

BookStock



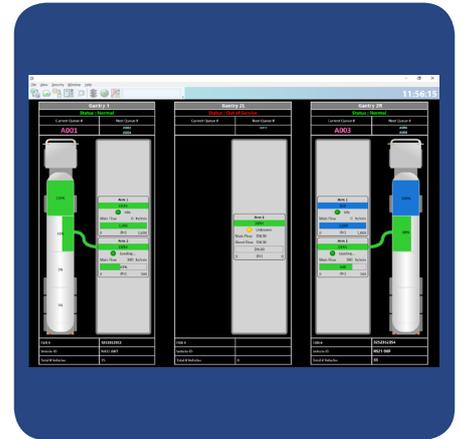
BookStock is a bulk liquid stock accounting application suitable for sites handling petroleum products and other bulk liquids



BookStock Report



VTW



SmartTAS

Overview

The BookStock application is a scalable system suitable for single or multi-user environments. It features built-in multi-site capability, allowing the management of many sites by one central stock accounting team.

It can operate in a purely manual setting, where all data is entered manually, or it can be connected to a range of automation systems for collecting data automatically.

For example, it can be interfaced to most modern tank gauging systems such as VTW for the collection of real-time physical stock data, or to a terminal automation system such as SmartTAS for the collection of receipt or loading information etc.

Calculations in BookStock are performed to API/ASTM standards to provide observed (measured), standard and mass figures based on the data available.

Stock reconciliation can then be performed for each set of figures.

BookStock provides two methods for correcting data entry errors. If the error is detected before the monthly accounts are posted, then the transaction itself can be altered and the figures recalculated from that point in time.

Should the error be detected after accounts have been published then BookStock provides a facility for entering adjustments to both tank and customer accounts.

The general movement entry screen provides a comprehensive interface for entering stock movement details, but there are some special cases that are handled separately:

- *Hydrant Movements* - movements where the tank opening and closing conditions can't be determined or are not available.
- *Tank to tank transfers* - movements where stock is moved from one storage vessel to another without affecting any customer's stock holding.
- *Customer transfers* - movements where there is no physical movement of stock, just the ownership of the stock is affected.
- *Product transfers* - movements where stock is transformed from one product grade into another.
- *Site-to-site transfers* - stock is moved from one BookStock site to another.

There is also a facility for copying the details of an existing movement to provide the starting point for the creating of a new one saving time when entering recurring movements.

Tank	Product	Out of Service	Level (mm)	Temp. (°C)	Density (kg/m³)	Water Level (mm)	G.O.V (m³)	G.S.V (m³)	Tonnage (kg)
CT1	JET A-1	<input type="checkbox"/>	8,029	7.70	792.10	0	8,370.922	8,428.681	6,676,358
CT2	JET A-1	<input type="checkbox"/>	0	0.00	0.00	0	0.000	0.000	0
CT3	JET A-1	<input type="checkbox"/>	5,205	7.50	791.90	0	5,443.254	5,481.901	4,341,118
PRT	JET A-1	<input checked="" type="checkbox"/>	0	15.00	800.00	0	0.075	0.075	60

Co-mingled storage

Where the products stored on site are owned by several companies, but there are no discrete storage facilities for each company's stock, a situation often referred to as 'co-mingled storage' occurs.

Loads and receipts are debited and credited to the customers' accounts, and later reconciled with the physical storage figures.

At the month end the losses and gains can be attributed automatically to the customers in proportion to their throughput.

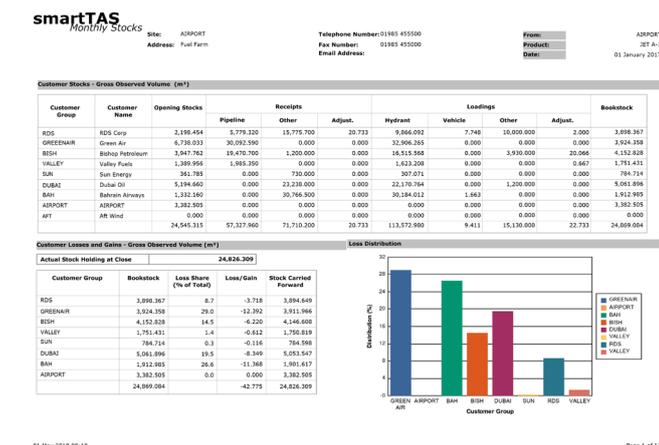
Aviation

BookStock has some specific applications that have been designed for aviation:

- Hydrant movements – tank movement figures inferred from customer movement and closing stock data.
- Average density and temperature figures used where no attributable data exists.
- Sarbanes-Oxley compliant reporting to customers.

Reports

BookStock comes with a comprehensive set of reports which can be customised to specific customer requirements.



01 May 2018 09:10

Page 1 of 13

All reports are designed with Crystal Reports although other reporting tools can be supported.

Security

A security system is in place which permits users to set up accounts for each user and to assign each user their own set of rights.

Tank farm operators can therefore be permitted only to enter closing stock figures, while oil accounts personnel can enter movements and transfers etc.

Remote access

Remote Access to the BookStock system can be provided via the internet.

This allows clients of the Oil Storage Operator to log in at any time to see their individual stock holding.

All remote access is carefully controlled though the integrated security system and each user can be granted or denied access to different features of the system.

Interfacing

BookStock's open database architecture and use of modern communication technologies enables data to be transferred to other systems very easily.

A range of technologies are utilised e.g. ASCII, OPC, XML, ODBC etc.

Along with MHT's full suite of software products including VTW, SmartTAS, and LMS, BookStock is fully compatible with Windows 10 and Windows Server 2016.

Architecture

BookStock supports a range of different architectures from simple standalone workstations to large client server and distributed systems.

- BookStock can be installed on the same machine as the tank gauging system, or on a separate system.
- Standard SQL Server back-end database.
- Microsoft.NET client software installed on each station.
- System is compatible with Windows Terminal Server for a centralised deployment.

Hazardous waste

BookStock has some specific applications that have been designed for sites handling hazardous waste such as:

- Electronic delivery of regulatory data.
- Compliant with UK Environment Agency guidelines.
- Waste producer list and waste catalogue synchronised with accounts package.