



conveyor solutions



Quality • Performance • Reliability



1 Lineshaft Powered Roller Conveyor

The most versatile and economical powered conveyor available.

4

2 24V Motorised Roller Conveyor

'O' Ring & Poly V
A low maintenance, low energy conveyor due to minimum moving parts.

6

3 Pallet Handling Conveyor

Designed for flexibility and heavy duty usage up to 1500kg per pallet.

10

4 Belt Conveyor

For careful and extremely low noise conveying.

12

5 Gravity Conveyor

The most cost-effective and simplest conveying solution available.

14

6 Belt Under Roller Conveyor

Can achieve exceptionally high speeds and throughput rates.

16

7 Flexible Conveyor

For increased efficiency in loose loading and unloading of vehicles.

18

8 Post & Parcel Conveyor

Designed specifically for the high demands of the Post & Parcel handling market.

20

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

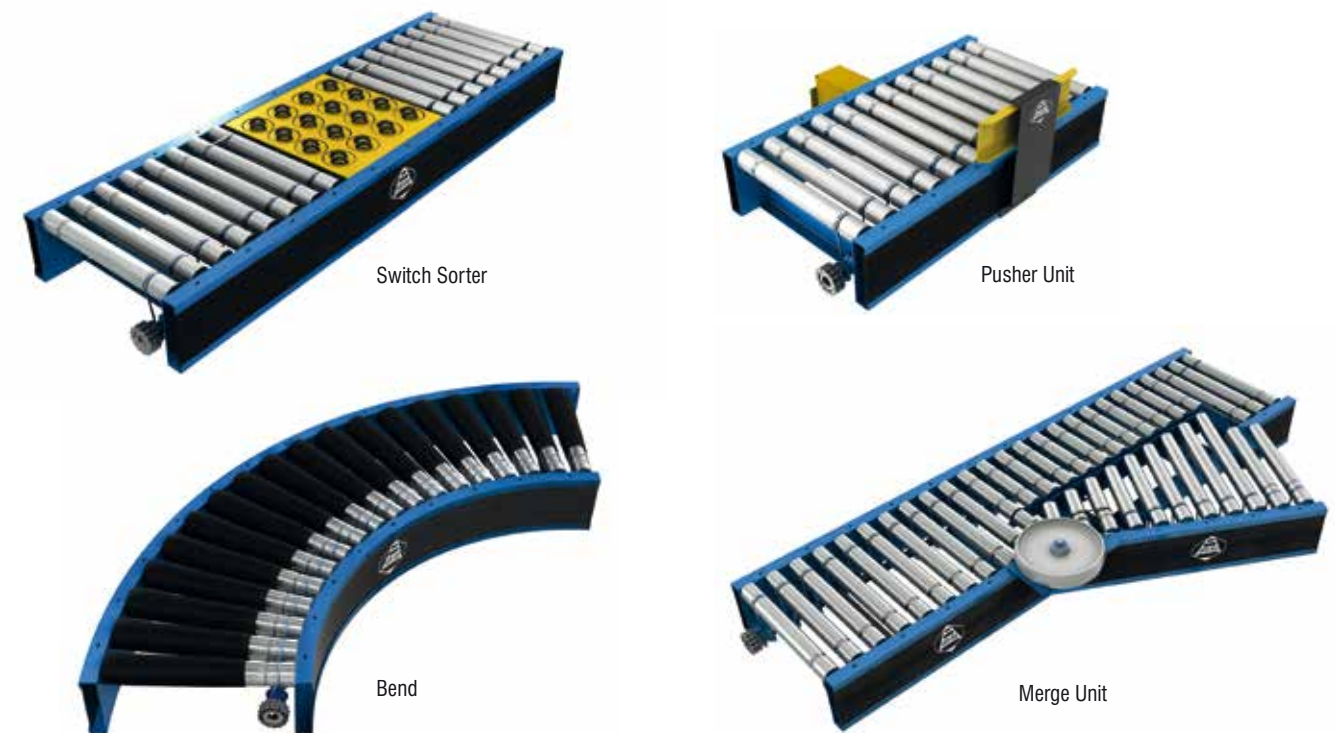
- UK's largest conveyor manufacturer.
- 150,000 sq. ft. manufacturing plant on a 7 acre site.
- In excess of half a million rollers manufactured every year.
- Over 15 km of conveyor produced each year.
- Over a third of conveyor orders shipped overseas.

1

Lineshaft Powered Roller Conveyor



AVAILABLE AS C SECTION OR Z SECTION CONVEYORS.



- The most versatile and economical conveyor available in material handling.
- The more complex the configuration of conveyors, the fewer drives are required compared to conventional equipment.
- One of the unique advantages of Lineshaft Powered Roller Conveyor is the number of ancillary modules which can be driven from one motor by means of couplings and universal joints.
- Easily reconfigured to meet current demands and future challenges.

Key Features	Benefits
Modular design.	Proven product, highly configurable, easy and reduced installation with low maintenance. Allows for a variety of arrangements to be made from standard components.
Ability for transportation and accumulation on the same conveyor system.	Versatility / adaptability in product handling. Optimised productivity.
Fewer motors required.	Reduced costs in installation, maintenance and power consumption.
Ability to include ancillary items.	Highly adaptable / versatile and cost-efficient.
Accumulation.	Reliable accumulation thus eliminating product damage. Easily reconfigurable if further ancillary items are added.
Quiet.	Reduced noise is more conducive to good working environment.
Heavy duty drive belts on bends, merges and mitres.	Increased driving capacity.

Ancillary modules include:

Bends
Switch Sorters
Lift Up Gates
Merges
Switch Units
Stops
Line Brakes
Transfers
Pusher Unit
90° Roller Junctions

Available in:

Powder coated as standard
Aluminium
Stainless steel

Specification

Model	Drive Capacity Per Roller	Roller Diameter	Roller Pitch	Standard Track Widths	Standard Speeds (metres per minute)
XU30 XU30S Light Duty	4kg (3mm dia. belt)	35mm	37.5mm	412mm 462mm 512mm 612mm 762mm	12 / 15 / 19 / 24 / 29
XU60 Med. Duty	8kg (4.75mm dia. belt)	50mm	75mm, 100mm or 150mm	412mm 462mm 512mm 612mm 762mm 912mm	12 / 15 / 19 / 24 / 29
XU90 Heavy Duty	12kg (5.3mm dia. belt)	50mm	75mm, 100mm or 150mm	As Above XU60	12 / 15 / 20 / 25 / 30

• Non standard widths available.



2

Motorised Roller Conveyor - 'O' Ring



AVAILABLE AS C SECTION OR Z SECTION CONVEYORS.

- A low maintenance conveyor, due to minimum moving parts.
- Offers extreme versatility in the transportation of various totes / cartons, whilst providing ultra-efficient accumulation.

Key Features	Benefits
Modular design.	Proven product, highly configurable, easy and reduced installation with low maintenance. Allows for a variety of arrangements to be made from standard components.
Low voltage 24V DC brushless motorised drive rollers.	Low energy consumption providing energy efficient conveying. Low noise.
Run on demand.	Energy conservation. Increases component life.
Zero line pressure accumulation.	No contact between loads. Eliminates product damage from pressured accumulation alternatives.
Plug and play options / photocells.	Pre-mounted and pre-wired electrical components, resulting in reduced electrical installation times and costs.
Complete or partial integration of accumulation modules.	Allows for transportation or accumulation as required.

Ancillary modules include:

Bends
Switch Sorters
Lift Up Gates
Mitre Sections
Pusher Unit
Belt Transfer

Available in:

Powder coated as standard
Aluminium
Stainless steel

Specification

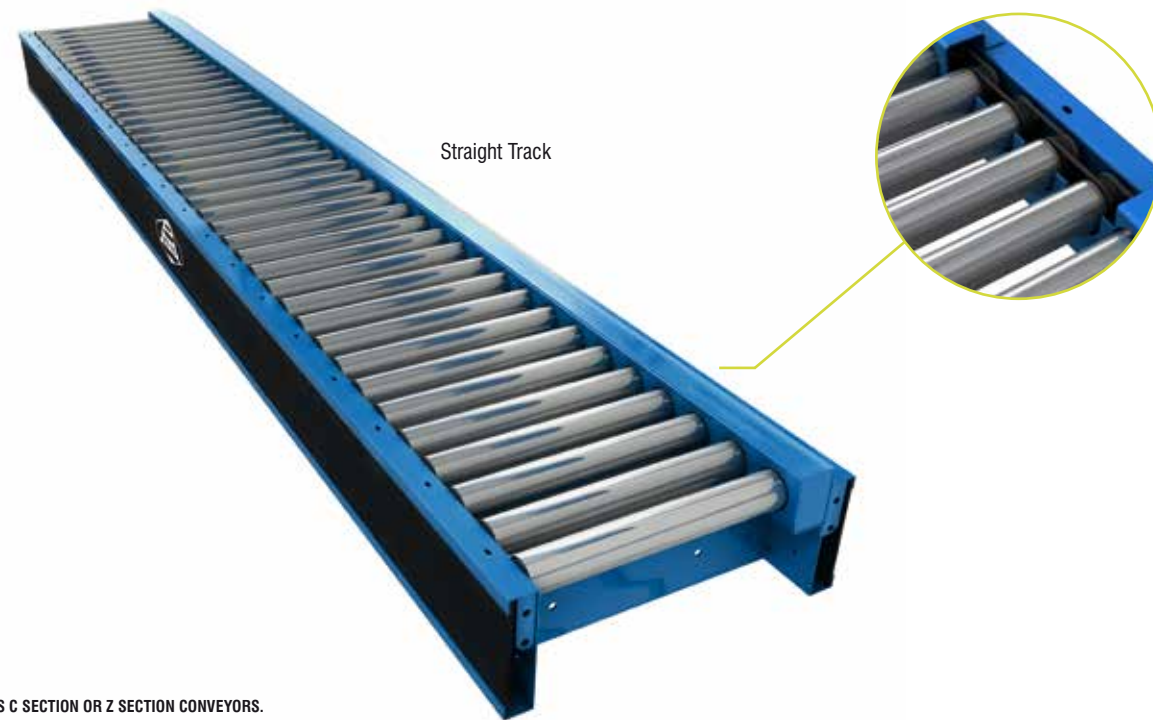
Drive Capacity Per Roller	Roller Diameter	Roller Pitch	Standard Track Widths	Standard Speeds (metres per minute)
5kg per roller	50mm	75mm, 100mm and 150mm	412mm 462mm 512mm 612mm 762mm 912mm	Up to 90

- For heavier loads and higher speeds, please contact our Sales Office.





Motorised Roller Conveyor - Poly V Drive



AVAILABLE AS C SECTION OR Z SECTION CONVEYORS.

- Increased torque transmission for heavier loads / more positive drive.
- Can be used for course zero line pressure, back filling accumulation or simple transport.

Key Features	Benefits
Modular design.	Truly independent beds. Easy to install and configure.
Multi ribbed Poly V belts.	2 or 3 ribbed belts available for optimum drive transmission.
Greater torque transmission.	This means heavier loads can be handled, or longer zones from fewer motorised rollers.
Fully enclosed belts.	Great operator safety and belt longevity as they are fully enclosed and protected from debris / contaminants.
Just one motor roller for very long runs.*	Improved economy for capital outlay and running costs.

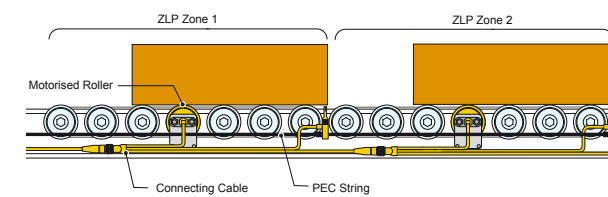
*Load/Speed Dependant

Specification			
Roller Diameter	Roller Pitch	Standard Track Widths (Conveyable Width = 50mm less)	Standard Speeds (metres per minute)
50mm	75mm, 100mm and 150mm	412mm, 462mm, 512mm, 612mm, 762mm, and 912mm	Up to 90

Available in:
Powder coated steel
Aluminium
Stainless steel

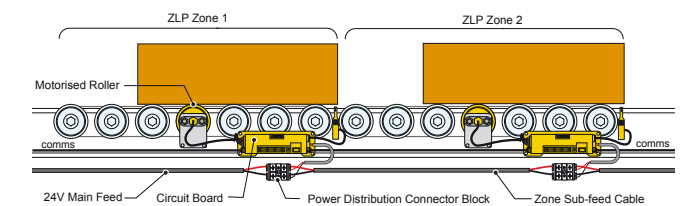
Transport Conveyor
Zero Line Pressure Conveyor

UNI-XU® MDR Conveyor



Option 1: 'Plug and Play' cabling for ZLP with minimal control interfacing

The simplest conveyor of its kind, driven by 24V DC motorised drive rollers with integral DC circuitry. Supplied completely wired with innovative cabling which contains all the interconnections necessary between the photocells, motorised drive rollers and power feeds, eliminating the need to connect and terminate lots of wires on site.

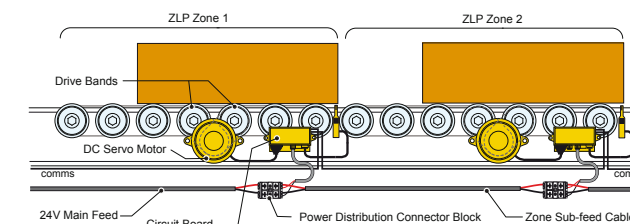


Option 2: Intelligent control for ZLP with PLC interfacing

This solution offers a greater degree of upper level control interface to a plc / master control with several additional control features:-

- Motorised drive roller speed.
- Load jam detection signal.
- Sensor status output to master control.
- Self correcting load spacing.
- Error signal to master control in case of overload activation.

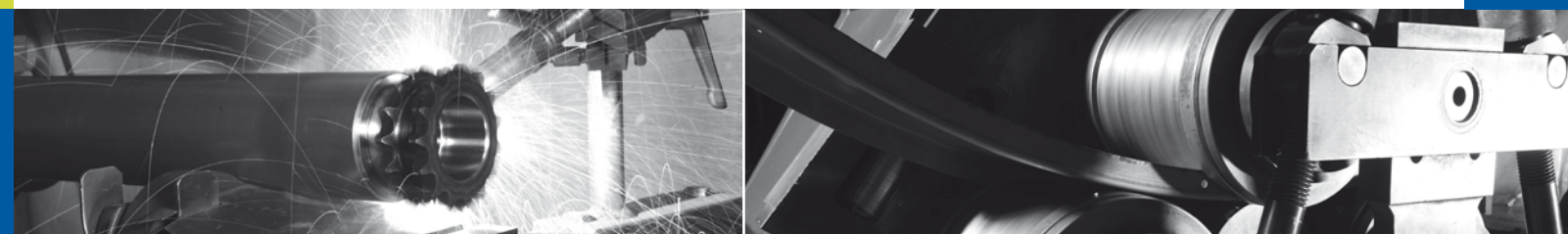
UNI-XU® UNIDrive Conveyor



This solution uses a compact gearless 24V DC brushless servo motor and offers further benefits beyond that of the UNI-XU® MDR Conveyor, making it suitable for higher specification applications due to the benefits of:-

- Higher torque and shock loading.
- Almost silent operation.
- Higher speed possibility as there are no fixed gear ratios.
- Availability - one drive unit for all widths and speeds creating commonality of spares.
- Space saving - narrow / bespoke conveyor sizes.
- Fewer motors required for transport conveyor.

FOR TRANSPORTATION CONFIGURATIONS AVAILABLE WITHOUT PHOTO CELLS, PLEASE CONSULT US.





Pallet Handling Conveyor



Centre Transfer

Chain Straights

Roller Straights

Roller Turntable

Chain Turntable

- Designed for flexibility and heavy duty usage - up to 1500kg per pallet.

Key Features	Benefits
Modular design.	Proven product, highly configurable, easy and reduced installation with low maintenance. Allows for a variety of arrangements to be made from standard components.
Up to 4500kg can be conveyed with only one drive.	Economical.
Robust construction with formed steel frame profiles. Closed channel design on both the roller and chain conveyors.	Strong and long lasting. Ability to fit facia or photo-cells anywhere along frame via clamp brackets.
Tangentially driven rollers.	Smooth and gentle transportation - minimum backlash, low maintenance.
Two and three strand chain conveyor beds.	Cost effectiveness for the weight being conveyed.
Transfer uses only triple strand chains.	Maximum resilience and reliability.
Chain tension accessed and adjusted quickly without the need for removing any guards.	Time-saving and easier maintenance.

Ancillary modules include:

- Roller Conveyor
- Chain Conveyor
- Transfers
- Turntables
- Motor Roller Options
- Side Load Sections
- Pallet Entry Guides
- Fork Lift Truck Stops
- Bridging Kits

Available in:

Powder coated as standard

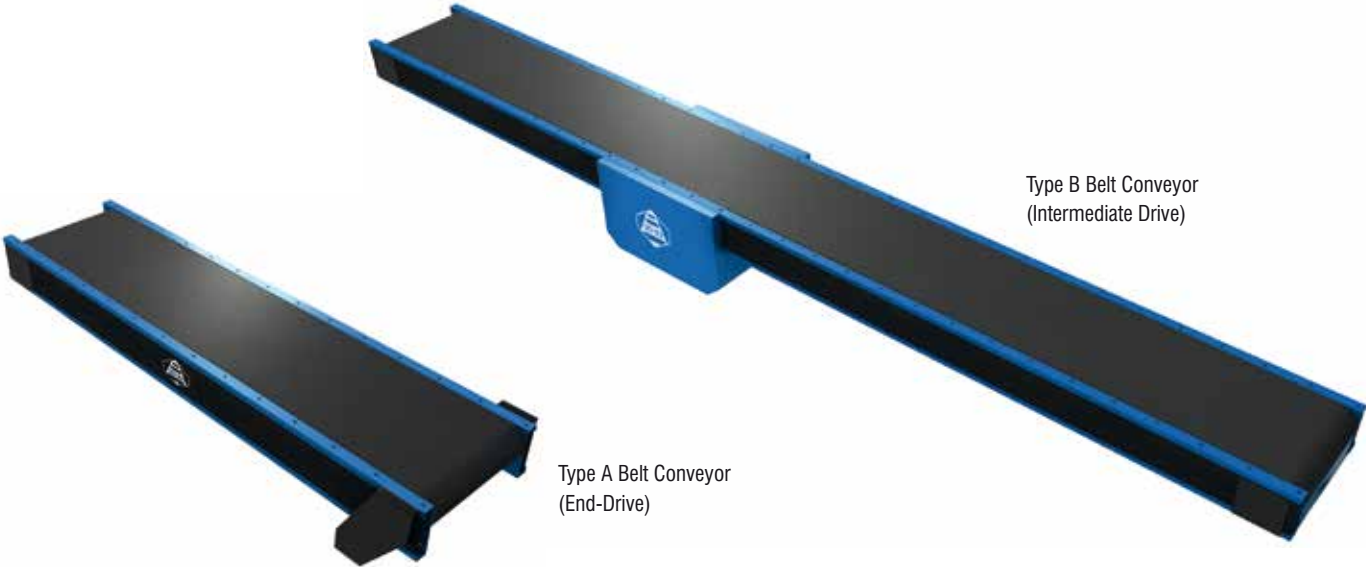
Specification

Load	Roller Diameter	Roller Pitch	Standard Track Widths	Standard Speeds (metres per minute)
800W x 1200L Europallet Max weight 1000kg	80mm	200mm	952mm	12 / 18
1000W x 1200L Chep Pallet Max weight 1500kg	80mm	150mm	1152mm	12 / 18



4

Belt Conveyor



AVAILABLE AS C SECTION OR Z SECTION CONVEYORS.

- For careful and extremely low noise conveying – horizontal or incline / decline.

Key Features	Benefits
Modular design.	Proven product, highly configurable, easy and reduced installation with low maintenance. Allows for a variety of arrangements to be made from standard components.
Fully reversible option (with intermediate drive).	Greater versatility with the intermediate drive.
Fewer number of components with reduced adjustments.	Low initial cost, reduced spare parts cost, ease of installation and maintenance.
Roller bed.	Lowers power requirement, conserves energy.
Slider bed.	Quiet operation, smooth transportation.

Ancillary modules include:
Mobile Units
Pop-Out Rollers
Change of Direction
Nose Over Units
End-Drive / Intermediate Drive
Comprehensive range of belt types

Available in:
Powder coated as standard
Aluminium
Stainless steel

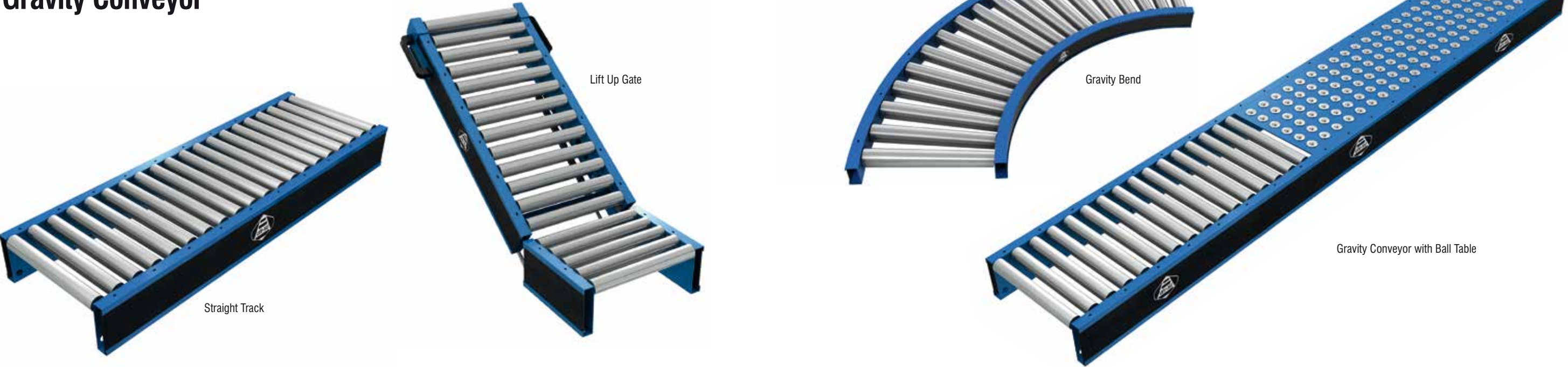
Specification		
Load	Belt Widths	Standard Speeds (metres per minute)
Up to 25kg per metre	350mm, 400mm, 450mm, 550mm, 700mm and 850mm	12 / 15 / 19 / 24 / 30

- For inside track width add 62mm to belt width.
- Other configurations available.



5

Gravity Conveyor



AVAILABLE AS C SECTION OR Z SECTION CONVEYORS.

• The most cost-effective conveying solution.

Key Features	Benefits
Modular design.	Proven product, highly configurable, easy and reduced installation with low maintenance. Allows for a variety of arrangements to be made from standard components.
Steel zinc plated rollers.	Surface protection.
Ball table.	Allows for product rotation.
Frames are multi-punched.	Allows for reconfigurable roller pitch for different sized products.

Ancillary modules include:
Lift Up Gates
Skatewheel Bends
Ball Tables
Mobile Units
Turntables

Available in:
Powder coated as standard
Aluminium
Stainless steel

Specification					
Model	Static Load Per Roller	Roller Diameter	Roller Pitch	Inside Track Widths	Height from bottom of frame to top of roller
ZTL PC1	20kg	35mm	37.5mm, 75mm, 112.5mm and 150mm	312 – 762mm (in 50mm increments)	'Z' 69mm
ZTL PF1	30kg	50mm	75mm, 112.5mm and 150mm	312 – 762mm (in 50mm increments)	'Z' 76mm
ZTM PN1	45kg	50mm	60mm, 90mm, 120mm and 150mm	312 – 1012mm (in 50mm increments)	'Z' 83mm
CTH NE4	100kg	50mm	75mm, 100mm and 150mm	312 – 1012mm (in 50mm increments)	'C' 106mm
CTH M60	150kg	60mm	75mm, 100mm and 150mm	312 – 1012mm (in 50mm increments)	'C' 111mm
XU60	30kg	50mm	75mm, 100mm and 150mm	312 – 1012mm (in 50mm increments)	'Z' 183mm





Belt Under Roller Conveyor



Straight Track



Belt Transfer



Switch Sorter

AVAILABLE AS C SECTION OR Z SECTION CONVEYORS.

- Versatility of transporting or accumulating with the option to upgrade from one to the other.
- Can achieve exceptionally high throughput rates.

Key Features	Benefits
Modular design.	Proven product, highly configurable, easy and reduced installation with low maintenance. Allows for a variety of arrangements to be made from standard components.
Integral photocells.	Quicker installation and wiring. Reduced costs.
Ability to transport or accumulate with the option to upgrade from one to the other.	Increased capacity of your conveyor system.
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 good working environment.
Multi-functional.	Conveying or accumulating.

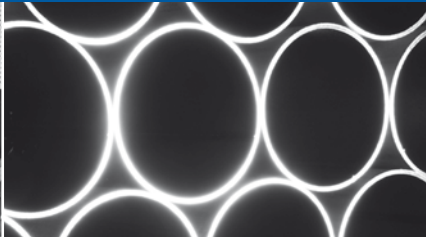
Ancillary modules include:

- Stops
- Line Brakes
- Switch Sorter
- Belt Transfer

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	12 / 15 / 18 / 25 / 29 / 43 / 49 / 55 / 69 / 86 / 107
			462mm	
			512mm	
			612mm	
			762mm	
			912mm	



7

Flexible Conveyor



Flexible - Expanded / Compacted



Powered Roller



Gravity Roller



Gravity Skatewheel

- Powered and Gravity Options.
- For increased efficiency in loose loading and unloading of vehicles.

Key Features - Powered	Key Features - Gravity	Benefits
AC motor.	-	Low maintenance – no brush wear.
Reinforced, ribbed zinc plated steel side plates.	Reinforced, ribbed zinc plated steel side plates.	Additional strength and total stability.
Structural support across width.	Structural support across width.	Withstand rigorous demands.
Heavy duty square tubing legs.	Heavy duty square tubing legs.	
Fully bolted design without rivets.	Fully bolted design without rivets.	
Roller retaining tag washers.	Roller retaining tag washers.	
Available up to 25m / compacts to a 1/3 of its size when not in use.	Available up to 25m / compacts to a 1/3 of its size when not in use.	Easier to store, takes up minimum space.
Braked, swivel castors.	Braked, swivel castors.	Flexible and easily manoeuvrable.
Flat form cable.	-	Maintains correct cable routing.
Start / Stop buttons at both ends.	-	Safety.
Self tracking – cartons follow twist of conveyor.	Self tracking – cartons follow twist of conveyor.	No need for engineered curves.
Adjustable height.	Adjustable height.	Versatility for different applications.
Smart optics / package stops.	Package stops.	Prevents product damage.

Ancillary modules include:

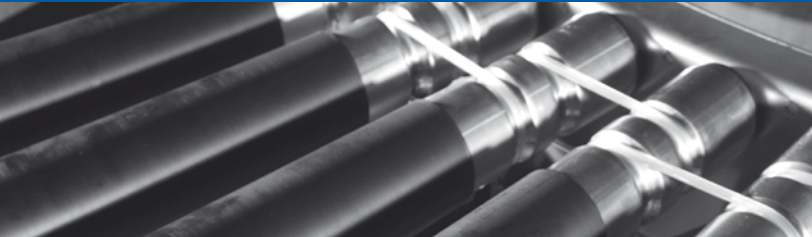
Heavy Duty Impact Carts
Smart Optics
Zero Line Pressure
Product Indexing
Roller Connecting Brackets
Drop Down Package Stops
Larger Diameter Castors

(for easier rolling over rougher uneven surfaces).

Specification

Type	Load	Conveyor Widths	Roller Diameter	Standard Speeds (metres per minute)
Powered Roller	150kg per linear metre*	450mm, 600mm, 750mm or 900mm	40mm	10-40 variable
Gravity Roller	250kg per linear metre*	450mm, 600mm, 750mm or 900mm	40mm	n/a
Gravity Skatewheel	300kg per linear metre*	450mm, 600mm, 750mm or 900mm	Skatewheel 49mm	n/a
LITE-™	80Kg per linear metre*	300mm, 400mm, 500mm, or 600mm	Skatewheel 48mm	n/a

* Based on level working height.



8

Post & Parcel Conveyor



Type B Belt Conveyor

Type C Belt Conveyor



Mobile Lineshaft on Heavy Duty Frames

Switch Sorter

- Designed specifically for the high demands of the Post and Parcel Handling market.
- Exceptionally robust.
- Range includes Belt, Sorters and Lineshaft on Heavy Duty Mobile Frames.

Key Post and Parcel Belt Conveyor Features	Benefits
Modular design.	Truly independent beds. Easy to install and configure.
3mm thick steel skid decks.	Capable of handling loads up to 80Kg/m
Direct drive from motors up to 3kW in power.	Ease of motor change and capable of long runs / heavy loads.
100 mm dia End Terminal Rollers.	High strength while handling small loads.
Fixed - non rotating - bosses on End Terminals.	Improved operator safety.

Key Post and Parcel Switch Sorter Features	Benefits
Modular design.	Truly independent beds. Easy to install and configure.
Sort up to 4200 parcels per hour.	More parcel handling capacity.
Wheel pattern split into 6 independent zones.	Multi-function capability of divert, merge, centralise, pre-sort and improves sort rate.
400 V a.c drives.	Strong positive drive and when used with inverters gives very accurate speed consistency - essential when tracking varying load weights down a sorter.

Ancillary modules include:

- Post & Parcel Belt Conveyor
- Post & Parcel Switch Sorter
- Post & Parcel Heavy Duty Gravity Conveyor
- Post & Parcel Mitres
- Post & Parcel Lineshaft on mobile base (*Straights and Curves*).

Post and Parcel Belt Specification		
Load	Belt Widths	Standard Speeds (metres per minute)
Up to 80kg/m	850 mm	Up to 90

Post and Parcel Switch Sorter Specification			
Load	Roller Pitch	Standard Width	Standard Speeds (metres per minute)
Up to 80kg/m	60 mm	912 mm	Up to 110

Post and Parcel Mobile Lineshaft Specification				
Drive Capacity per Roller	Roller Pitch	Roller Specification	Standard Width	Standard Speeds (metres per minute)
12kg	60 mm, 75 mm and 100 mm	50 Dia x 2 thick. Precision bearings. 11mm hex spindle.	912 mm	12 / 15 / 20 / 25 / 30



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: -

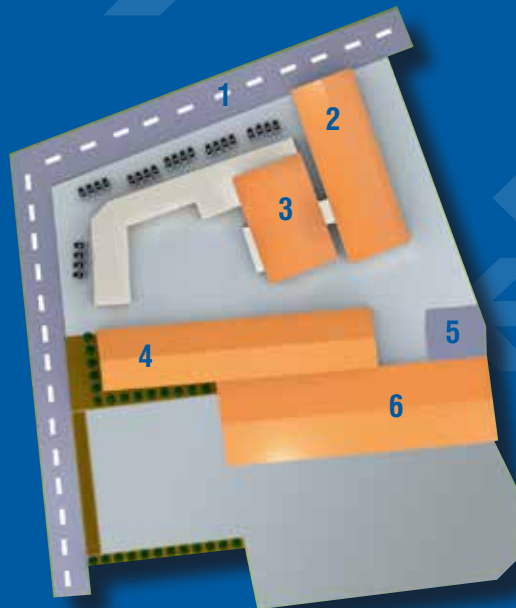
- **Competitive prices.**
- **Fast turnaround.**
- **Extensive product range.**
- **Excellent customer service.**



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