



# Dispenser Technology – Wayne Helix 4000-II

Model Overview

Apr-2022

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**







# Wayne Dispenser Technology

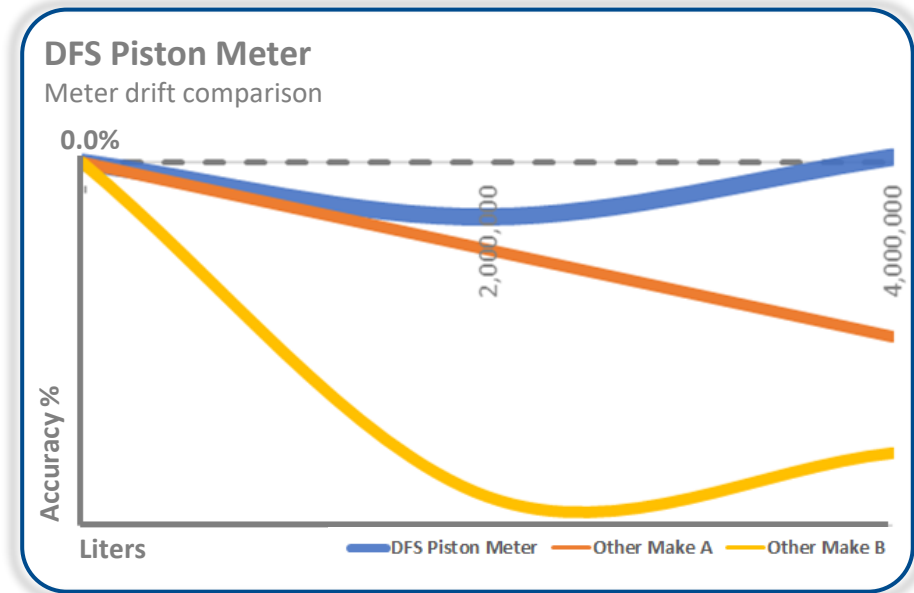


**Designed with field-proven global components and corrosion resistant materials, Wayne fuel dispensers offer exceptional reliability**

- Strong corrosion protection from high quality materials & design without welded corners
- Assembled to the highest standard with rigorous testing & quality control
- Designed with leading pumping technology using gear pump for reliable longevity
- Superior uptime in field, with reliable operation from long-lasting components
- Better total cost of ownership from less service required during lifetime

**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
- Certified accuracy with meter performance verified by independent test lab
- Electronic calibration and industry-best resolution of 400 pulses per liter for accuracy across all flow rates
- Better total cost of ownership from minimal drift, reliable performance and minimal recalibration requirement





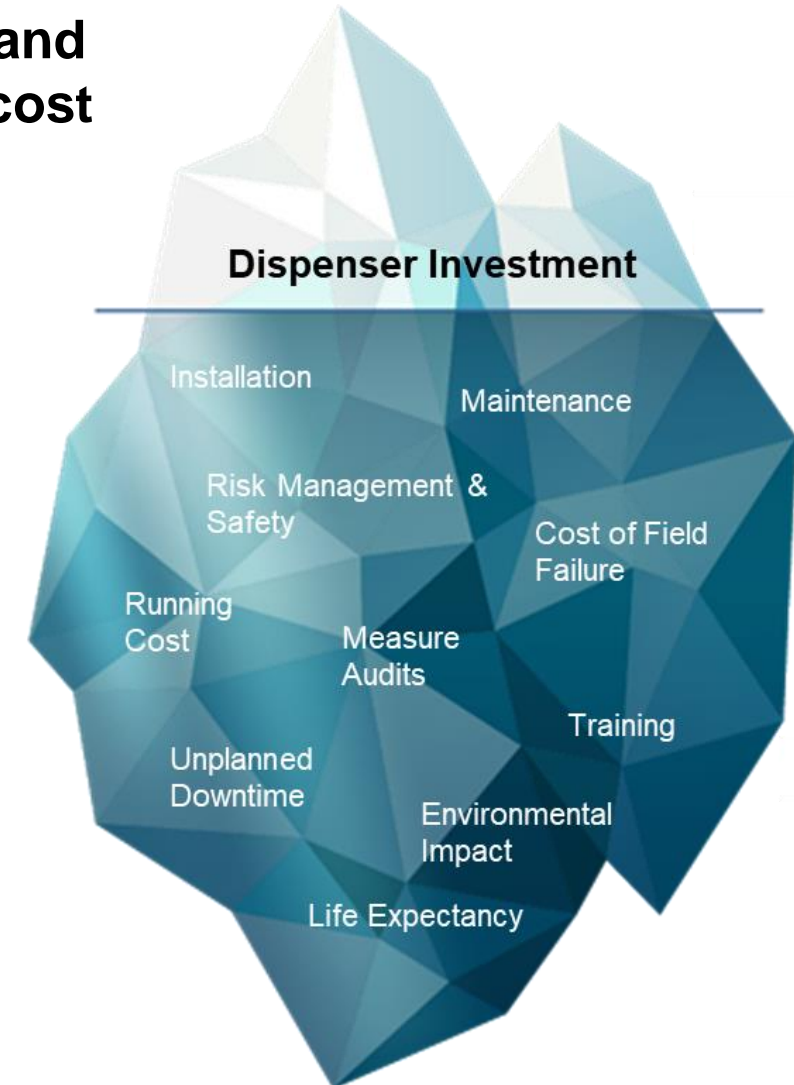
**Designed with safety in mind, from assembly to installation and daily operation, Wayne fuel dispensers come with intelligent safety features as standard**

- Safety-focused design that avoids working at height for expected service interventions like hose replacements due to natural wear
- Patented double-bump pipe couplings minimize faulty assembly for secured seal
- Ergonomically optimized positioning of nozzles to ensure DDA compliance
- Better total cost of ownership from less service with improved protection against leaks over lifetime



**Modern intelligent design that provides accurate metering and a long lifetime with less service interventions for low total cost of ownership. Technology leadership to the Core!**

- Built to last with durable design using field-proven components that require less service
- Strong corrosion protection to ensure a long lifetime
- Robust design with single bottom-frame & strong chassis for improved structural framework
- Reliable operation from accurate metering and stable field-proven electronics
- Better total cost of ownership from intelligent design with fewer parts wearing over lifetime



# Wayne Helix 4000-II

## Dispenser Technology



## Reliability through Technology Leadership

**Wayne fuel dispensers are known for its leading technology in all core components.**

### **Reliability**

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**

Our modern design offers superior reliability, accurate metering and a long lifetime with less service interventions for low total cost of ownership.

### **Technology leadership to the Core!**

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



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

Conventional Fuel



Century 3



H4000 II



H5000 II



H6000 II



H6000 II Additive

AdBlue



Century 3 AdB



H6000 II AdB



H6000 II B2B AdB

LPG



Century 3 LPG



H6000 II LPG



H6000 II B2B LPG

CNG



H6000 II CNG



H6000 II B2B CNG

# Wayne Helix 4000-II

## Nomenclature

**New Naming Convention**

Name	Model Nomenclature					
<b>H4000-II</b>	X	-	X	-	X	xyz
	Number of grades available		Total number of nozzles		Columns with an Active hose	Denomination of type (other than standard)

- High Speed (HS) 70 LPM is available as option (not special model config)
- High Speed 40-70 LPM switching is available as option (not special model config)



**Helix 4000-II 2-4-2**



# **Wayne Helix 4000-II**

## Conventional Fuels – Model Details

# Wayne Helix 4000-II

## Model Overview



**Wayne technology with true modularity for up to two grades with choice of hose retraction and nozzles positioned on either side of the dispenser head**

### Helix 4000-II

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

Hydraulic System: Suction or Remote Pressure

Grades available: 1 to 2 (3 with blending)

Nozzles available: 1 to 4

Flow Rates<sup>a</sup> available: 40, 40-70, 70, or 120 LPM

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

Electronics: iGEM pump computer

Metering: P-Meter (Piston) 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

*a) Flow rates are indicative as actual flow rates depends on the underground fuel installation. Actual flow rates can vary +/- 10% from nominal flow rates.*

	Length	Width	Height
H4000-II 1-X-1	1026 <sup>b</sup>	669	2268 <sup>c</sup>
H4000-II 2-X-2	1026 <sup>b</sup>	669	2268 <sup>c</sup>

*b) Length 1056 with valence*

*c) Height 2368 with valence*

### Model Configurations (Standard Flow)

Helix 4000-II	Nomenclature	Model Characteristics	H4000
<b>1-1-1</b>	1 Grade Out, 1 Nozzle, 1 Hose column	Lane orientation, single-sided. Single delivery 40. 1 SAT A/B (70LPM). 1 Inlet, 1 Hydraulic position	<b>11-11 (SS)</b>
<b>1-2-1</b>	1 Grade Out, 2 Nozzle, 1 Hose column	Lane orientation, single-sided. Dual delivery 40/40. 2 SAT A+B (70LPM). 1 Inlet, 1 Hydraulic position	<b>11-11 (DS)</b>
<b>2-2-2</b>	2 Grades Out, 2 Nozzles, 2 Hose columns	Lane orientation, single-sided. Single delivery 40/40. 2 Inlets, 2 Hydraulic positions	<b>22-22 (SS)</b>
<b>2-4-2<sup>a</sup></b>	2 Grades Out, 4 Nozzles, 2 Hose columns	Lane orientation, dual-sided. Dual delivery 40/40+40/40. 2 Inlets, 2 Hydraulic positions	<b>22-22 (DS)</b>

#### Retail Speed suction use retail capacity (RC) pumping unit

- High Speed (HS) 70 LPM is available as option
  - High Speed 40-70 LPM switching is available as option
- a) Available with 4-active hose capability as option

### Model Configurations (Very High Speed Flow)

Helix 4000-II	Nomenclature	Model Characteristics	H4000
<b>1-1-1 1VHS-S</b>	1 Grade Out, 1 Nozzle, 1 Hose column	Lane orientation, single-sided. Single delivery 120. 1 SAT A. 2 Inlets, 2 Hydraulic positions	11-21 (SS)
<b>1-2-1 1VHS-nS</b>	1 Grade Out, 2 Nozzles, 1 Hose column	Lane orientation, dual-sided. Dual delivery 120*+120*. 2 SAT A+B. 2 Inlets, 2 Hydraulic positions	11-21 (DS)
<b>1-2-1 1VHS-S</b>	1 Grade Out, 2 Nozzles, 1 Hose column	Lane orientation, dual-sided. Dual delivery 120+120. 2 SAT A+B. 2 Inlets, 2 Hydraulic positions	11-31 (DS)
<b>1-2-2 1VHS-S</b>	1 Grade Out (1 shared), 2 Nozzles, 2 Hose columns	Lane orientation, single-sided. Single delivery 120/40. 2 Inlets, 2 Hydraulic positions	11-22 (SS)
<b>1-4-2 1VHS-nS</b>	1 Grade Out (1 shared), 4 Nozzles, 2 Hose columns	Lane orientation, dual-sided. Dual delivery 120*/40+120*/40. 2 Inlets, 2 Hydraulic positions	11-22 (DS)
<b>1-4-2 1VHS-S</b>	1 Grade Out (1 shared), 4 Nozzles, 2 Hose columns	Lane orientation, dual-sided. Dual delivery 120/40+120/40.. 2 Inlets, 2 Hydraulic positions	11-31 (DS)

#### Very High Speed applications will use combination of RC & HC pumping units

- 1VHS-S will deliver 120 LPM also when both sides are in use simultaneously
- 1VHS-nS will deliver 90 LPM when both sides are in use simultaneously, but 120 LPM when used singularly. 120\* = non-simultaneously



## Model Configurations (Blend)

Helix 4000-II	Nomenclature	Model Characteristics	H4000
<b>3-2-1 BLD</b>	3 Grades Out, 2 Nozzles, 1 Hose column	Lane orientation, dual-sided. Dual delivery 40+40. 2 Hydraulic positions	<b>23-21(DS)</b>

### Retail Speed suction use retail capacity (RC) pumping unit

- High Speed (HS) 70 LPM is available as option
- High Speed 40-70 LPM switching is available as option

