

High-Capacity Parcel Sortation System



Project Overview

CSL Automation delivered a high-capacity parcel handling and sortation solution designed to support a demanding, fast-paced third party logistics operation.

A Major Operational Hub

Located in the **North West of England**, this impressive **350,000+ sq. ft. facility** serves as the main operational headquarters for the customer. As a key hub within their wider network, the site plays a central role in supporting high-volume parcel processing and distribution, requiring a robust and reliable automation solution capable of meeting the demands of a fast-paced, continuously operating environment.

Built to operate across **three shifts, 24 hours a day, seven days a week**, the system provides the throughput, capacity and reliability required to keep parcels moving efficiently throughout the operation.

With the capability to process up to **15,000+ parcels per hour** and sort parcels across **88 destinations**, the solution supports a high-volume operation while providing the flexibility needed to manage multiple carriers, destinations and daily vehicle movements.





The Challenge

As parcel volumes and operational demands continue to increase, the customer required an automation solution capable of supporting a high-throughput, around-the-clock operation from the 13 packing lanes right through to the carrier sortation system prior to dispatch.

The system needed to:

- ▶ Move parcels between the 13 packing lanes with 195 pack stations
- ▶ Process high volumes of items including jiffy bags, envelopes and parcels quickly and efficiently
- ▶ Deliver rapid throughput and faster parcel processing
- ▶ Support a large number of sort destinations
- ▶ Operate reliably in a demanding, around-the-clock environment
- ▶ Handle parcels for multiple carriers
- ▶ Support efficient vehicle loading and dispatch
- ▶ Deliver improved levels of sortation accuracy
- ▶ Provide the capacity required to meet current operational demands
- ▶ Offer the flexibility and scalability to support future growth
- ▶ Fully supported by 24/7 remote software support and SLA mechanical breakdown



The Solution

CSL Automation designed and delivered a bespoke parcel handling and sortation solution tailored to the operational requirements of the site and their clients.

The system was engineered to efficiently move, identify and sort high volumes of parcels to the correct destination, helping to streamline the journey from packing through to dispatch.

The automation system and with its double Vertical Interroll Crossbelt Sorters provide the capacity required to support continuous, high-volume processing. The system sorts parcels across **88 destinations**, enabling the operation to efficiently manage a wide range of outbound routes and carrier requirements.

The solution is designed to integrate seamlessly with the wider operation and provide the performance and reliability needed for a 24/7 logistics environment.



Delivering performance around the clock

Operating across three shifts and around the clock, the system plays a critical role in supporting the customer and their clients online operation.

Automation provides the capacity to process significant parcel volumes consistently while helping to reduce bottlenecks and improve the efficiency of the overall material flow.

By combining high-speed parcel handling with accurate sortation across 88 destinations, the system enables parcels to be processed and directed efficiently towards their onward journey.

The solution is designed to support up to **44 carriers** and facilitate the loading of **up to 200 vehicles every day**, helping the operation manage complex dispatch requirements while maintaining the throughput required to meet customer demand.



The Results

The completed automation solution provides the customer with a high-capacity parcel handling system designed to support a demanding and continuously operating logistics environment.

Key results include:

- ▶ Capacity to process over **15,000 parcels per hour (2 x Interroll Vertical crossbelt Sorters)**
- ▶ Efficient sortation across **88 destinations**
- ▶ Reliable support for a **24/7 operation**
- ▶ Capability to operate across **three shifts**
- ▶ Sortation accuracy of **99.9%**
- ▶ Daily processing capacity of **over 360,000 parcels per day**
- ▶ Improved operational efficiency and parcel flow
- ▶ Reduced reliance on manual handling
- ▶ Increased capacity to support current and future parcel volumes
- ▶ Enhanced visibility and control across the automation system using SCADA protocols

The impact this system has had on our operation has been significant. We are now able to process parcels faster and more efficiently, while maintaining the high levels of accuracy that are essential to our business and our clients.

The increased capacity has given us greater flexibility to manage growing volumes, diversify our solution offerings providing our customers with greater flexibility. It has also given us a strong platform to support the continued growth of our operation. CSL understood our requirements and delivered a solution that has made a real difference to the way we work.

Talk to CSL Automation

Looking to increase throughput, improve operational efficiency or create additional capacity within your parcel handling operation?

CSL Automation designs, delivers and supports bespoke automation solutions tailored to the specific requirements of each operation. From high-speed conveyor and sortation systems through to controls, software and ongoing lifecycle support, our team can help you create an automation solution built around your business.

Contact CSL Automation to discuss your next automation project.

Call us on: +44 (0)1283 55 22 55

or email: sales@cslautomation.co.uk



Use the QR code to
visit the Contact page
on our website
cslautomation.co.uk/contact



Conveyor Systems Limited
3 Highwall Business Park,
Tetron Way,
Swadlincote,
Derbyshire,
DE11 0AF



Certificate Number 22789
ISO 9001

