

**Conveyor Systems  
Control Systems  
Installations  
Service and Maintenance**

## Welcome

Monk Conveyors Limited is a UK based company with over 25 years' experience in conveyors and automation. With our strong engineering and automation background we can offer you the advice you need to select the right conveyors. We will work with you to provide the best production solution to move materials and products around your factory. Our goal is to provide cost effective solutions with a high level of service.

## Products

Our philosophy is to always look and apply the simplest solutions. We have a comprehensive range of standard conveyors and automation devices. By using as many standard products within our systems, they will be reliable, easy to maintain and cost effective. Our engineering design capability means we can also manufacture special equipment when required.

## Services

We supply individual conveyors, through to complete turn-key factory installations. Our distribution systems use PLC and PC control with touch screen distribution software, sensors, bar code readers, pneumatics and electrics. Our installation and service team support our customers within the UK and internationally.

## Industries & Applications

We supply to a large range of different industries and our equipment handles a wide range of different products.



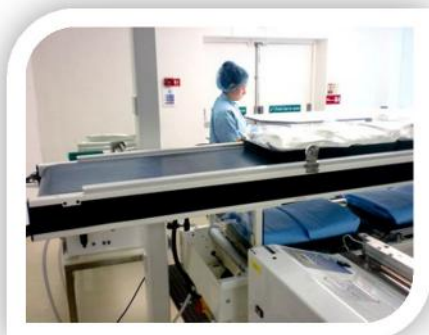
**Food and Packaging**



**Optical Conveyors Systems**



**Warehouse, Tote & Parcel**



**Medical & Pharmaceutical**



**Automotive and Automation**



**Retail & Sushi Conveyors**

## Why Choose Us?

Monk Conveyors has over 25 years' experience in conveying and handling equipment, and we have seen products of many different shapes and sizes. We listen to customers and always find out about the product and processes within your factory. By understanding as much as possible about your requirements, we will be able to offer better solutions. All our customers expect high reliability and durability, and we expect nothing less from the systems we install.

### Design

Designing a conveyor system involves careful consideration of operators, machines throughput, and capability and down time. Even accounting for tea breaks and shift changes can help us design a line which will not have bottlenecks, and have the right product buffers to keep production moving smoothly and efficiently.

### Suppliers

We only use suppliers which we can work with, and will work well with us. We know that support from our suppliers and their ability to work with us is very important to provide a successful complete solution.

### Customers

We are fortunate to have some great customers who come back to us again and again. We never take this for granted, and we work hard to keep all our customers happy. We know that keeping customers is extremely important, so our goal is to deliver systems and service which will keep you happy and make you want to use us again in the future.

### Staff

Our staff are the key to our business and we have a great team. We cannot operate effectively without people who work well together and have the right experience. Everybody is amazingly committed to getting the job done right and working to their best abilities. We are very proud of our staff, their positive approach and their effort they put in to keeping customers happy.

### Flexibility

We have a flexible attitude. If last minute changes need to be considered, if a customer suddenly has to delay an installation or if an installation needs to move to out of hours to avoid disruption. We will work with you and try to accommodate this as much as possible.

### Enjoyment

We enjoy our work, and this is very important. We enjoy the challenges which come up with each individual conveyor or full project. We hope this is reflected in the service and the contact you have with us. A busy and enjoyable working atmosphere is important to us all.



1980's



1990's



2000's



2010's

## 3D CAD

We design systems using 3D CAD software. We are able to provide 3D drawings at the sales stage, which means customers can easily visualise the proposed system. Complex layouts can be viewed from different angles, customers product can be shown on the system. This brings to life the proposed solution and can also help the customer explain proposed changes to staff. Our 3D CAD is a valuable product to design and build the final system, allowing us to assemble components, build the system around your existing factory and highlight any potential problems.



CAD View of proposed system

## Maintenance

Monk Conveyors offers mechanical and electrical maintenance support for our systems. We can provide a plan from quarterly to annual visits depending on the demands and size of your system. We can also support you for emergency breakdowns with agreed response times. Spare parts packages can be provided which can then be maintained and restocked by us after each visit.



## Spares & Training

We offer full spares and training which is very important to keeping your production line running without issues. For each project we will produce a spares list with items graded from critical to low wear. We can also walk through the line with you to identify spares as part of our training.



Training is critical as it gives your operators and maintenance staff confidence and helps them take ownership of the line. Our systems are designed to be easy to fault find and maintain. Faults are often simple and relatively quick to fix when engineers know where to look and how to identify problems.

## Control Systems

Monk Conveyors designs and builds control systems, and will carry out the full mechanical, electrical, pneumatic and software setup. Controls range from a single motor up to a full control system with HMI touch screen, line mimic and bar code system.

The control panel will be designed to suit the line. Rockwell Allen Bradley PLC's are used as standard, but if customers have specific requirements then we will use Siemens, Mitsubishi or other leading manufacturers.



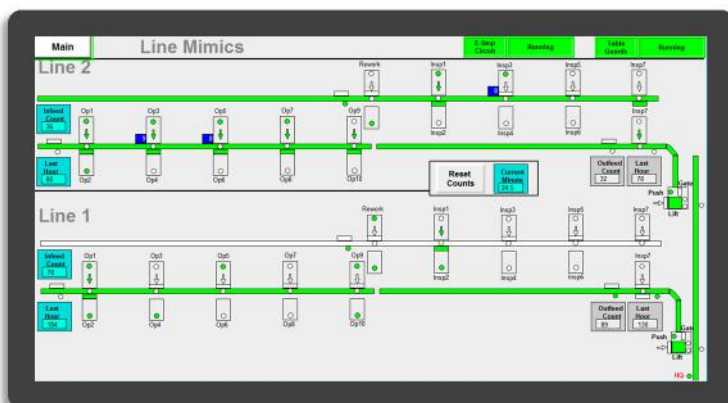
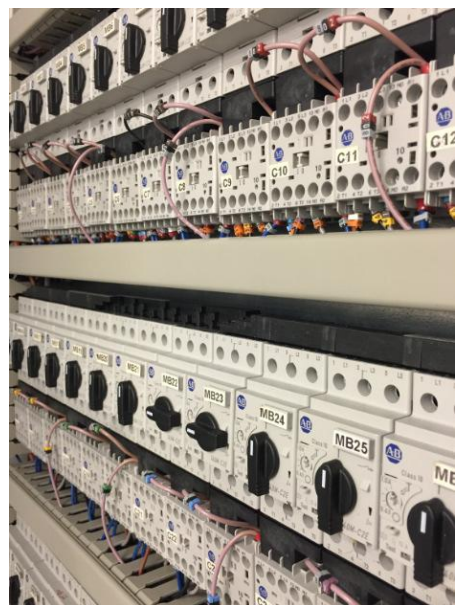
Control Panel with Touch Screen HMI

Cable routing and piping around the system will be finished to a high standard, to give a clean appearance to the system. Systems can be fully labelled and we will always work to the customer's specific requirements when required.

Our distribution software can manage the conveying of products along predefined routes to selected machinery. This enables you to move product accurately and cost effectively through your factory. Machines will be kept fed with work without the need for operators to manually feed them. This reduces machine idle times and production costs. Conveyors can stop and start automatically, queues of products can be controlled. If a machine is out of action for maintenance there can be options to route product to other areas. Our system can communicate with barcode readers and other machine control systems.

We often need to work around existing machinery and can pause downstream machines to allow the line to control all equipment.

Remote access to the PLC and barcode system means that we can dial in to make minor software changes and assist site with problem solving. This allows for improvements or changes to be made quickly and without a PLC software engineer visiting site. This system can also be used for fault finding from our central office.



Line Mimic showing status of conveyors and pneumatics

## Barcode and Product Recognition

It is often essential that our conveyor systems route product to specific machinery or production cells. Monk conveyors are able to route products based on Barcodes, RFID, Colour, Character and Symbol Recognition as well as utilise vision systems.

We can select from a large variety of peripheral equipment to integrate with our control systems and are able to integrate with higher level management systems utilizing custom written software drivers.

For Warehouse Management Systems (WMS) we can communicate via FTP, TCP, RS232, ODBC protocols.

In the Optical Industry we are able to utilize VCA3.10 (VCA Tags) to route product based on job data.



Warehouse packing system with Barcode Scanners

We use bar code heads with our own Ethernet setup. The readers then connect to our PC and PLC based systems. Dial in access to the readers allows us to setup, test and problem solve remotely as required.



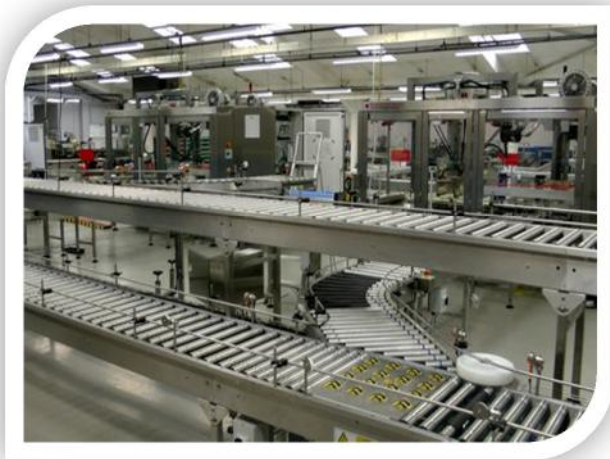
## Installations

Monk Conveyors has mechanical and electrical installation teams. We can provide you with the complete “turnkey” installation. We appreciate that production output will often still be required while installations continue, so we will carefully plan our installation and work with you to find the best solution which causes minimal disruption.

We will offer the following services as part of our installations:

- Installation Plan and Site meetings
- Logistics for delivery and unloading on site
- Risk Assessment and Method Study (RAMS), PPE and PAT tested site equipment
- Attending site inductions
- Provide or nominate First Aiders
- Provide removal of waste
- Mechanical Installation
- Electrical Installation
- Control Panel supply, installation and setup
- Software write and testing
- Commissioning and handover
- System sign off and snagging
- Operating training
- Maintenance mechanical and electrical training
- Documentation including Instruction manual, maintenance, spares and electrical drawings
- Service and maintenance contracts

Health and Safety of your staff and our staff is an absolute priority on every site.





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