

Data-driven software enabling real-time analysis, optimisation & forecasting

The Customer

Situated in South Australia's acclaimed Barossa Valley wine region, Treasury Wine Estates' (TWE) Bilyara Packaging Centre is one of the largest and most advanced facilities of its type in the industry. It handles millions of cases per year of premium wine for local and international distribution.

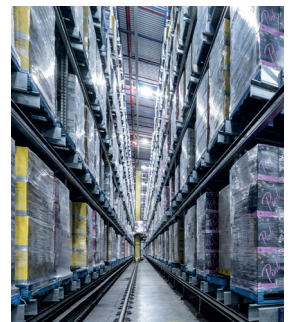
In 2005, TWE directly linked production to their high-bay facility, featuring 22,000 double-deep pallet locations, serviced by nine Vectura ASRS cranes, capable of a throughput of more than 500 pallets every hour. Additionally, the solution included a pallet conveyor system with automatic despatch staging lanes.

"The automation in place created significant cost savings as we were able to consolidate storage facilities whilst increasing density. The fully integrated system has improved safety, reduced overall operational costs, and eliminated the need for forklifts. The onsite team maintains a smooth and consistent operation whilst enabling instant response times," said Mark Baldock, Warehouse Manager at TWE.



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Mark Baldock
Warehouse Manager,
Treasury Wine Estate





The Challenge

Since 2005, a Swisslog automated storage and retrieval system (ASRS) has enabled a wide variety of bottle, label, and carton variation to be handled at high speeds with accurate delivery fulfillment.

To ensure optimal support, TWE chose to migrate their software with the assistance of Swisslog. Both the local and global Swisslog community worked collaboratively with TWE to take the necessary steps to further enhance its industry leadership, by adding Swisslog's advanced SynQ software to upgrade cybersecurity, equipment availability, and big data interrogation.

"Swisslog recommended that we implement its SynQ software, and then specifically identified certain software add-ons that were tailored to the goals of our business," said Mr Baldock.

"The result is a warehouse with enhanced safety, improved customer service, and reduced overall cost of operations, compared with our previous manual warehouse," he said.

Swisslog Australia Managing Director, Dan Ulmamei, says TWE has been leading its industry for decades through intelligent, customer-oriented approaches to warehousing and distribution.

"TWE identified the link between automation delivering more pallets with greater accuracy, and customer service, and they've utilised it effectively for more than 15 years now. We are delighted that they have now added intelligent software to futureproof their operations and further optimise performance," he said.

»Since the upgrade, we have seen many benefits, including a uniform and easy to operate interface with integrated plant visualisation for better error handling and inventory control.«

Mark Baldock
Warehouse Manager,
Treasury Wine Estates





The Result

TWE Warehouse Manager, Mark Baldock, says investing early in automation has been a key driver of business success, and he's impressed with the advanced new features.

"The smooth migration change was handled professionally by the Swisslog team. The software enables real-time analysis, improves our optimisation and forecasting and allows us to quickly identify and eliminate bottlenecks. The 3D visualiser tool creates a three-dimensional overview of all areas of the automation solution, enabling us to make proactive and informed decisions," he said.

"We worked closely with Swisslog's software engineering team to leverage existing software features, and since the upgrade, we have seen many benefits, including a uniform and easy to operate interface with integrated plant visualisation for better error handling and greater inventory control," he added.

SynQ – Swisslog's modular Warehouse Management System (WMS) – is a service-oriented software platform that provides precise functionality to optimise warehouse operations.

SynQ offers intelligence in operations and synchronises the performance of automated warehouse equipment with an array of business intelligence tools to boost warehouse performance.

Swisslog ANZ Head of Customer Service, Franz Wiebe, says Swisslog's SynQ Independent Business Intelligence tools suite adds value by enabling warehouse operations to work smarter, not harder.

"Swisslog's SynQ roadmap enabled TWE to make an informed and strategic decision to stay ahead. This is especially prevalent in legacy systems that become increasingly difficult to support, as third party companies upgrade their platform, database, architecture, and user interfaces," he said.

With more than 2,500 employees in 70 countries, TWE's new SynQ software upgrades will help grow its portfolio, which already includes more than 11,300 planted hectares of vineyards in some of the world's most sought-after winemaking regions, including the Barossa Valley in Australia, the Napa Valley in the United States, Marlborough in New Zealand, Bordeaux in France, and Tuscany in Italy.

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System Overview

Automated Solution (Since 2005)

- 9 ASRS Vectura pallet cranes
- 22,000 double-deep pallet locations
- Automatic staging lanes
- Fully integrated with Treasury Wine Estates' WMS

SynQ Software Upgrade

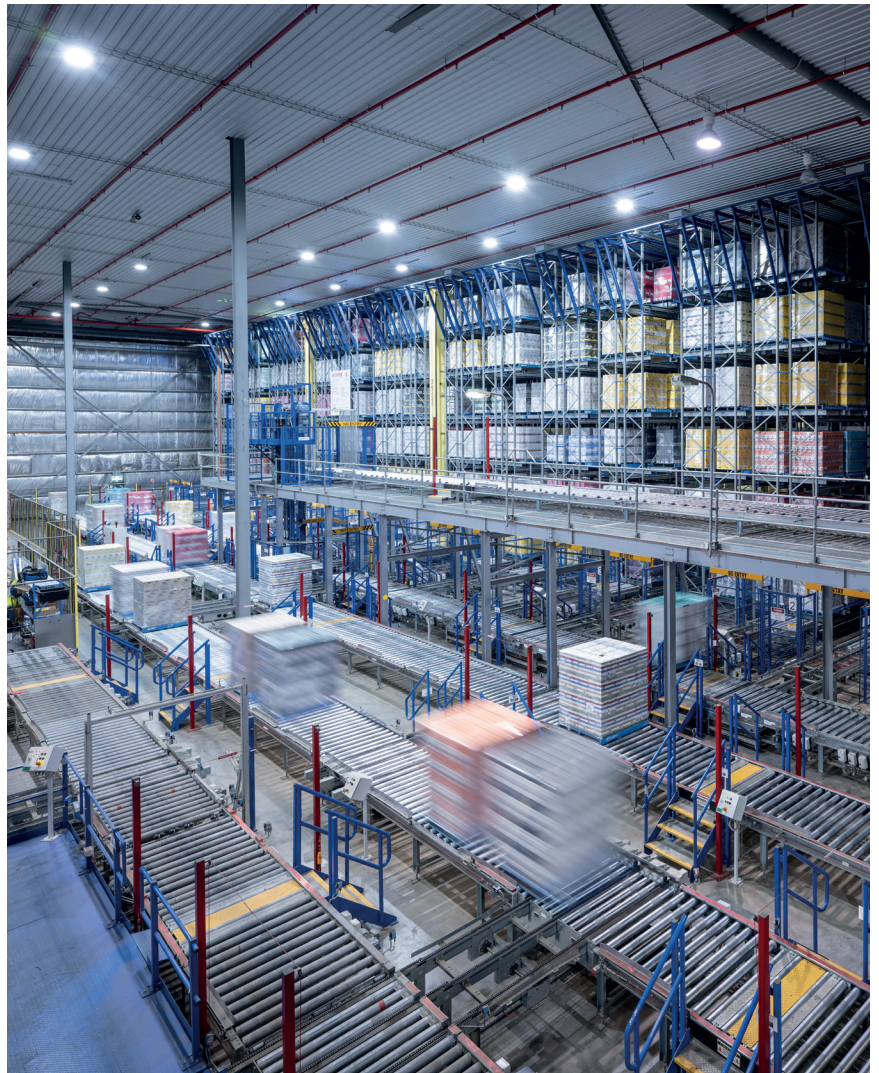
- Migration of WES from previous generation to latest SynQ software to upgrade cybersecurity, equipment availability, and big data interrogation

Software benefits

- Continued support with the latest platform architecture and user interface
- Real-time analysis through 3D visualisation
- System optimisation and accurate forecasting
- Elimination of bottlenecks
- Uniform and easy to use interface
- Improved error handling
- Increased pick efficiencies

SWISSLOG services

- Supported by an onsite team to maintain smooth running of a complex warehouse
- Backed by a global community with over 600 software experts



TREASURY WINE ESTATES

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