



▶ **Complete Automation Solutions**
Efficiency in motion





Conveyor & Automation Solutions

CSL Automation was formed in 1997 from an automation background and has since strived, through innovation and excellence, to become a leading systems integrator, delivering multi-million-pound projects.

We have vast experience in providing materials handling & automation solutions across warehouses, fulfilment centres and factory environments.

Our philosophy is to provide our clients with a complete turnkey service, allowing CSL to deliver the best solutions possible. CSL will provide the same service & approach to each project, regardless of scale or size.

Whether a conveyor system requires a simple PLC control function or a complete WMS / WCS integration package, the level of support and delivery remains the same.

This approach and our attitude towards customer service has enabled us to gain new and repeat business providing growth and sustainability.



0026



Visit our website



cslautomation.co.uk



eCommerce



Production



Warehouse

Our conveyor systems are used within many industry sectors including:

- ▶ Warehouse, Distribution, Logistics
- ▶ Ecommerce/Fulfilment
- ▶ Food and Drink
- ▶ Pharmaceutical
- ▶ Factory/Production Line
- ▶ Chilled/Cold Store Environments

In applications such as:

- ▶ Simple product transit
- ▶ Sortation - high and low speed
- ▶ Order Picking/Packing
- ▶ Lightweight products up to heavy
- ▶ Pallet transportation
- ▶ Assembly lines
- ▶ Interfloor conveying/elevating
- ▶ End of line packaging systems
- ▶ Non-contact conveying and accumulation
- ▶ Vehicle loading, unloading & cross dock

Full Automation System Design and Integration

At CSL, we specialise in designing, installing and maintaining complete conveyor and automation systems incorporating a range of different products and solutions.

From electrical wholesale to fashion retailers and online food delivery companies, we have completed projects which takes product from warehouse storage to pick, pack, labelling and shipping, as well as handling returns, all in the most efficient and cost-effective method possible.

Seamless interface to either "Out of the Box" or bespoke WMS systems, through our WCS solutions, enables a layer of intelligent automation to be deployed. Utilising such solutions as Pick to Light / Put to Light and barcode reading, laser or camera-based, to increase efficiency & operational accuracy.



View our products
on our website





Our Products

CSL Automation work with long-term partners, including world-leading brands in the field of conveyors and automation solutions, to provide the quality, reliability and durability required to ensure that your project is completed to the highest possible standard.

All of our products can be integrated and combined to build an effective conveyor and automation system, maximising efficiency and ROI.

Conveyor Systems

Our range of powered roller conveyors (24v and 400v) are available in various roller pitches and widths to suit the application and provide accumulation, transit, divert, merge, transfer and sortation functions.

Our system design can accommodate most products, from cartons and totes to polybags as well as card envelopes.

Standard speeds up to 60m/minute and beyond.



View our Conveyor Solutions
on our website





Tote & Carton Conveyors

Solutions for carton and tote handling can combine many conveyor technologies in one system, such as belt conveyors and 24v accumulation-powered roller conveyors, for loads up to 50kg.

Each project is unique, and the application design is developed around each specific requirement.

Pallet Conveyors

Our pallet conveyors are designed to handle standard Chep, Euro, and most other pallet types, supporting weights of up to 2 tonnes.

Options include powered roller and chain conveyors that are versatile enough for a wide range of pallet handling tasks. These systems can integrate accessories such as turntables, transfers, transfer cars, barcode scanners, wrappers/hooders, and labelling equipment.

Automating pallet movement in warehouses and factories offers numerous advantages and is a key step towards achieving a fully automated facility. CSL can develop and install systems capable of moving items ranging from a single empty pallet to loads weighing up to 2 tonnes.

Designed for both transit and accumulation, these solutions seamlessly support feeds to and from production or finishing areas, utilising either roller or chain-based technology.



Find out more about Pallet Conveyors on our website

Spiral Elevators

Whether your production facility or warehouse has special constraints or storage located across multiple floor levels, requiring products to be raised or lowered vertically, our range of spiral conveyors is the ideal solution. Proven technology, with more than 120 spirals installed, they are space efficient and a flexible and cost-effective solution.

- ▶ Standard slat widths 200mm-600mm
- ▶ Multi lanes available to provide larger operational widths
- ▶ Heights up to 20m/60ft and beyond
- ▶ Small footprint saving valuable space (starting from 1240mm²)
- ▶ Speeds up to 90m/minute
- ▶ Continual throughput
- ▶ Suitable for irregular items as well as cartons, boxes, totes, bags etc.
- ▶ Safe transit between multiple floors/ heights
- ▶ Up to 50kg per metre
- ▶ Fully reversible
- ▶ Stacked spiral solutions



Find out more about Spiral Elevators
on our website





Vertical Elevators

We offer a range of high-quality, standard and bespoke vertical elevators/lowerators designed to handle most uniformly shaped products across single and multi-floor levels.

A unique design range accommodates carton/tote handling through to pallet handling.

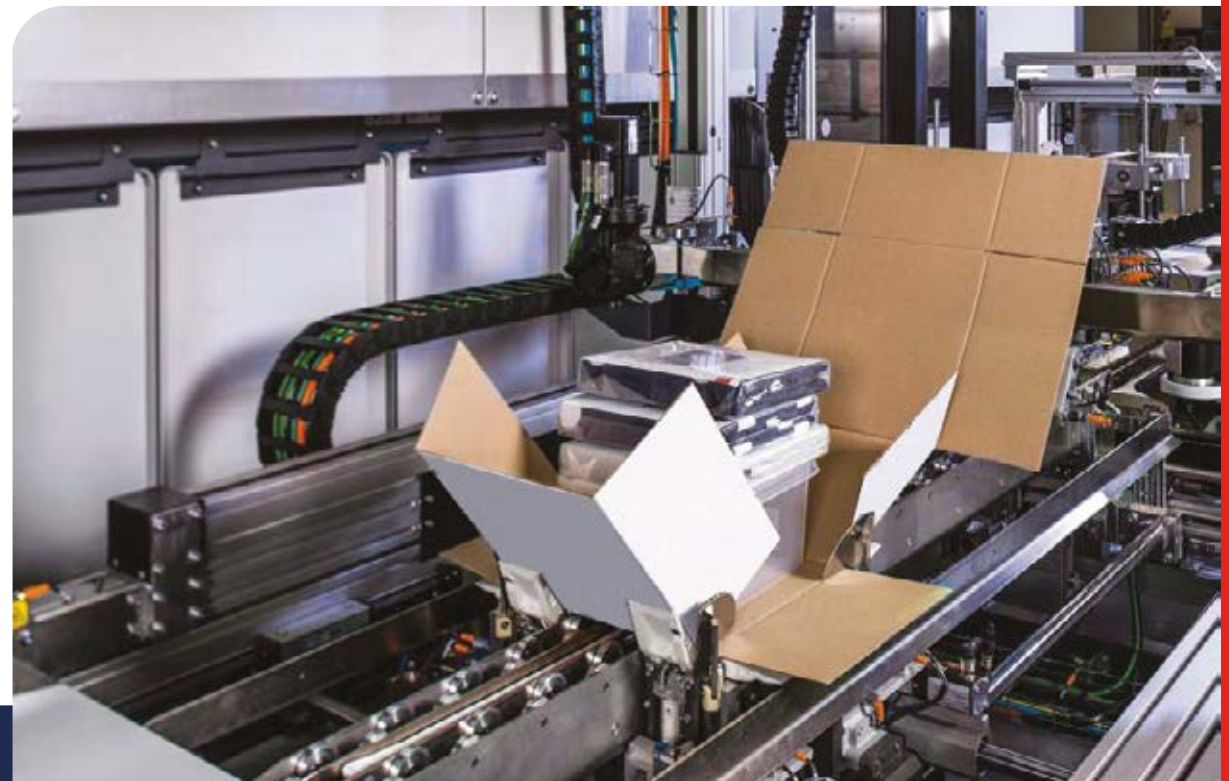
- ▶ Safe transit between multiple floors/heights
- ▶ Small footprint saving valuable space
- ▶ Up to 2,000 products per hour
- ▶ Suitable for boxes, crates, totes, sacks, pallets, etc
- ▶ Up to 25m high
- ▶ Max product weight 75kg (2ton Mk10)



Find out more about Vertical Elevators on our website

Automatic Packing, box reduction, scanning & labelling

Automatic packing machines can increase packaging process efficiencies by increasing throughput and reducing box volume by an average of 50% and cardboard waste by 30%. Meeting labour challenges head-on by replacing up to 30 manual packing stations. Our range includes fit-to-box and box-sizing technologies.



Find out more
on our website





Benefits

- ▶ Time-saving compared to manual packing/case erecting
- ▶ Reduction in volumetric shipping costs
- ▶ Cost savings as less material/void fill is being used
- ▶ Increases the packing throughput, especially in peak times
- ▶ Reductions in labour costs
- ▶ Consistency in packaging standards

Scanning and labelling packages and cartons is a vital part of automation. We can provide Print & Apply for carrier and LPN labels on multiple faces and multiple-side scanning solutions. Dimensioning / Weighing / Scanning (DWS) provides the last mile accuracy and essential data for carrier selection services.



Find out more
on our website

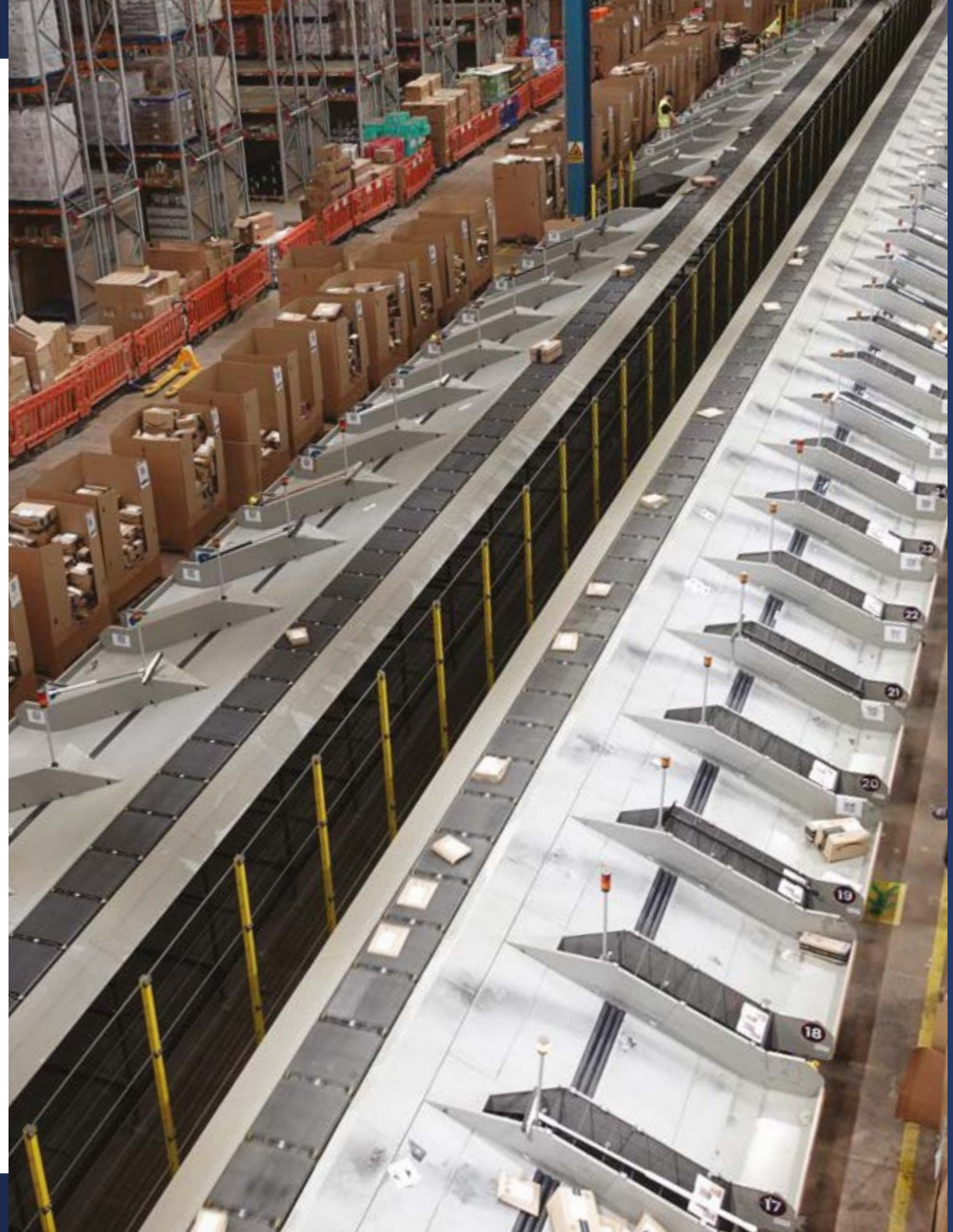
Sortation

Our sortation systems can handle products such as Jiffy bags, polybags, parcels, large letters, tote bins and cartons, ranging from 45g to 80kg. Throughputs of up to 20,000 per hour can provide some of the greatest efficiencies of all automation solutions.

Our systems utilise manual, semi or fully-automatic induction feeds. They can offer a range of offload options such as chutes, powered rollers and belt conveyors. As part of our integration solution, we can enhance any system and verify product integrity before sortation by implementing multiple array barcode readers, check weighers and DWS.

Our range of sortation equipment accommodates low to high-speed throughputs. From our range of standard wheel sorters, Horizontal and Vertical crossbelt sorters to pusher and split tray sorters, CSL has a solution to meet your application and demands.

Find out more about Sortation
on our website





Sortation

With solutions offering throughputs from 1,000/hour up to 20,000/hour, our mechanical-based sorter technology ensures CSL can design and install integrated systems that are energy efficient, low maintenance, and quiet operationally. Additional benefits include:

- ▶ Maximum efficiency and accuracy
- ▶ Minimise risk of human error
- ▶ Reduce number of touchpoints
- ▶ Integrates with existing WMS/software systems



Find out more about Sortation
on our website

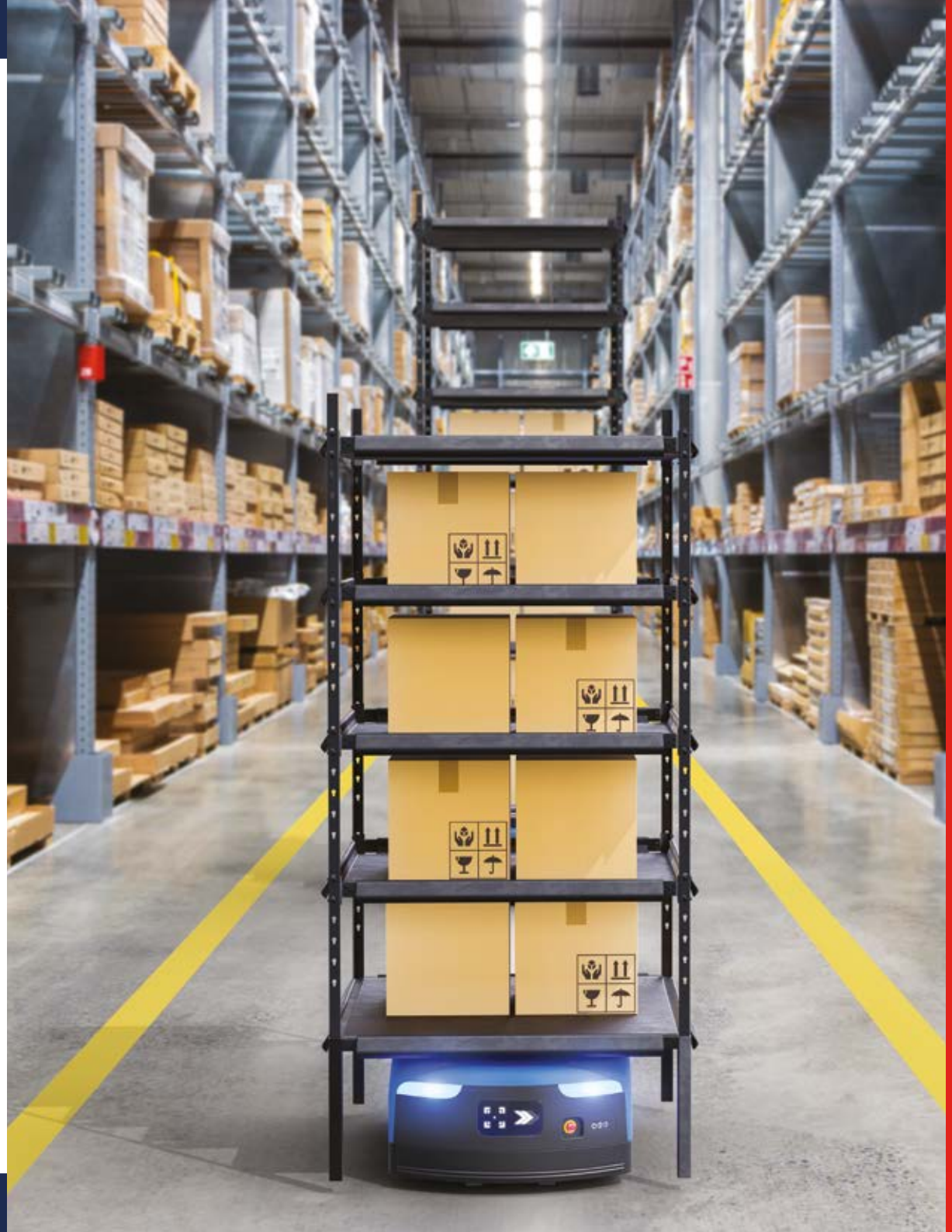
Goods-To-Person

Goods-To-Person (GTP) automation is a warehouse picking strategy where items are automatically brought to operators, rather than operators walking to retrieve items. This is particularly well-suited to high-volume ecommerce operations where speed, accuracy, and efficiency are paramount.

Several technologies can power a GTP solution, including **Automated Storage and Retrieval Systems (AS/RS)**, **Autonomous Mobile Robots (AMRs)**, shuttles, and vertical lift modules (VLMs). These systems store inventory in a compact, high-density format and automatically retrieve required items for pickers stationed at their workstations. Integration with warehouse management software ensures real-time inventory tracking and seamless order processing, contributing to faster and more accurate order fulfilment.

The benefits of GTP automation are significant. Studies have shown that GTP systems can reduce labour requirements by up to **70%**, cut order cycle times by **50%**, and increase picking accuracy to over **99.9%**. Additionally, companies can see space savings of **40% or more**, thanks to the dense storage configurations enabled by automation. Overall, the investment in GTP technology can lead to a return on investment (ROI) in as little as **two to three years**, making it a highly attractive option for businesses aiming to scale efficiently and remain competitive in an increasingly demanding eCommerce landscape.

Find out more
on our website





Autonomous Mobile Robots (AMRs)

Autonomous mobile robots (AMRs) are self-navigating robots designed to operate and make decisions independently without human intervention. In warehouses and distribution centres, they are used to automate material handling tasks such as transporting goods, picking and packing orders, sortation systems and organising inventory.

AMRs work in conjunction with other automation systems to improve the efficiency, speed, and accuracy of warehouse operations. They can be programmed to follow specific routes, avoid obstacles, and interact with other systems, such as conveyors and storage units, to optimise the flow of goods. Additionally, they can be easily reconfigured to accommodate changes in the warehouse environment and product demands.

The range of AMRs includes sortation systems, tote/order picking, picking-rack handling and pallet handling.



Find out more about AMRs on our website

Vertical Storage

Automated Vertical Lean Lift Storage solutions are a flexible solution for many industrial storage requirements. Housing several product trays, a central motorised elevator moves them from the supporting shelves down to the operator bays and one or more bays for picking and refilling of materials.

With rapid installation, these Vertical Storage solutions offer a considerable benefit in space-saving, stock security and efficient and accurate order picking, providing a fast return on investment.



Find out more about Vertical Storage
on our website





Pick-To-Light

Pick-To-Light is an order-fulfilment technology that uses lights to guide warehouse order pickers to the correct locations of items they need to pick.

Each storage location in a warehouse is equipped with a light display. When an order is processed, the relevant lights illuminate, indicating where items are located and how many items need to be picked.

Operators then confirm the pick by pressing a button and can override the pick quantity requested if there are short picks, etc.

Put-To-Light

Put-To-Light is an order-replenishment technology that uses lights to direct warehouse operators to the correct locations for placing items into stock.

Operators confirm placement by pressing a button, ensuring accuracy and efficiency in stock replenishment. The system also allows for adjustments if needed, such as handling shortages or reallocating items.

The same technology can be used in a reverse function for 'Put Away' replenishment functions and order consolidation functions via a Put Wall.

Pick / Put-To-Light technology is suitable for:

- ▶ eCommerce fulfilment centres: High-volume order picking for direct-to-consumer shipments.
- ▶ Warehouses: Efficient inventory management and order picking for various supply chain processes.
- ▶ Factories: Assisting in the assembly process by guiding workers to the correct components.
- ▶ Distribution centres: Streamlining the sorting and picking of items for shipping to retail locations.

Palletisers

A palletiser is a machine designed to automatically stack products, cases, or goods onto pallets in a consistent and efficient manner. This task was traditionally carried out manually, a process that was not only labour-intensive but also time-consuming and costly, particularly in high-volume operations.

There are several palletising solutions to choose from, including the widely used conventional layer palletisers, which are typically classified as either high-level or low-level systems:

- ▶ High-level palletisers: These machines receive products at an elevated infeed point. The pallet begins at floor level and lowers incrementally as each new layer is placed on top. This design is ideal for operations with fast-moving production lines and limited floor space.
- ▶ Low-level palletisers: These systems accept product closer to the ground. The pallet remains in a fixed, low position while layers are stacked above it. This setup often provides easier maintenance access and can be preferable where operator ergonomics and safety are a priority.



Find out more about Palletisers
on our website



Robotic Palletising Solutions for Smarter Warehousing

Robotic palletisers offer a fast, reliable, and cost-effective way to automate pallet stacking in your warehouse. By taking over repetitive manual tasks, these systems boost throughput, improve consistency, and help reduce workplace injuries. Whether handling high volumes, varied SKUs, or complex stacking patterns, robotic palletisers deliver accurate, efficient results every time.

Perfect for logistics hubs, manufacturing lines, and distribution centres, our palletising solutions improve productivity while reducing reliance on manual labour. With flexible integration, minimal downtime, and long-term cost savings, robotic palletisers are a smart investment for any future-ready operation.

Mezzanines

Making the most of your valuable space in your warehouse has always been very important. We can help make the most of space with innovative mezzanine design and storage solutions. Well-designed mezzanines and storage can also form part of the warehouse flow, starting with goods-in, storage, order picking, despatch sorting, multi-floor product movements, packing etc.

Mezzanines can also house gantry's or office spaces within your facility.

We will design the mezzanine, including fire protection and can include any lighting requirements. Our design process includes calculating structural and floor loading and any storage/shelving requirements.



The design process involves the use of the latest 3D BIM modelling design and manufacturing software which can provide the floor loads and relevant calculations. As part of the package, we offer a variety of wood floor finishes, including uncoated decking, clearcoat lacquered decking, epoxy coated, epoxy non-slip and steel mesh.





Shelving & Racking

We can include Shelving & Racking as part of our complete, turnkey solutions. We work closely with our clients to understand their specific storage requirements and offer customised, practical, cost-effective solutions.

Additional Warehouse Products

Other practical solutions can be included in projects including;

- ▶ Column protection
- ▶ Barriers
- ▶ Safety rails
- ▶ Safety netting
- ▶ Line marking
- ▶ Step-overs
- ▶ Pack benches
- ▶ Totes



Find out more about Mezzanines and other warehouse products on our website

Our Customers

CSL Automation are proud of the relationships we have built and maintained over the last 25+ years by delivering customer projects on time, on budget and achieving ROI, working with some of the world's best-known companies and household names.

CSL go over and above to understand our client's needs and exceed expectations by focusing on your requirements, whether it is spatial constraints, sustainability or utilising and integrating the right solution to your existing or new facility infrastructure.

Some of our recent projects are featured below, and you can find more detailed case studies on our website.



View our case studies online.



City Electrical Factors, the UK's leading electrical wholesale network, turned to CSL to design and install an extensive automation system for their 200,000 sq ft Biggleswade distribution centre. Completed in two phases, the project was successfully finished in 2022.



Renowned construction and industrial wholesaler TIMCO appointed CSL to design, build and install an expansion project at their distribution centre in Nantwich, Cheshire. The completed project sees more than 5000 lines despatched per day.

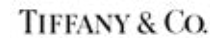


Fulfilment specialists ILG, part of Yusen Logistics, appointed CSL to design and install a conveyor system with carton labelling at their busy Northampton distribution centre.



DB Schenker is one of the world's leading global logistics providers and commissioned CSL to design and install an automated order picking and replenishment system at their Tamworth warehouse, including a twin spiral system.





“

I have found working with CSL the ideal partnership, they understood the brief and worked closely with CEF to ensure the design met all of the criteria. The system has made our new warehouse very efficient and allowed us to increase the throughput.

”

Craig Marks
Divisional Manager
CEF Online



Our History

CSL Automation celebrated 25 years in business in 2022, and in more than a quarter of a century the business has adapted and evolved to keep pace with a rapidly changing world of Conveyor and Automation technology.

From the exponential growth of e-commerce to advances in automated packing and robot technology, we have developed our expertise and product knowledge to provide solutions for warehousing and storage, distribution and production line.

We have built relationships and completed projects for some of the worlds most recognised and respected companies, including the NHS, BMW, DB Schenker and many more, while building partnerships with the worlds best conveyor and automation equipment suppliers including Interroll, Conveyor Units, Ambaflex, Sparck, Qimarox, and many more industry leading companies.





1998



The CSL logo is updated and the company attends its first ever exhibition, Conveyorex in Harrogate.

2002



CSL wins the PPMA award for excellence in customer service.

1999



CSL joins the PPMA and moves into a new unit in Swadlincote, Derbyshire.

2012



CSL moved to a new head office at Oaktree Business Park, Swadlincote. Sales Director Jim Farquhar joins the business.

2004



First eCommerce installation, including spiral conveyor.

2009



3D design software used for the first time. Logo updated to version 3.

2014



Mike Graham takes over as Managing Director.

2019



Phase 1 of a large installation at a 200,000sq ft site completed.

2024



CSL achieves ISO 9001 accreditation.

2017



CSL becomes a member of the Safe Contractor scheme 2024. Gained ISO9001 Accreditation.

2022



CSL moves to a new 13,000 sq ft. HQ.

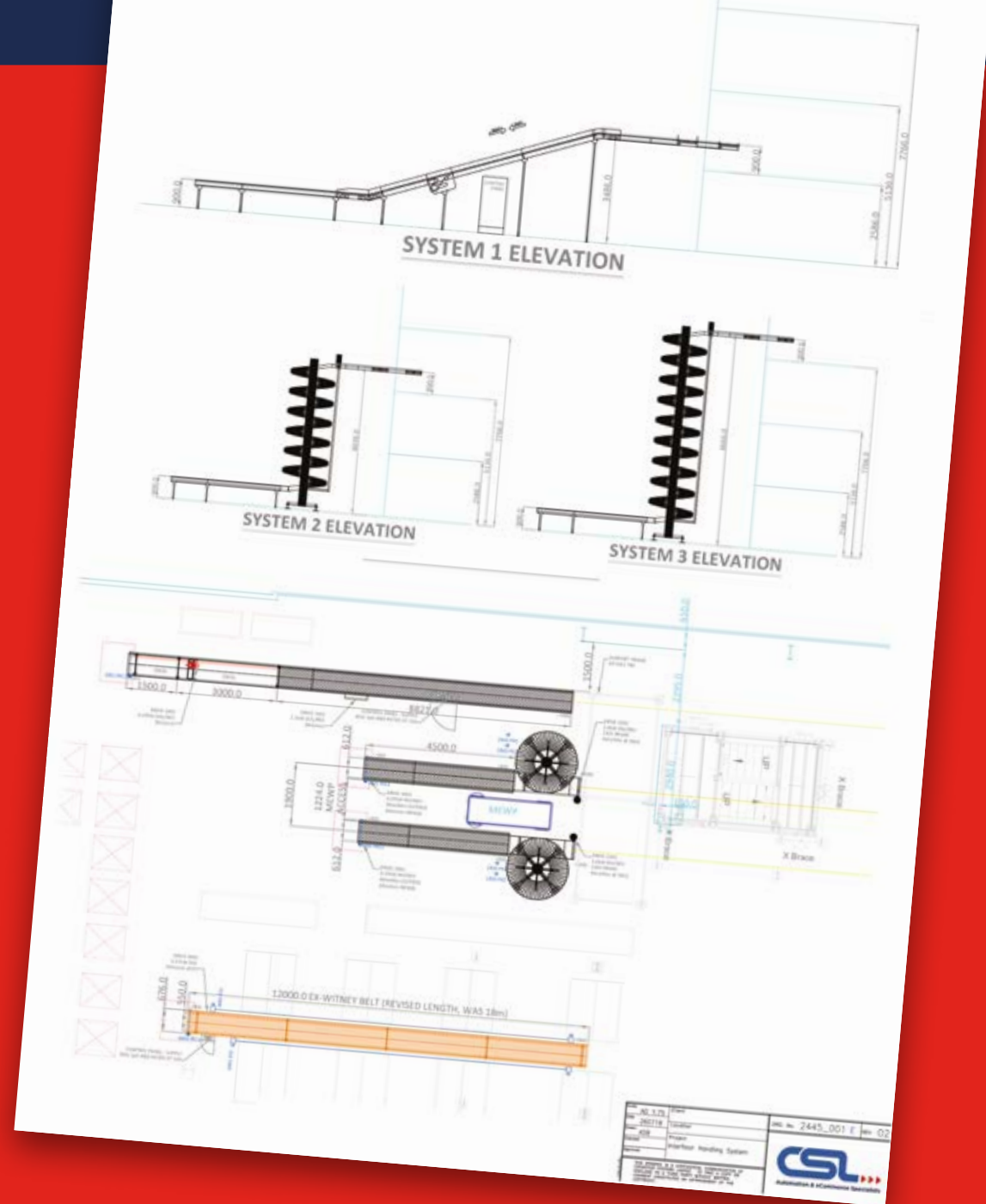
Design & Specification

CSL Automation offer state-of-the-art design and 3D illustration services for conveyor and automation systems. Our team of experts uses the latest technology to bring your vision to life, providing detailed, accurate and highly realistic representations of your systems.

Our design services cover everything from conceptualisation to full-scale product development, with a focus on efficiency, safety and cost-effectiveness. We work closely with clients to understand their requirements and develop innovative solutions that meet their specific needs.

Utilising a wide range of modular and bespoke conveyor solutions enables us to provide customers with maximum flexibility in design to meet your individual handling applications and budgets. Layouts can be designed to integrate with existing conveyor systems and associated equipment.

Our conveyor system applications team can assess individual requirements, however complex, then design and construct the most efficient solution whilst remaining cost effective and within budget.



3D Visualisation

Our designers use the latest 3D software to visualise conveyor and automation projects. This technology enables the creation of highly accurate and detailed models, allowing for an efficient and effective design process.

The 3D models can simulate and test the conveyor and automation systems, ensuring they meet all requirements and function correctly. 3D visualisation makes it easier to communicate design concepts and proposals to clients, stakeholders and other team members, as the models provide a clear and interactive representation of the system.



ConveyorCare



ConveyorCare from CSL is a comprehensive suite of maintenance and servicing solutions designed to cater to the unique needs of your specific conveyor system.

ConveyorCare is designed to minimise downtime, reduce operational costs, and address safety concerns to ensure that your conveyor system operates at peak performance.

Carrying out regular maintenance on your conveyor system will significantly reduce the risk of breakdowns and can highlight parts that need replacing before they fail.

Our Maintenance options include:

- ▶ Annual service contracts
- ▶ System health checks
- ▶ Electrical inspections
- ▶ Remote dial in health checks
- ▶ Ad-hoc/Reactive visits
- ▶ Visual inspections Scheduled/ Preventative Maintenance visits
- ▶ Wear part replacement programme- predictive maintenance

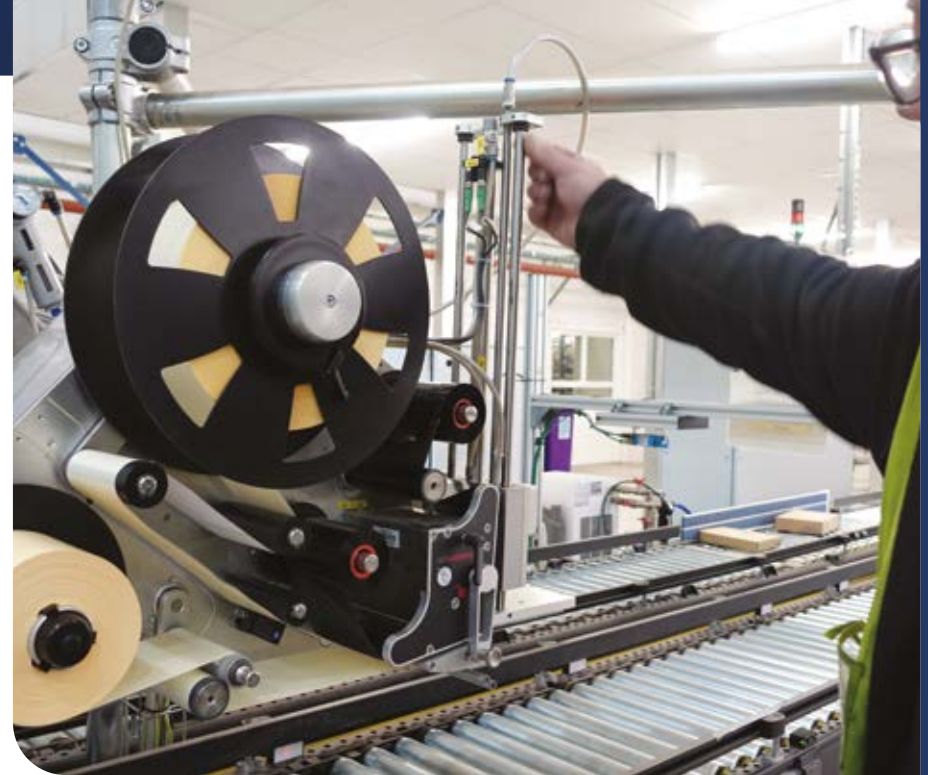
Breakdowns

We understand the importance of your conveyor system within your warehouse, distribution centre or production facility. In the rare event of a breakdown, we will organise one of our experienced engineers to visit the site and carry out the repairs needed to get you operational again.

Modernisation & Upgrades

However well-designed a conveyor system layout is, sometimes, changes in products, company direction, increases in throughputs or changes in scope occur, meaning the previous conveyor system will need changes.

Our continual improvement programs will help you to optimise workflow while also reducing operational costs. At CSL, we understand the importance of your conveyor system and will define a detailed plan of implementation to minimise downtime and disruption.



Servicing

CSL Automation offer a range of servicing packages to help keep your system up and running, including:

Mechanical Servicing

Having a regular service inspection carried out on your conveyor and automation system is no different from a regular car service.

A ConveyorCare mechanical service is based on the PPM (planned preventative maintenance) philosophy, using bespoke checklists and manufacturers' guidelines. Our engineers will carry out an inspection and service.

Electrical Servicing

Electrical faults can disrupt operations and pose safety risks. By identifying and rectifying risks, damaged or worn parts before they fail boost reliability and reduce the chances of unexpected, costly failures.

The CSL ConveyorCare electrical service contract includes inspecting components such as:

- ▶ eStops
- ▶ Field devices
- ▶ Wiring
- ▶ Safety circuits
- ▶ Breakers

Spare Parts

We Keeping spare parts on-site is strongly recommended — over 85% of breakdowns can be fixed during the first engineer visit if the right parts are available.

We offer everything from ad-hoc part orders to complete spares packages tailored to your system, including mechanical, electrical, and control components.

Parts can be fitted by your team or by our experienced CSL engineers. We supply genuine spares from stock and from our trusted suppliers, with expedited delivery options available.

Find out more
on our website





Conveyor & Automation Solutions

Let's get things moving

Contact us today to discuss your automation requirements

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Use the QR code to visit the Contact page on our website



cslautomation.co.uk/contact



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