation with advanced IoT technology connecting the dispenser to the cloud and our powerful DX platform for remote monitoring and advanced management capabilities for low TCO
- Improved hydraulic system based on field-proven gear pump technology in new stack arrangement for reduced noise & vibration
- Stage II vapour recovery in stack arrangement for better service access. New field-proven vapour flow meter and same field-proven direct drive VR pump eliminating belt wear & tear.
- New field-proven high-capacity pumping unit for very high-speed flowrates. Same stack size as the retail capacity pumping unit to offer full flexibility. Allows for fewer pumping units in some very high-speed model configurations.
- Minor changes to footprint. New standard position of inlets. Improved height underneath stack for connections to riser pipework for minimal cost of change.
- Improved FHR full hose retraction with magnetic breakaway
- Greater flexibility for customer branding and strong corrosion protection from our leading paint technology



