

# BlueMaster®

## AdBlue® ENERGY STORAGE SOLUTIONS

BUNDED STORAGE AND DISPENSING SOLUTIONS FOR AdBlue®  
FROM 2500 - 9000 LITRES



LEADING  
CHANGE





# BUILT ON LEADERSHIP



**WORLD LEADER**  
in quality AdBlue  
Energy Storage Solutions

## Energy Storage Solutions

Kingspan Titan is an Energy Storage Solutions provider whose mission is to preserve and protect the environment by providing safe and absolute containment of expensive and harmful liquids.

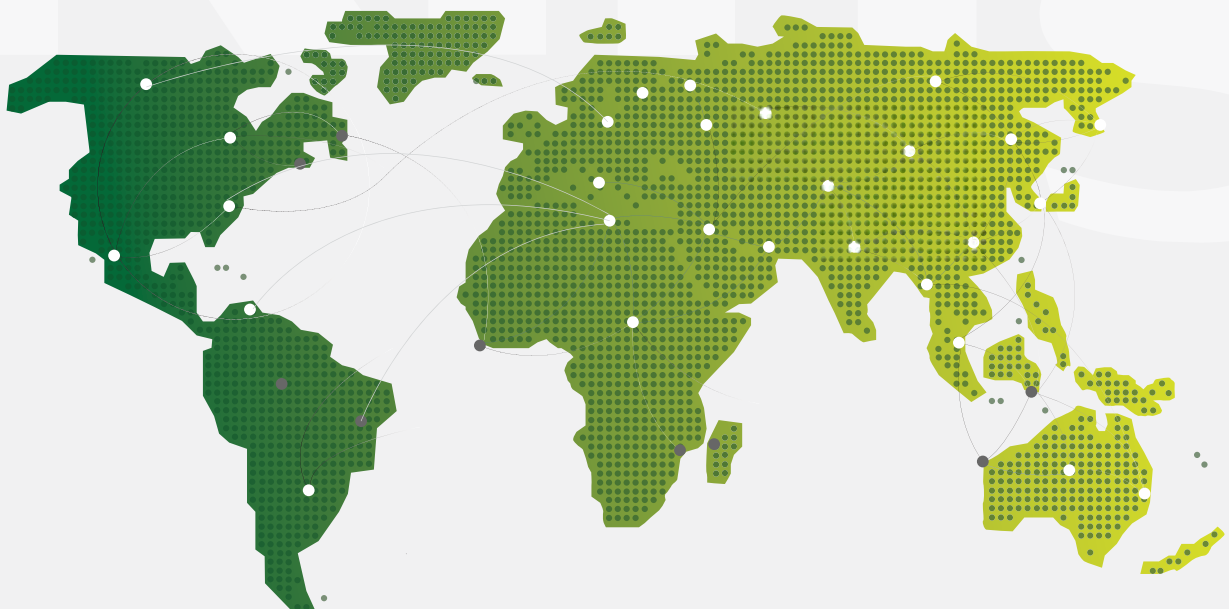
Operating in over 85 countries, we offer a global distribution network of experienced sales and technical teams who provide a full range of focused customer service including delivery scheduling, consultancy and installation guidance. Kingspan Titan also gives you the confidence of support over the lifetime of your product and beyond.

More than that, we power businesses and lives through total peace of mind.

## Kingspan Titan

For over 40 years, Kingspan Titan has designed and manufactured innovative ways to store, dispense and protect AdBlue, diesel and oil. We pioneered the world's first environmentally responsible bunded tank - leading change in our sector and setting industry standards around the world.

As established global market leaders, our diverse range of innovative and environmentally responsible steel and plastic storage solutions offer dispensing and management systems in capacities ranging from 200 to 100,000 litres - ideal for a wide variety of industrial, agricultural, road haulage, mining, manufacturing, and construction applications.





# BlueMaster®

## Kingspan Titan BlueMaster®

The design of our Kingspan Titan BlueMaster range is based on our wealth of industry experience and knowledge, enabling us to bring to market one of the most reliable and robust AdBlue Storage systems available.

For over 10 years, we have designed and manufactured innovative ways to responsibly store, dispense and manage AdBlue. Our bulk storage solutions and multiple management options offer a strong return on investment and provide the necessary level of control needed for all businesses. Every Titan BlueMaster product ensures AdBlue purity is maintained at all times and is designed to comply with national and international regulations as well as all industry standards.

## What is AdBlue®?

AdBlue is the trade name for an aqueous solution of urea. This reducing agent converts harmful nitrogen oxide into innocuous nitrogen and water. AdBlue is commonly used in diesel engines with SCR (Selective Catalytic Reduction) technology to meet stricter emission standards for diesel powered engines. AdBlue is known by several names depending on the country: in the US, DEF (Diesel Exhaust Fluid), in Brazil, ARLA32. Its technical name is AUS32.

## QUALITY

- › Quality product and quality service ensure absolute peace of mind. With Kingspan your AdBlue purity, and your vehicles, are protected.

## RETURN ON INVESTMENT

- › Onsite bulk storage means you, as an AdBlue distributor, benefit from better logistical planning and fleet owners can purchase larger volumes - saving everyone time and money

## SERVICE

- › Exceptional customer service is our top priority which is why we offer full technical and after-sales support, a trustworthy guarantee and fast delivery times.

DESPATCHED  
WITHIN  
**3 DAYS\***

\* selected models only



BlueMaster®

# PROTECTING YOUR BUSINESS AND THE ENVIRONMENT

## ULTIMATE PROTECTION

GUARANTEEING  
LONG TERM QUALITY  
STORED ADBLUE

CLOSED FLUID PATH

PROTECTING  
CAR FLEET



PROTECTING  
HAULAGE FLEET



PROTECTING  
FARMING VEHICLES



## ENVIRONMENTALLY RESPONSIBLE

Double skinned construction, Leak Detection\* and an Overfill Alarm\* keeps users informed of leaks and overfills, protecting the environment and your AdBlue.

\*Selected models



# BlueMaster<sup>®</sup> - PROTECTING YOUR BUSINESS

Kingspan Titan BlueMaster tanks ensure your AdBlue remains pure for the lifetime in the tank protecting your assets and the environment. This is accomplished in three ways:

## CLOSED FLUID PATH

Manufacturers of AdBlue agree that the closed controlled systems, like those found in Kingspan Titan BlueMaster tanks, rigorously maintain AdBlue purity.



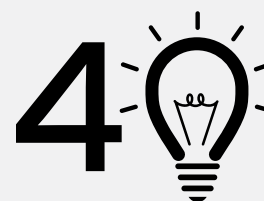
## MANUFACTURING AND MATERIAL COMPLIANCE

All BlueMaster tanks conform to the highest manufacturing and material compliance standards (ISO 22241, DIBT, BS EN ISO 9001:2008) to deal with the chemical characteristics of AdBlue.



## EXPERTISE AND KNOWLEDGE

Kingspan Titan are experts who have engineered and manufactured liquid storage solutions for over 40 years. During the past 10 years we have worked with AdBlue producers to create one of the safest and most environmentally responsible storage solutions available.



In our increasingly regulated world with stringent emission standards, SCR technology, and the need for AdBlue in cars, trains, buses, freight, tractors and ships, is becoming more common.

AdBlue is highly susceptible to contamination, which can be costly both financially and in terms of lost productivity. Kingspan Titan BlueMaster tanks not only guarantee AdBlue purity, but also protect your AdBlue against external factors such as temperature, UV light and moisture.



**10 YEAR  
GUARANTEE\***  
FOR TOTAL  
PEACE OF MIND

# AdBlue® STORAGE & DISPENSING



The **BlueMaster** and **BlueMaster PRO** bundled Storage Systems offer the Ultimate AdBlue Storage Solutions. Our tanks offer many features and come with ten equipment specifications detailed on page 10.

All AdBlue tanks come doubled skinned for environmental protection and to safeguard against contamination.

Available from 2500 to 9000 litres, and offering a broad range of management and monitoring solutions, BlueMaster gives our customers a quality cost-saving and compliant AdBlue storage solution. Each is backed by excellent technical and customer service support and a 10-year tank guarantee\*.

\*(10 year tank and 2 year parts guarantee)





## BlueMaster<sup>PRO</sup>

The BlueMaster PRO is available in four specification types and offers two levels of system management for advanced users requiring regulated and managed solutions.

# BlueMaster PRO with TITAN Access Mgt. System

## THE MANAGEMENT OF STORED AND DISPENSED ADBLUE FOR UP TO 20,000 USERS



The Access Management System supports comprehensive AdBlue management activities by metering intra-company AdBlue station's tank levels and volumes dispensed. The system provides complete control over distributed and stored AdBlue from the moment of delivery to the time of use.

The Access Management System comes as standard with the Access Tank Monitoring System (ATMS) and provides essential information such as leak detection, heating and cooling management and if required the extreme climate pack control.

\* Available in equipment specification 1 and 3.  
See page 10 for more information.

### Key Features

- Measures the temperature of the liquid in the tank.
- Built in alerts
- Monitors database of 20,000 users
- Authorisation via RFID Cards
- Live streaming of data with online access and control 24/7
- Visibility and management of tank and driver access, GSM or WIFI access
- Large range reports and management information automatically exported to MS office programmes
- Options available to meet specific market approvals i.e DiBt
- Access Tank Monitoring System (ATMS)

# BlueMaster PRO with Commercial Mgt. System

## COMPLIANT WITH MEASUREMENT INSTRUMENTS DIRECTIVE (MID)



Permitted for point of sale use, the commercial management system is compliant with the Measurement Instruments Directive (MID) 80/181/EEC for commercial businesses who need a weights and measures approved dispensing solution.

The Commercial Management System comes as standard with the Commercial Tank Monitoring System (CTMS) and provides additional important information including tank levels display, overfill and leak detection, heating and cooling management and if required the extreme climate pack control.

\* Available in equipment specification 2 and 4.  
See page 10 for more information.

### Key features

- The Panel is made from Stainless steel, ensures no contamination of AdBlue
- Lockable panel for security
- Separate access for dispensing and access to closed fill point
- Easy to use with large information display
- Validated with industry standard communication protocols for point of sale applications
- Service queries responded to within 12 hours, service engineer onsite within 48 hours
- Fully equipped with delivery hose and reel
- Options available to meet specific market approvals ie DiBt
- Commercial Tank Monitoring System (CTMS)



## BlueMaster®

The Standard BlueMaster offering comes in six specification types, three of which include Tank Monitoring from our Kingspan Sensor range.

### BlueMaster®

## STANDARD

Not all users and markets require a fully integrated tank monitoring system. Our essential equipment offering varies depending on market requirements but typically offers:

- Digital Flowmeter
- Submersible Pump
- Automatic Nozzle
- Leak Detection Alarm
- Clock level indicator
- Overfill Alarm

\* Available in equipment specification 7, 8 & 10.  
See page 10 for more information.



### BlueMaster®

## STANDARD

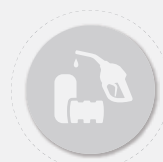
### With Tank Monitoring System

#### KINGSPAN SENSOR TANK MONITORING SYSTEM (TMS)

The Tank Monitoring System when fitted to the BlueMaster Standard tank offers the following key features:

- Power supply for system devices
- LCD display
- Pump on/off control via nozzle holder switch
- Control of heating and ventilation
- Leak detection alarm
- Overfill alarm
- Flow measurement - via external flowmeter
- Contents measurement - via pressure sensor
- Nozzle position indication
- Housing light control
- 4-20 mA output
- 100 impulse/litre output

\* Available in equipment specification 5, 6 & 9. See page 10 for more information.







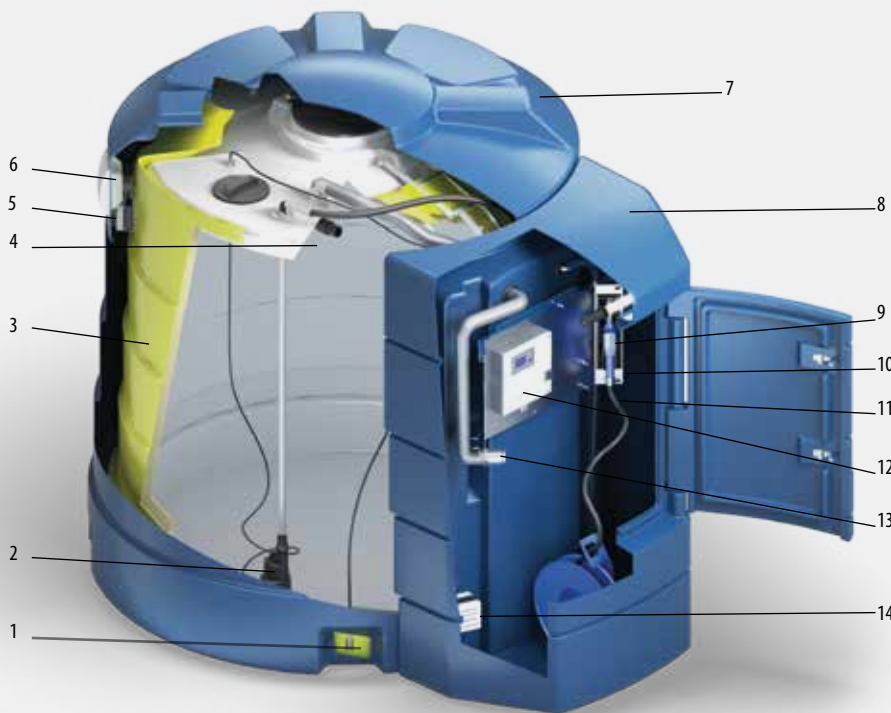
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# TYPICAL EQUIPMENT SPECIFICATION

## Equipment Specification 5\*





- 1 TMS Leak Detection Alarm
- 2 Submersible Pump
- 3 Insulation around inner tank
- 4 TMS Overfill Alarm (Probe Not Shown)
- 5 Heating in bund
- 6 Ventilation in Bund
- 7 Double Skin Tank
- 8 Housing
- 9 Piusi Automatic Nozzle
- 10 Nozzle Holder with Automatic Pump On/Off Switch
- 11 6M EPDM Hose
- 12 TMS Standard
- 13 2" Dry Coupling Filling Connection
- 14 Heating in Housing

\*see page 10



(Hose Reel not available in Equipment Specification 5)

## TANK DIMENSIONS

	MODEL	CAPACITY	LENGTH	WIDTH	HEIGHT
	2500 ltrs	2500 ltrs (550 Gals)	2460mm	1460mm	1860mm
	4000 ltrs	4000 ltrs (880 Gals)	3900mm	1150mm	2340mm
	5000 ltrs	5000 ltrs (1100 Gals)	2850mm	2250mm	2350mm
	9000 ltrs	9000 ltrs (1980 Gals)	3280mm	2450mm	2950mm

\*All table dimensions are approximate.

# SPECIFICATION SELECTOR

## BlueMaster<sup>PRO</sup>

SPECIFICATION TYPE	EQUIPMENT SPECIFICATION 1	EQUIPMENT SPECIFICATION 2	EQUIPMENT SPECIFICATION 3	EQUIPMENT SPECIFICATION 4
MONITORING AND MANAGEMENT OPTIONS	TITAN ACCESS MGT SYSTEM	COMMERCIAL MGT SYSTEM	TITAN ACCESS MGT SYSTEM	COMMERCIAL MGT SYSTEM
<b>EQUIPMENT</b>				
Double Skinned Tank	•	•	•	•
Housing (large on 5000L)	•	•	•	•
Commercial TMS		•		•
Access TMS	•		•	
Heating in Housing and / or Bund	•	•	•	•
Ventilation in Bund	•	•	•	•
*Extreme Climate Pack (heating tape & insulation)	•	•	•	•
2" Dry Coupling Filling Connection	•	•	•	•
Submersible Pump	•	•	•	•
6m EPDM Hose (4m EPDM Hose on 2500 L tank)	•	•	•	•
PIUSI Automatic Nozzle	•		•	
Elaflex Automatic Nozzle		•		•
Nozzle Holder with Automatic Pump On/Off Switch	•	•	•	•
Light in Housing	•	•	•	•
Hose Reel		•	•	•
Commercial Management System		•		•
Titan Access Management System	•		•	
TMS Overfill Alarm	•	•		
TMS Leak Detection Alarm	•	•		
Overfill Alarm			•	•
Leak Detection Alarm			•	•
Tank Capacities	2500, 4000, 5000, 9000	4000, 5000, 9000	4000, 5000, 9000	4000, 5000, 9000

\*Also available without Extreme Climate Pack

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SPECIFICATION TYPE	EQUIPMENT SPECIFICATION 1	EQUIPMENT SPECIFICATION 2	EQUIPMENT SPECIFICATION 3	EQUIPMENT SPECIFICATION 4	EQUIPMENT SPECIFICATION 5	EQUIPMENT SPECIFICATION 6
MONITORING AND MANAGEMENT OPTIONS	TMS DISPENSING	TMS DISPENSING	DISPENSING SYSTEM	DISPENSING SYSTEM	TMS DISPENSING	DISPENSING SYSTEM
<b>EQUIPMENT</b>						
Double Skinned Tank	•	•	•	•	•	•
Housing (large on 5000L)	•	•		•	•	
Housing (small on 5000L)			•			•
Standard TMS	•	•			•	
Heating in Housing and /or Bund	•	•	•	•		•
Ventilation in Bund	•	•	•	•		•
Insulation around Inner Tank	•					•
2" Dry Coupling Filling Connection	•	•	•	•	•	•
Submersible Pump	•	•	•	•	•	•
6m EPDM Hose (4m EPDM Hose on 2500 L tank)	•	•	•	•	•	•
PIUSI Automatic Nozzle	•	•	•	•	•	•
Nozzle Holder with automatic Pump on/off Switch	•	•			•	
Nozzle Holder			•	•		•
Light in Housing	•	•	•	•	•	•
Clock type Level Indicator			•	•		•
PIUSI K24 Digital Flowmeter			•	•		•
Hose Reel		•		•		
TMS Overfill Alarm	•				•	
TMS Leak Detection Alarm	•				•	
Overfill Alarm		•	•	•		•
Leak Detection Alarm		•	•	•		•
Tank Capacities	2500, 4000, 5000, 9000	2500, 4000, 5000, 9000	2500, 4000, 5000, 9000	2500, 4000, 5000, 9000	2500, 4000, 5000, 9000	2500, 4000, 5000, 9000

A background image showing a hand holding a large, green leaf, symbolizing nature and sustainability. The image is in a light green tone, matching the overall color scheme.

# BlueMaster®

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## Quality, compliant & protective Energy Storage Solutions

Kingspan are global market leaders in the design and manufacture of trusted, quality and environmentally responsible Energy Storage Solutions. We power businesses and lives through total peace of mind.