



ST Machinery Sales Ltd

Efficiency and Customization: Innovative Conveyor Solutions



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STANDARD CONVEYORS

Conveyors are fitted to the following as standard

Highly efficient single-phase motors with speed control. - Highly efficient single phase 230V Brushless DC Motors with Easy Adjust Speed controls supplied by Oriental Motors UK are fitted as standard in a large number of our conveyors.

The Motors are Watertight and dust resistant to IP66, with a speed range of 0.5 – 13 M/min. Conveyor speeds can be easily adjusted and locked by the end user on site.

The controller features easy interface external NPN/ Sink (0V) signal inputs for Start or Stop or Index of the Conveyor as required.

Modular HMWPE side frame - Our Modular sideframe is made from 25mm High Molecular Weight Polyethylene (**HMWPE**) and is all machined in house on our cnc router. With our modular sideframe design,

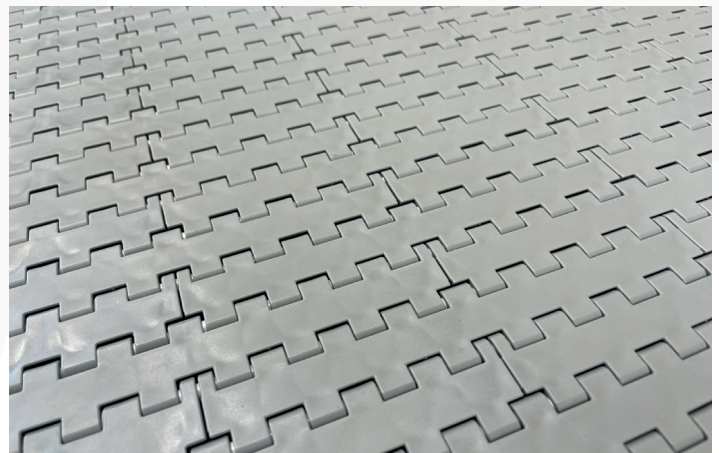
you can modify the conveyor should its use change. We include 58mm sidewalls on all our conveyors as standard, but this can be cut down to belt height if required.

Aluminium Profile - We use an aluminium profile for our conveyor legs and internal tie bars. This easy-to-clean material is also useful to bolt extra components to if needed.

Modular link belt - We only use belt from Ammega and use the uni light range of modular link belt as standard. Standard flight sizes also come in 25,50 and 75mm. Should any repairs need to be made then flight rows or belt can be supplied separately. Useable belt widths range start 125mm and go up in steps of 76mm.



Single-phase motors with speed control



Modular Plastic Belt

- Wide choice of modular conveyor belt types and product support flights.
- Variable speed single phase or 3 phase motors mounted internally within belt track.
- High strength low friction HM Polyethylene PE500 side frames are chemically inert with no corrosion.
- Machined side frames keeps the belt under control and prevents side to side movement, a potential problem with conventional belt conveyors.
- Low running costs and minimal maintenance.

HORIZONTAL CONVEYORS



Unleash Your Potential with ST Machinery's Patented Horizontal Conveyors: Efficiency, Customization, and Reliability at Your Fingertips

All conveyors are made to order with an average lead time of 2 - 4 weeks. We machine all conveyors as standard in blue HMWPE but a change in colour is also not a problem.

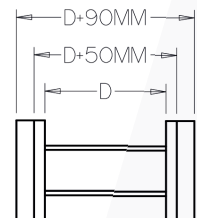
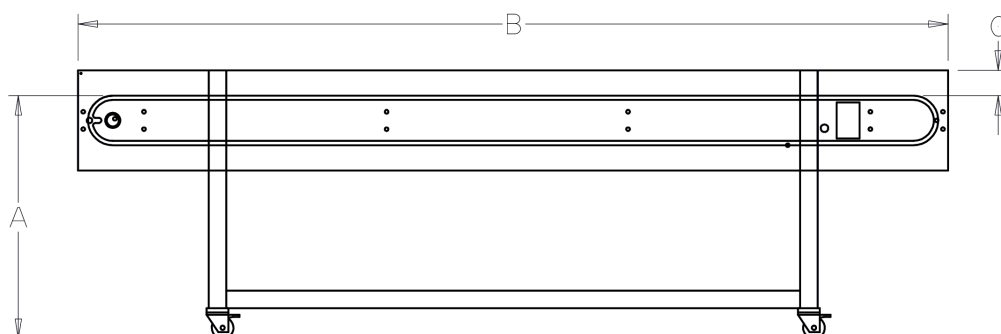
Horizontal Conveyor side frames are mounted in anodised aluminium section to give a solid and robust structure for years of use.



Underpress Horizontal



Large Horizontal Cooling Bunker



- A - FLOOR TO BELT HEIGHT
- B - CONVEYOR LENGTH
- C - SIDEWALL HEIGHT
- D - USEABLE BELT WIDTH
- D + 50MM - SIDEFRAME WIDTH
- D + 90MM - LEG WIDTH

HORIZONTAL INCLINE CONVEYORS

Horizontal to Incline Conveyors Quality Manufactured in the UK to Your Exact Requirements

ST Conveyors offer modular plastic **Horizontal Incline Conveyors** of any length in a variety of widths and colours, individually designed to meet application and space requirements.

There is a wide choice of modular plastic conveyor belts and product support flights.

Variable speed single phase or 3 phase motors mounted internally within belt track.



High strength low friction HM Polyethylene PE500 side frames are chemically inert with no corrosion.

Machined side frames keep the belt under control and prevent side to side movement, a potential problem with conventional belt conveyors.

Low running costs and minimal maintenance.

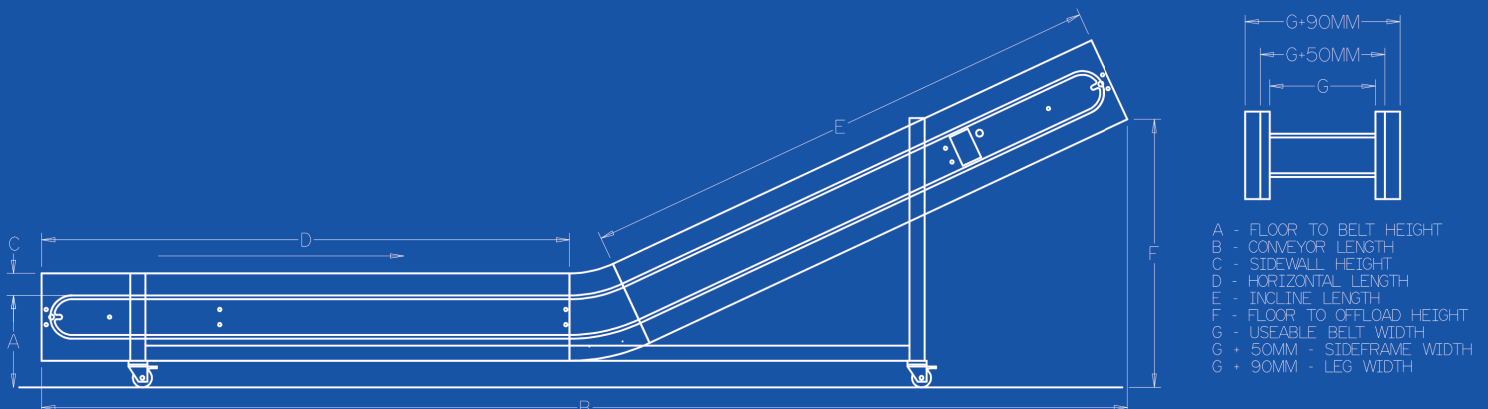
The modular belt can be completely removed from a conveyor in less than 3 minutes for easy cleaning, adding or removing product support flights.

The modular plastic Horizontal Incline Conveyor side frames are mounted in anodised aluminium section to give a solid and robust structure for years of use.

Option of castors or foot mounted.

All ST **Incline Conveyors** can be supplied with a variety of ancillaries such as metal detectors, weigh scales, cooling fans and also with a variety of control systems from simple stop/start to fully integrated units.

Horizontal Incline Conveyors are available with complementary product handling equipment - **Rotary Box Fillers, Roller Separators** and **Paddle Separators** in matching colours designed for exact process requirements.



INCLINED CONVEYORS

Tailored to Perfection: UK's Finest Incline Conveyors, Customized to Your Specifications

ST Patented low friction plastic **Incline Conveyors** offers infinitely variable lengths of Incline conveyors in a variety of widths and colours individually designed to meet application and space requirements.

Why compromise on a **standard Incline Conveyor** when we can design and build you a bespoke conveyor system for your exact requirements at comparable costs.

There is a wide choice of modular conveyor belt and product support flights.

Variable speed single phase or 3 phase motors mounted internally within belt track.

High strength low friction HM Polyethylene PE500 side frames are chemically inert with no corrosion.

Machined side frames keep the belt under control and prevent side to side movement, a potential problem with conventional belt conveyors.

Low running costs and minimal maintenance.

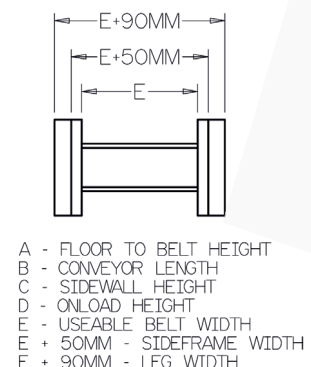
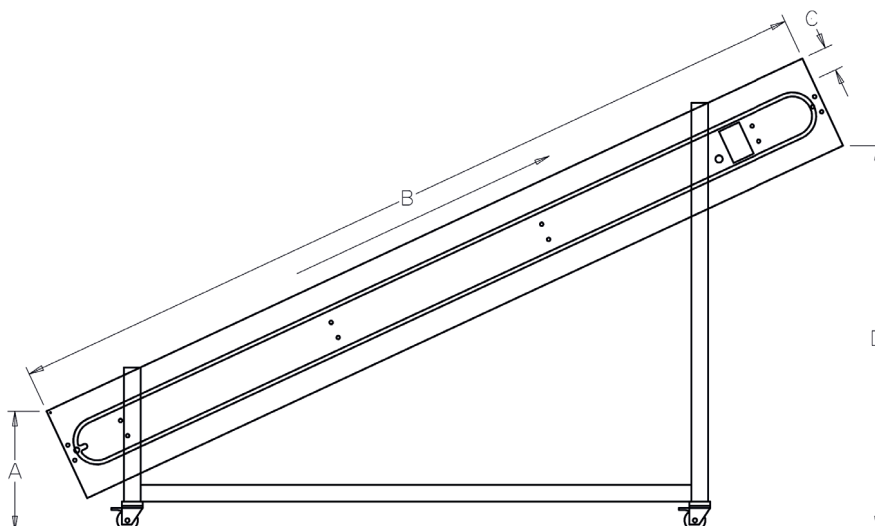
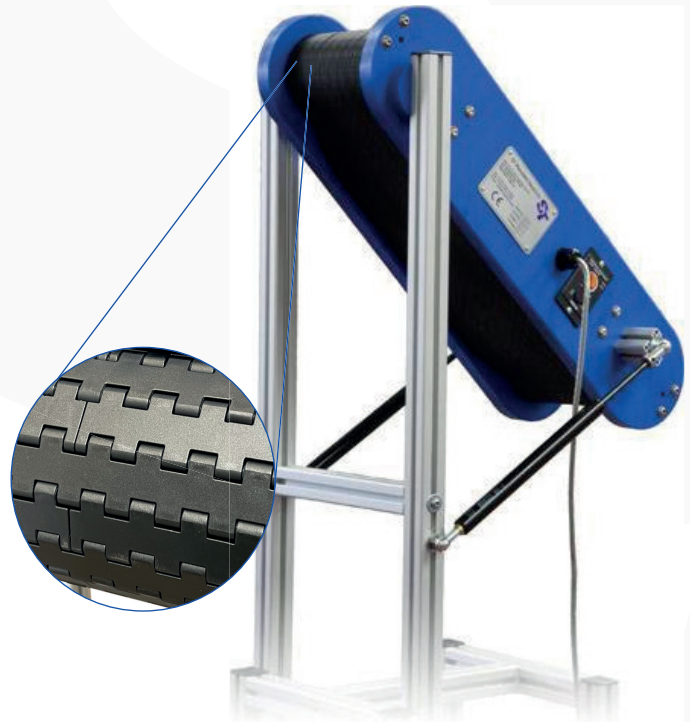
The modular belt can be completely removed from a conveyor in less than 3 minutes for easy cleaning, adding or removing product support flights.

Incline Conveyor side frames are mounted in anodised aluminium section to give a solid and robust structure for years of use.

Option of castors or foot mounted.

All **ST Incline Conveyors** can be supplied with a variety of ancillaries such as metal detectors, weigh scales, cooling fans and also with a variety of control systems from simple stop/start to fully integrated units.

Incline Conveyors are available with complementary product handling equipment - **Rotary Box Fillers**, **Roller Separators** and **Paddle Separators** in matching colours designed for exact process requirements.



SWAN NECK CONVEYORS



Modular Plastic Swan Neck Conveyors with Modular Plastic Belt

Swan Neck Conveyors are ideal for use with plastic injection and blow molding machines.

With fast turnaround from design to delivery, ST Machinery Ltd, a renowned UK manufacturer of conveyor systems, can build swan neck conveyors to your exact requirements at a comparable cost to 'off the shelf' lower quality conveyors.

Our patented low friction plastic conveyor design offers infinitely variable shapes, and sizes of **Swan Neck Conveyors** in a variety of widths and colours to produce a bespoke conveyor to meet any machine or process application.

Features:

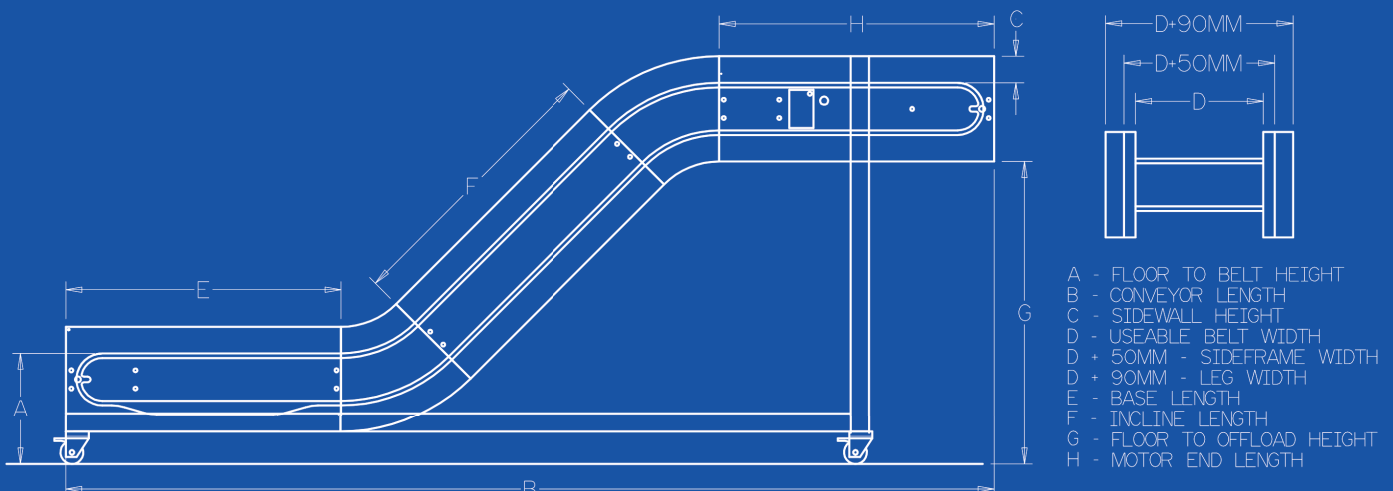
- Wide choice of modular conveyor belt types and product support flights.
- Variable speed single phase or 3 phase motors mounted internally within the belt track.
- High strength, low friction HM Polyethylene PE500 side frames are chemically inert with no corrosion.
- Machined side frames keep the belt under control and prevent side to side movement, a potential problem with conventional belt conveyors.
- Low running costs and minimal maintenance.
- Option of castors or foot mounted.

The modular belt can be completely removed from a conveyor in less than 3 minutes for easy cleaning, adding or removing product support flights.

Swan Neck Conveyor side frames are mounted in anodised aluminium section to give a solid and robust structure for years of use.

All ST **Swan Neck Conveyors** can be supplied with a variety of ancillaries such as metal detectors, weigh scales, cooling fans and also with a variety of control systems from simple stop/start to fully integrated units.

Swan Neck Conveyors are available with complementary product handling equipment - **Rotary Box Fillers, Roller Separators** and **Paddle Separators** in matching colours designed for exact process requirements.

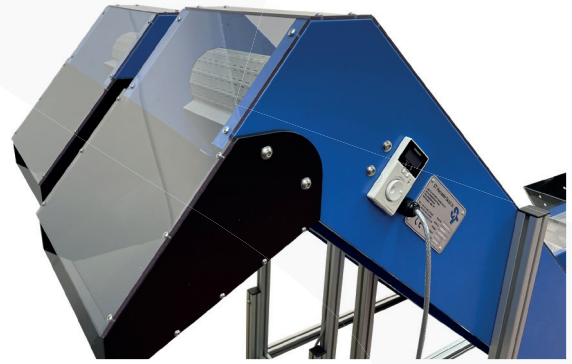


CONVEYOR OPTIONS

Efficient Plastic Sprue Separation: Customizable Paddle Separator Conveyors for Precise Component Handling



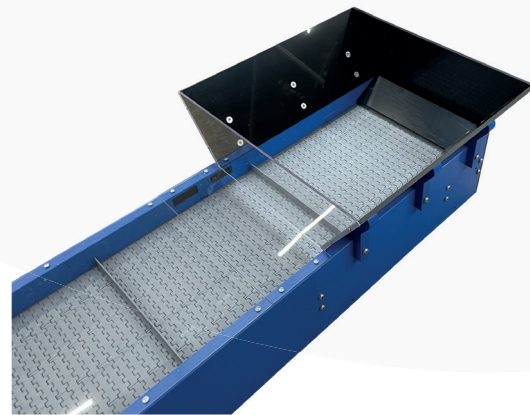
Stainless Discharge Chutes



Plastic Discharge Chutes



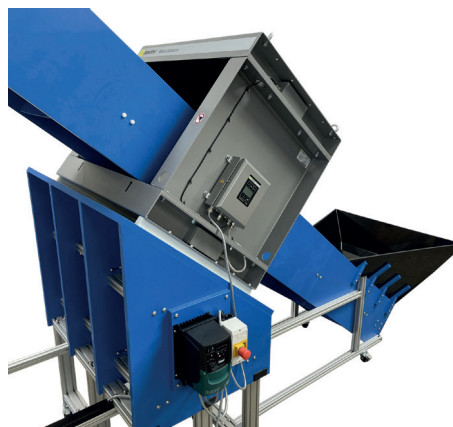
Robot Guarding



Plastic Infeed Chutes



Clear Covers



Tunnel Metal Detectors



Cooling Fans

PADDLE SEPARATOR CONVEYORS

Efficient Plastic Sprue Separation: Customizable Paddle Separator Conveyors for Precise Component Handling

For plastic part sprue separation ST Conveyors offer plastic part runner conveyors with **Paddle Separators** available in infinitely variable lengths and in a variety of widths and colours individually designed to meet application and space requirements.

Paddle Separator Conveyors are the ideal solution for large component part from sprue separation into separate boxes.

Available as stand-alone units or integrated with conveyors to meet process requirements.

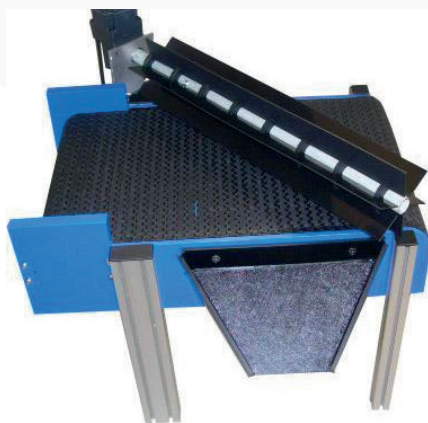
Part sprue **paddle separator conveyors** can be designed with multiple paddles for multiple parts from sprue separation.

Why compromise on standard Paddle Separator Conveyors when we can design and build you a bespoke conveyor system for your exact requirements.

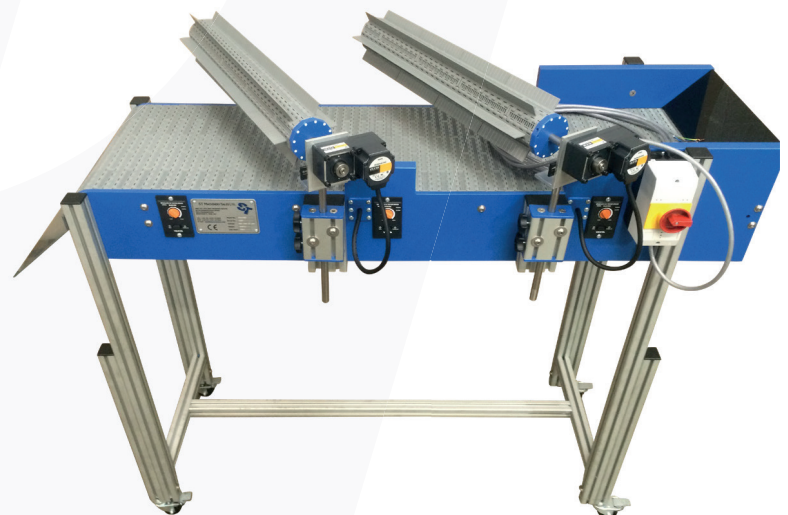
Features:

- Low running costs and minimal maintenance.
- The modular rubber grip top belt can be completely removed from a conveyor in less than | 2 minutes for easy cleaning.
- Option of castors or foot mounted.

Part runner sprue separator conveyors side frames are mounted in an anodised aluminium section to give a solid and robust structure for years of use.



Single Paddle with Swan Neck Conveyor



Double Paddle Conveyor

ROLLER SEPARATORS

Effortless Separation: Roller Sprue Separators for Precise Sorting of Plastic Component Parts

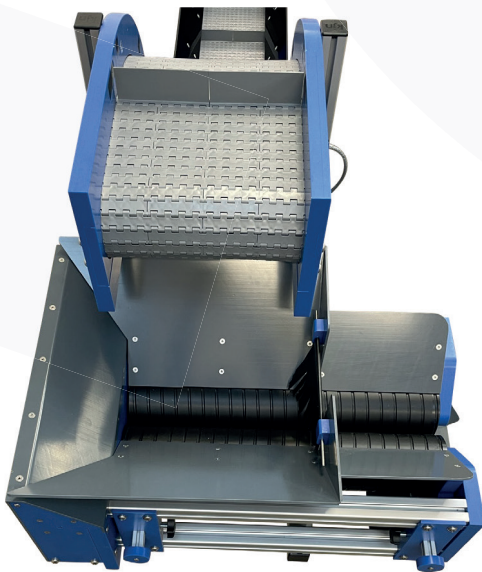
Our **Roller Sprue Separators**, are the ideal solution for plastic component part from sprue separation into separate boxes.

Tailor designed and manufactured in the UK to suit varying conveyor sizes as stand alone units for use under multiple conveyors.

Large twin **Roller Separators** 108 mm dia. give the best separation of very small component parts from sprues with a size differential from 0 to 50mm.

Features:

- Spiral grooves with axial grooves for part / sprue discharge and agitation.
- Easy roller adjustment with large auto adjusting collection chutes.
- Efficient 20 watt internally mounted variable speed single phase motor for discharge and agitation control.
- Virtually maintenance free with no lubrication required.
- Height adjustable or built to custom height.
- Choice of colours.



Roller Separator Integrated With a Swan Neck Conveyor



Stand Alone Roller Separator

ROTARY CHUTE BOX FILLER

Rotary Box Fillers, the ideal solution for product distribution into multiple boxes.

ST Conveyors **rotary box fillers** are tailor designed to suit varying conveyor sizes, either integrated with the conveyor or as stand-alone units for use under multiple conveyors in matching colours to conveyor.

- Up to 10 box positions can be programmed with auto repeat.
- Cycle position and quantity count memory in case of power cut.
- Easy set up program control with large LCD screen.
- Options of variable box quantity fill for differing box sizes.
- Interrupt / Reset function.
- Virtually maintenance free with no lubrication required.
- Efficient 50 watt single phase motor.
- Control can be tailored to suit process requirements.
- Choice of stainless steel or plastic chutes.

Options

- Siren and beacon system to show when boxes are full
- Full line control integration with the Mitsubishi PLC already installed
- Full emergency stop integration with the Omron safety relay



ROTARY TABLE BOX FILLER

Rotary table box fillers are a great alternative to our chute design

The **ST Machinery Rotary Table Box Filler** is a versatile system designed to efficiently fill boxes with products. It comes in three standard sizes, features a durable PE500 base, and operates on single-phase power.

Optional box locators, single or double-tier configurations, and a weigh hopper. With its user-friendly interface and quality construction, it's a reliable solution for optimizing box filling processes.



Single Rotary Table



Double Rotary Table

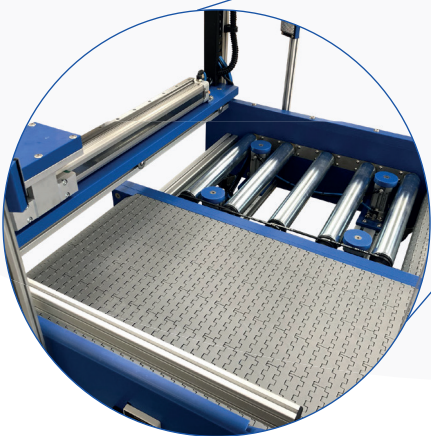
Options

- Siren and beacon
- Weigh Hopper
- Box Locators
- Double Tier
- Clear Safety Covers
- Full line integration with Mitsubishi PLC
- Extra e-stop and line integration

PARALLEL BOX FILLER

Our innovative **Parallel and Inline Box Filling Systems**, designed to provide exceptional efficiency and flexibility for your packaging needs.

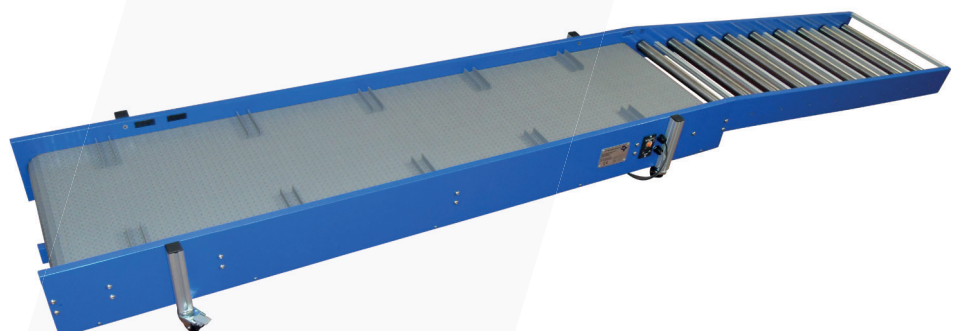
These cutting-edge systems combine the advantages and features of our renowned rotary tables, while also offering an exciting new feature: the option of a built-in box shaker.



Optional Box Shaker

The Custom designed **Box Shaker** maximises the number of products that can be packed into each box. The action is to lift individual boxes using custom designed pneumatic systems.

The Box is shaken as it is being filled optimising the number of items being packed and improving the efficiency of the Box fill packing system.



Inline Box filler

CUSTOM WORK BENCHES

ST Machinery's custom work benches are meticulously crafted to meet the diverse needs of professionals across various industries.



These bespoke tables are constructed using high-quality materials, combining the durability of 25mm PE500 with the strength of an aluminum frame. The result is a robust and reliable work surface that can withstand rigorous use.

The work benches are designed with versatility in mind, offering a range of options to suit individual preferences. Customers have the choice between pad feet or castors, allowing for stationary or mobile setups depending on their requirements.

To enhance visibility and optimize workspace illumination, optional lighting fixtures can be integrated into the **work bench**. These lights are strategically positioned to minimize shadows and provide clear visibility for intricate tasks.

Storage and organization are essential in any work environment, which is why **ST Machinery** offers customizable options such as shelves and shelf dividers. These additions provide convenient storage space for tools, equipment, and materials, ensuring everything is easily accessible during work processes.

For added convenience and efficiency, the **custom work benches** can be equipped with bench power sockets. These sockets allow users to power their tools and devices directly from the work bench, eliminating the need for extension cords and improving overall workspace organization.

To further optimize storage capabilities, the work benches can be fitted with drawers, providing secure compartments for storing smaller items. These drawers can be customized in terms of size and configuration to accommodate specific needs.

Lastly, **ST Machinery** recognizes the importance of aesthetics and offers customers a choice of different color tops. This allows individuals to match the work benches with their existing workspace or personalize them according to their preferences.



ST Machinery, UK manufacturer of quality conveyors

ST Machinery Sales Ltd was founded in 1998 along with the granting of its UK Patent for plastic conveyor systems utilising plastic modular conveyor belts. In the first years of operation our manufacturing facility was able to gain many lucrative clients in the plastics, packaging, automotive, pharmaceutical and recycling industries to name a few.

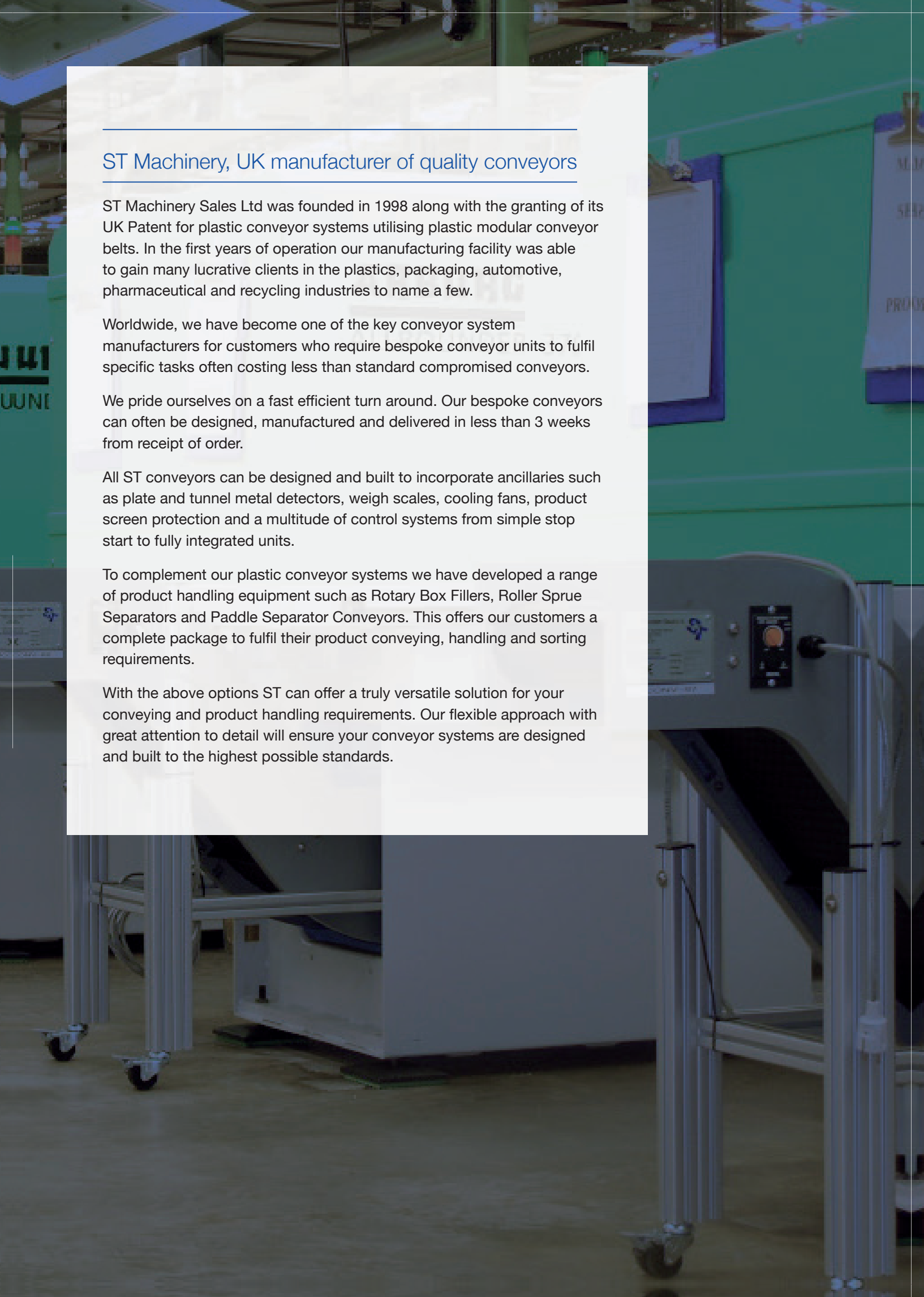
Worldwide, we have become one of the key conveyor system manufacturers for customers who require bespoke conveyor units to fulfil specific tasks often costing less than standard compromised conveyors.

We pride ourselves on a fast efficient turn around. Our bespoke conveyors can often be designed, manufactured and delivered in less than 3 weeks from receipt of order.

All ST conveyors can be designed and built to incorporate ancillaries such as plate and tunnel metal detectors, weigh scales, cooling fans, product screen protection and a multitude of control systems from simple stop start to fully integrated units.

To complement our plastic conveyor systems we have developed a range of product handling equipment such as Rotary Box Fillers, Roller Sprue Separators and Paddle Separator Conveyors. This offers our customers a complete package to fulfil their product conveying, handling and sorting requirements.

With the above options ST can offer a truly versatile solution for your conveying and product handling requirements. Our flexible approach with great attention to detail will ensure your conveyor systems are designed and built to the highest possible standards.



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