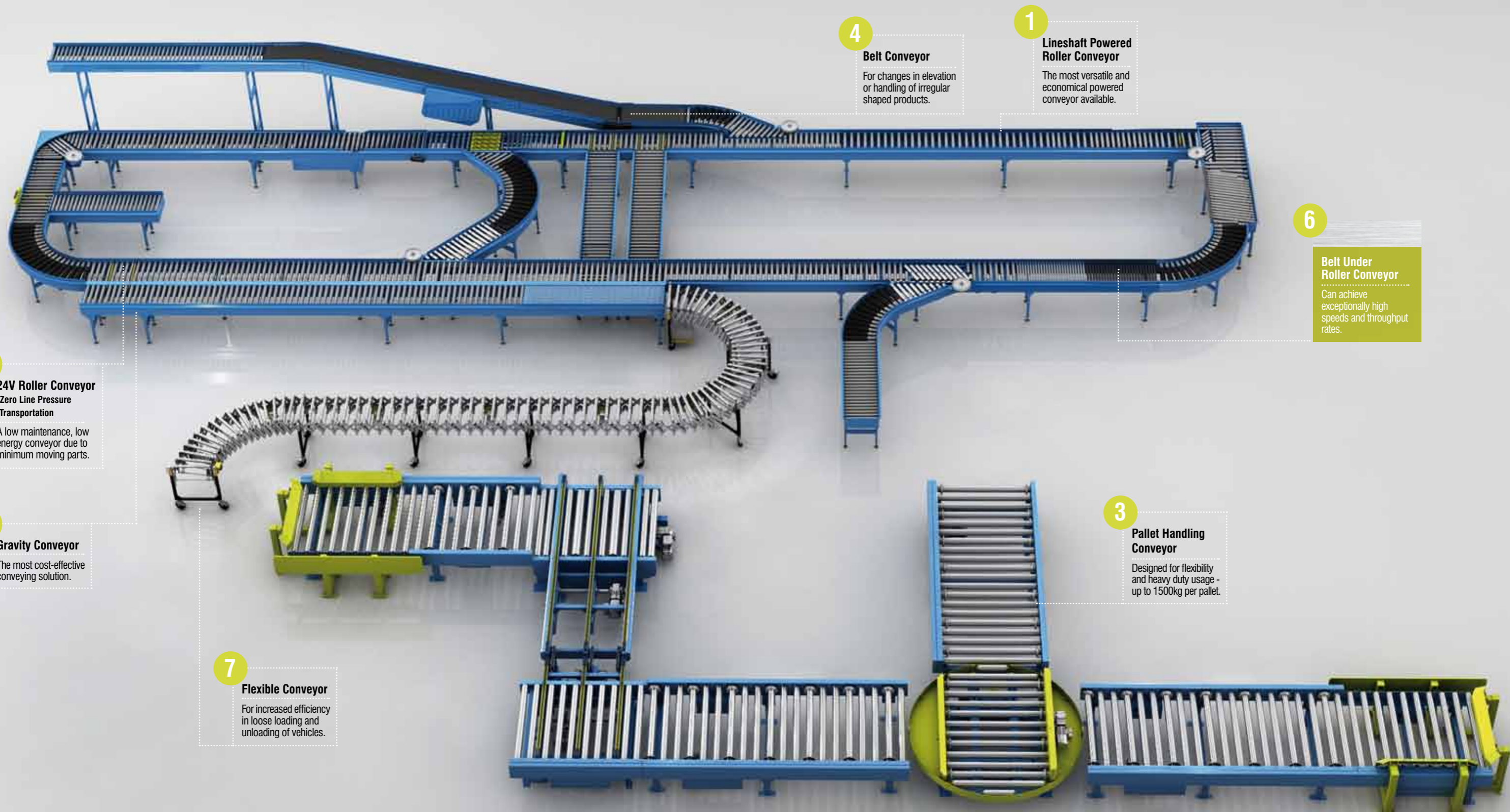




## Belt Under Roller Conveyor

Low maintenance, offering transportation or accumulation and high throughput rates

No. 6 of 7



Quality

Performance

Reliability



### Introduction

The uni-xu® range of conveyors has been integral to thousands of turnkey solutions for some of the most demanding and successful companies across Europe. It is renowned for the robustness of its design, with quality being reflected in a distinct durability in the field. Furthermore, the modularity of the uni-xu® design offers extreme flexibility and simplicity for totally integrated systems. It has been engineered and manufactured in Britain since 1963, resulting in five decades of engineering development and excellence, which today, makes it one of the best known trademarks in conveyor manufacture.

### Facts

- UK's largest conveyor manufacturer.
- 150,000 sq. ft. manufacturing plant on a 7 acre site.
- In excess of half a million rollers manufactured every year.
- Over 15 km of conveyor produced each year.
- Over a third of conveyor orders shipped overseas.

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Focus on Belt Under Roller Conveyor

- Versatility of transporting or accumulating with the option of modifying from one to the other.
- Ideal for conveying medium weight loads (up to 50Kg), over long distances up to 30 metres from one drive, or at high speeds (up to 107 metres per minute).
- Accumulation logic is in-built within the factory-fitted wired up sensors, giving minimal controls interfacing on site, and the benefit of reduced installation costs and low maintenance.



Key Features	Benefits
Modular design.	Allows for variety of arrangements to be made from standard components.
Integral photocells.	Quicker installation and wiring. Reduced costs.
Buffering of totes and cartons WITH contact between products, but WITHOUT line pressure.	Offers maximum system throughput rates.
High speed.	Faster, higher throughputs.
Quiet.	Reduced noise is more conducive to a good working environment.
Encapsulated and fully guided belt path.	Integrally safe.

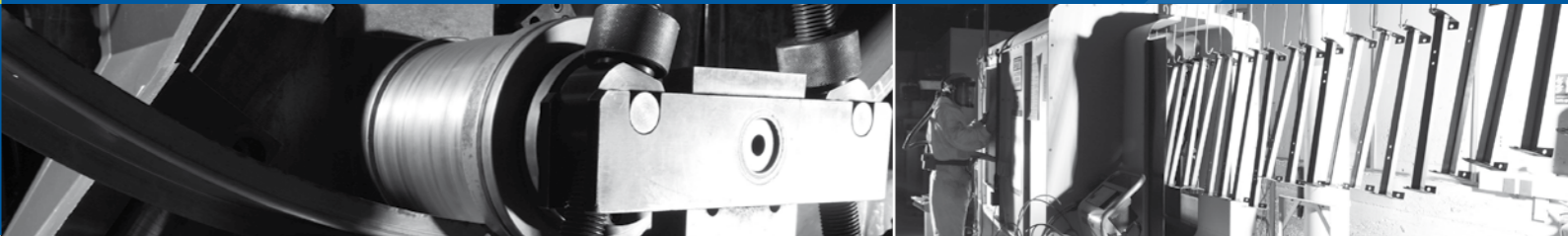
Ancillary modules include:

Stops  
Line Breaks

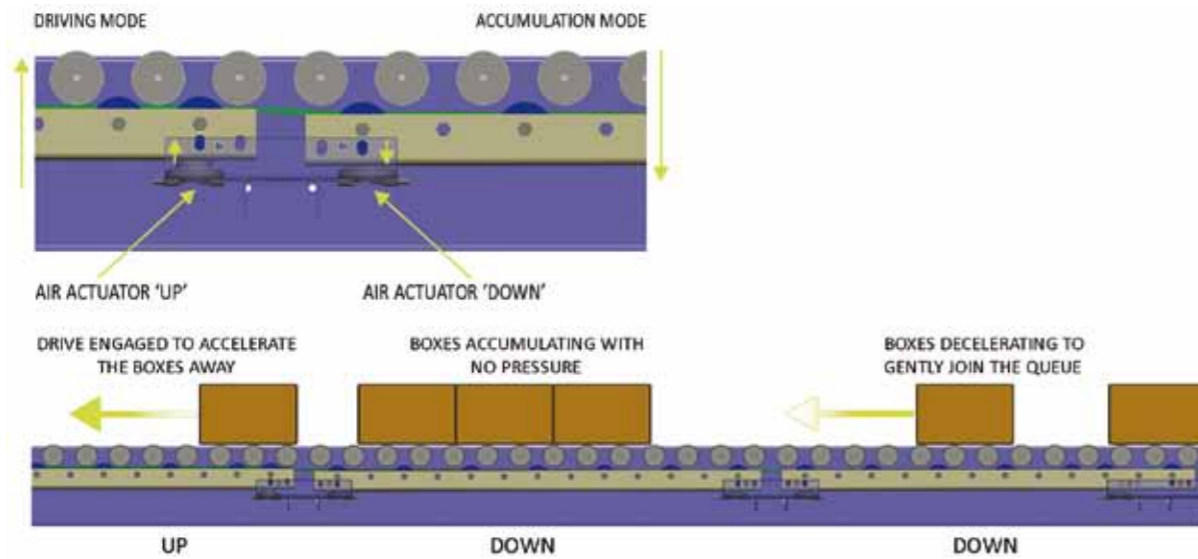
Available in:

Powder coated as standard  
Aluminium  
Stainless Steel

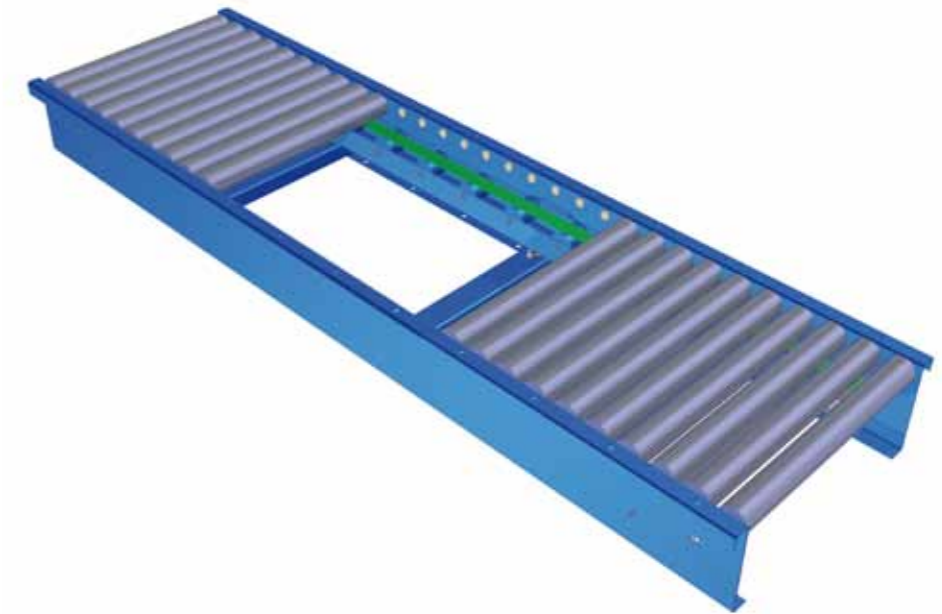
Specification				
Drive Capacity Per Roller	Roller Diameter	Roller Pitch	Standard Track Widths	Standard Speeds (metres per minute)
4.5kg	50mm	75mm, 100mm and 150mm	412mm 462mm 512mm 612mm 762mm 912mm	15 - 111 (0-37kW - 1.10kW Motors available).



## Driving and Accumulation Modes



## Straight Track

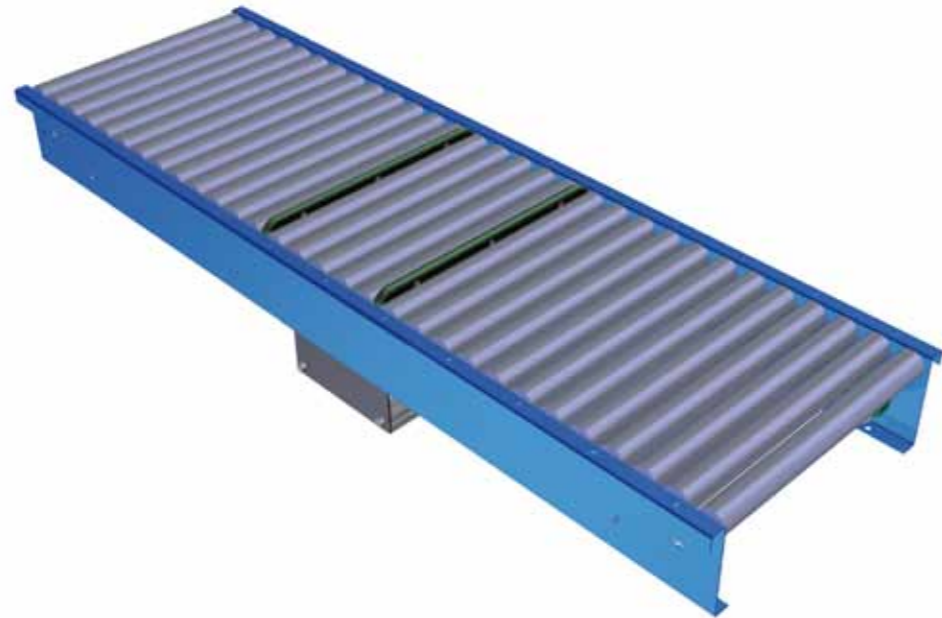


- Both the transport and accumulation variants are constructed from the same components.
- Long conveyor lengths from just one drive can be achieved.
- Accumulation conveyor fitted with integral photocells and accumulation logic.
- Transport conveyor can be easily upgraded at any time to achieve accumulation.

- Incorporates 50mm diameter rollers.
- Rollers fitted at 75mm, 100mm or 150mm pitch.
- Drive capacity 4.5Kg per roller.
- Supplied in 3 metre lengths as standard. Other lengths available on request.
- Standard widths available: 412mm, 462mm, 512mm, 612mm, 762mm and 912mm. Other widths available upon request.
- Full product testing available in our showroom.

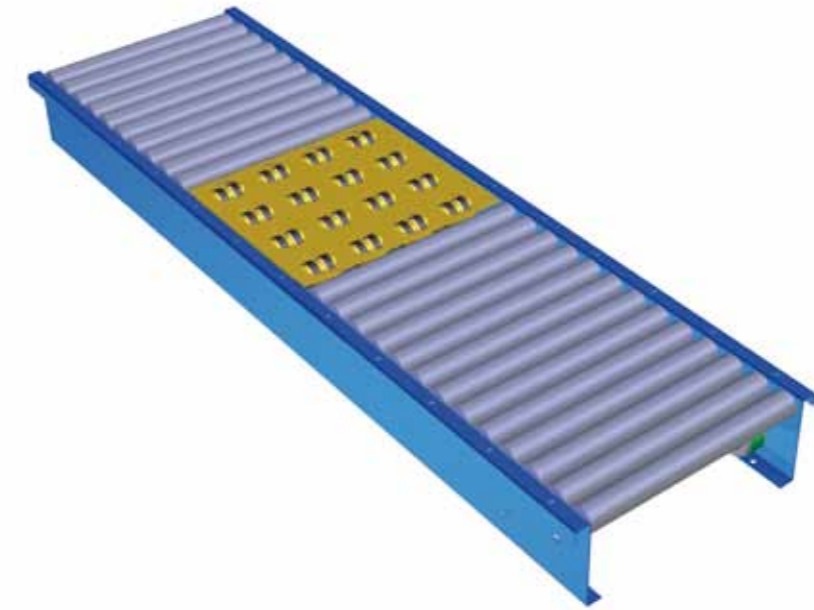


## Belt Transfer



- Can be fitted to straight sections of track with minimum belt centres of 150mm.
- The assembly is actuated to the transfer position by a double acting guided 63mm bore x 25mm stroke pneumatic cylinder.
- Available in twin or triple belt transfers.
- Just one cylinder is required for twin and triple band transfers.
- Air consumption for double stroke 0.59 litres free air per cycle (operated at 3 Bar with 35Kg lift capacity).
- Belts are truly endless timing belts with co-extruded backing.
- Independently driven from its own geared motor unit.
- Transfer 'up' position is 15mm above top of rollers, 'down' position is 10mm below top of rollers.
- Maximum cycle time 25 operations per minute.
- Maximum lift, twin / triple chain - 70Kg (when supplied with air at 6 Bar) and 35Kg (when supplied with air at 3 Bar).
- Standard widths available: 412mm, 462mm, 512mm, 612mm, 762mm and 912mm. Other widths available upon request.

## Switch Sorter



- Independently driven from a 0.37 kW SEW motor, to give either 60 or 110 metres per minute linespeed over sorter wheels.
- Multiple operation: 'straight ahead', 'switch left' and 'switch right.'
- Minimum product size 200mm x 200mm.
- Pneumatically operated 45° switching angle.
- Normally used in conjunction with a 45° mitre section. Other options are available.
- 50Kg maximum product weight per switch sorter.
- We recommend that an inverter is fitted to the gearbox to enable fine tuning of the speed that will be required to suit your application.
- Standard widths available: 462mm, 612mm, 762mm and 912mm. Other widths available upon request.



## Rollers



## Spares



### Optimise Your Operating Efficiency with our Rollers and Parts Service Guarantee

**We have also gained a reputation for supplying high quality competitively priced rollers and spares to all aspects of the material handling industry. Our products are used by blue-chip companies in the UK and throughout Europe.**

We have a high degree of standardisation in our systems which means we can guarantee a particularly rapid and reliable spare parts service to meet the end-users' needs with speed and ease.

Furthermore, by buying replacement parts from the original equipment manufacturer you are helping to ensure that the equipment stays in prime condition, optimizing the operating efficiency of your system.

### Rollers

We are not only the largest conveyor manufacturer in the UK, but also the largest roller manufacturer, producing in excess of half a million rollers every year.

We source and purchase only the best raw materials directly from the mills, and in vast quantities - in excess of 200km of 50mm diameter steel tubing every year. This means that not only does it allow us to constantly meet order commitments, but it also makes our pricing extremely competitive.

Our range of rollers includes: Gravity Rollers, Plastic Rollers, Stainless Steel Rollers, Grooved Rollers, Tapered Rollers, Sprocketed Rollers, Belt Conveyor Rollers, as well as an extensive range of specialised rollers.

### Spares

We also produce an extensive range of stock components, again competitively priced, for Powered Roller Conveyors, Pallet Conveyors, Gravity Conveyors and Belt Conveyors, with all plastic conveyor components injection moulded here on site.

Please give us the opportunity to quote all your roller and spares requirements.

We can guarantee: -

- **Competitive prices.**
- **Fast turnaround.**
- **Extensive product range.**
- **Excellent customer service.**

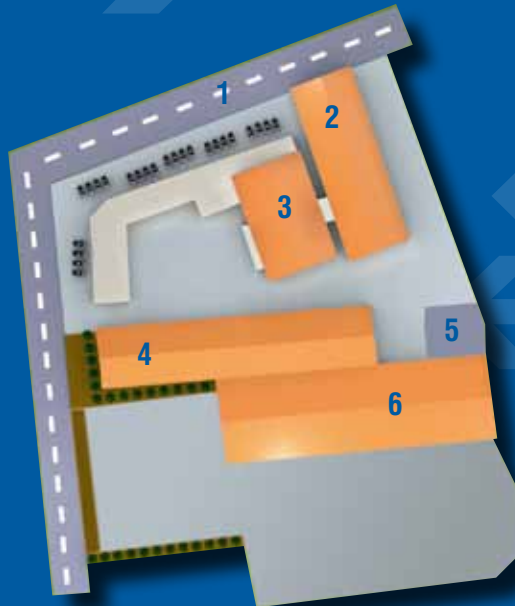


## STOURPORT SITE

- 1 Goods Inwards
- 2 Made To Order Roller Department
- 3 Injection Moulding
- 4 Heavy Duty Drum / Roller Assembly
- 5 Press / Laser Processing Department
- 6 Aluminium Conveyor Assembly
- 7 Heathfield Road
- 8 Sandy Lane
- 9 Product Development
- 10 Tapered Roller Assembly
- 11 Pallet Conveyor Assembly
- 12 Belt Conveyor Assembly
- 13 General Assembly
- 14 Powder Coating Plant / Curing Oven
- 15 Production Welding
- 16 Main Reception
- 17 Despatch
- 18 Ancillary Assembly
- 19 Bend Fabrication
- 20 Press Brake



### 21 Stourport Showroom and Demonstration Area



## LYE SITE

- 1 Stour Vale Road
- 2 Stores
- 3 Bearing Assembly
- 4 Press Department / Component Manufacture
- 5 Despatch
- 6 Flexible Conveyor Assembly



 conveyor solutions



**CONVEYOR UNITS**  
QUALITY • PERFORMANCE • RELIABILITY