CASE STUDY

THINVENTORY

INTRODUCTION

Thinventory, previously known as ByBox provides inventory management solutions for field service companies, producing inventory lockers that offer end-to-end visibility and control of inventory in real time.

THE CHALLENGE

The client presented a significant design challenge due to the absence of engineering drawings for the lockers. This necessitated a reverse engineering process, which involved meticulously analysing existing locker sample to determine the dimensions, materials, and construction methods.

BACKGROUND STORY

The client faced challenges due to the high volume of lockers required and the complexity of the design engineering involved. The need for rapid turnaround times compounded these challenges. JC Metalworks was uniquely positioned to address these challenges due to its extensive capacity and capabilities in sheet metal fabrication. Our manufacturing facilities were equipped to handle large-scale production, ensuring timely delivery of the required lockers. Additionally, our experienced design engineering team demonstrated flexibility and adaptability, accommodating any additional design changes.

HOW JC METALWORKS RESPONDED

We reverse-engineered the customer sample lockers that were supplied to us. Our design engineers worked closely to understand what was required. We conducted a comprehensive analysis of the customer-provided locker samples. This process involved meticulous examination of the lockers' construction, including:

- **Material composition**
  Determining the specific types of steel used for the locker body, doors, and internal components. Lockers are constructed primarily using galvanised and Zintec materials.
- **Fabrication techniques**
  Analysing the welding methods, bending processes, and assembly techniques employed in the manufacturing of the lockers.

Security Features
All fixings used in Thinventory lockers are made of stainless steel or structural steel to reinforce their security. External rivets are sealed, while external screws are replaced with security screws to deter tampering.

Standardisation and Efficiency:
To optimise production efficiency and reduce lead times, JC Metalworks implemented a high degree of standardisation across all locker components. Minor adjustments were made to the design to ensure compatibility with manufacturing processes and maximise sheet material utilisation.

This standardisation process not only streamlined production but also laid a solid foundation for future locker designs, ensuring flexibility and adaptability to meet diverse needs.

Storage and Dispatch
To streamline inventory management and expedite delivery, JC Metalworks offers a storage facility to Thinventory. Our central location provides a significant advantage in minimising transit times and reducing handling.

THE RESULTS

JC Metalworks has to date successfully manufactured and delivered over 8,000 Thinventory lockers, meeting the client's sometimes aggressive timelines.

"JC Metalworks has been a fantastic partner. Their team is reliable, efficient, and always delivers great results. We highly recommend them for metalwork, especially if you need high-quality products on time and with no fuss. They are simply a dependable partner to work with."

ANDY CREES
Chief Operating Officer

"Here at Thinventory, we do work with a lot of suppliers, JC Metalworks are by far one of the best that we work with due to their flexibility and constant willingness to go above and beyond."

KEVIN BARRS
Service Product Manager

Thinventory