conveyor solutions

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.

- 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.

Facts

1. Lineshaft Powered Roller Conveyor
   The most versatile and economical powered conveyor available.

2. 24V Motorised Roller Conveyor
   "O" Ring & Poly V
   A low maintenance, low energy conveyor due to minimum moving parts.

3. Pallet Handling Conveyor
   Designed for flexibility and heavy duty usage up to 1500kg per pallet.

4. Belt Conveyor
   For careful and extremely low noise conveying.

5. Gravity Conveyor
   The most cost-effective and simplest conveying solution available.

6. Belt Under Roller Conveyor
   Can achieve exceptionally high speeds and throughput rates.

7. Flexible Conveyor
   For increased efficiency in loose loading and unloading of vehicles.

8. Post & Parcel Conveyor
   Designed specifically for the high demands of the Post & Parcel handling market.
**Lineshaft Powered Roller Conveyor**

- Modular design.
- Ability for transportation and accumulation on the same conveyor system.
- Fewer motors required.
- Ability to include ancillary items.
- Quiet.
- Heavy duty drive belts on bends, merges and mitres.

### Key Features

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modular design</td>
<td>Proven product, highly configurable, easy and reduced installation with low maintenance.</td>
</tr>
<tr>
<td>Ability for transportation and accumulation on the same conveyor system.</td>
<td>Versatility/adaptability in product handling, optimise productivity.</td>
</tr>
<tr>
<td>Fewer motors required.</td>
<td>Reduced costs in installation, maintenance and power consumption.</td>
</tr>
<tr>
<td>Ability to include ancillary items.</td>
<td>Highly adaptable/versatile and cost-efficient.</td>
</tr>
<tr>
<td>Quiet.</td>
<td>Reduced noise is more conducive to good working environment.</td>
</tr>
<tr>
<td>Heavy duty drive belts on bends, merges and mitres.</td>
<td>Increased driving capacity.</td>
</tr>
</tbody>
</table>

### Ancillary modules include:

- **Bends**
- **Switch Sorters**
- **Lift Up Gates**
- **Merges**
- **Switch Units**
- **Slopes**
- **Line Brakes**
- **Transfers**
- **Pusher Unit**
- **90 Roller Junctions**

### Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>Drive Capacity Per Roller</th>
<th>Roller Diameter</th>
<th>Roller Pitch</th>
<th>Standard Track Widths</th>
<th>Standard Speeds (metres per minute)</th>
</tr>
</thead>
<tbody>
<tr>
<td>XU30</td>
<td>4kg (3mm dia. belt)</td>
<td>35mm</td>
<td>37.5mm</td>
<td>412mm</td>
<td>12 / 15 / 19 / 24 / 29</td>
</tr>
<tr>
<td>XU30S</td>
<td>462mm</td>
<td></td>
<td></td>
<td>462mm</td>
<td></td>
</tr>
<tr>
<td>Light Duty</td>
<td></td>
<td></td>
<td></td>
<td>612mm</td>
<td></td>
</tr>
<tr>
<td>Medium Duty</td>
<td></td>
<td></td>
<td></td>
<td>762mm</td>
<td></td>
</tr>
<tr>
<td>XU60</td>
<td>8kg (4.75mm dia. belt)</td>
<td>50mm</td>
<td>75mm, 100mm or 150mm</td>
<td>412mm</td>
<td>12 / 15 / 19 / 24 / 29</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>462mm, 512mm, 612mm,</td>
<td></td>
</tr>
<tr>
<td>Medium Duty</td>
<td></td>
<td></td>
<td></td>
<td>762mm</td>
<td></td>
</tr>
<tr>
<td>XU90</td>
<td>12kg (5.3mm dia. belt)</td>
<td>50mm</td>
<td>75mm, 100mm or 150mm</td>
<td>412mm</td>
<td>12 / 15 / 20 / 24 / 29</td>
</tr>
<tr>
<td>Heavy Duty</td>
<td></td>
<td></td>
<td></td>
<td>462mm, 512mm, 612mm,</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>762mm</td>
<td></td>
</tr>
</tbody>
</table>

- Available in: Powder coated as standard, aluminium, stainless steel.

### Available

- C Section or Z Section Conveyors.

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*Some standard widths available.*
Ancillary modules include:
- Bends
- Switch Sorters
- Lift Up Gates
- Mitre Sections
- Pusher Unit
- Belt Transfer

Available in:
- Powder coated as standard
- Aluminium
- Stainless steel

Key Features
- Modular design.
- Low voltage 24V DC brushless motorised drive rollers.
- Run on demand.
- Zero line pressure accumulation.
- Plug and play options / photocells.
- Complete or partial integration of accumulation modules.

Benefits
- Proven product, highly configurable, easy and reduced installation with low maintenance.
- Allows for a variety of arrangements to be made from standard components.
- Low energy consumption providing energy efficient conveying.
- No contact between loads.
- Eliminates product damage from pressured accumulation alternatives.
- Pre-mounted and pre-wired electrical components, resulting in reduced electrical installation times and costs.

Specifications

<table>
<thead>
<tr>
<th>Drive Capacity Per Roller</th>
<th>Roller Diameter</th>
<th>Roller Pitch</th>
<th>Standard Track Widths</th>
<th>Standard Speeds (metres per minute)</th>
</tr>
</thead>
<tbody>
<tr>
<td>kg per roller</td>
<td>50mm</td>
<td>75mm, 100mm, 150mm</td>
<td>412mm 462mm 512mm 612mm 762mm 912mm</td>
<td>Up to 90</td>
</tr>
</tbody>
</table>

For heavier loads and higher speeds, please contact our Sales Office.
Motorised Roller Conveyor - Poly V Drive

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

**Benefits**
- Truly independent beds.
- Easy to install and configure.
- 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.*

*Load/Speed Dependant

**Specification**

<table>
<thead>
<tr>
<th>Roller Diameter</th>
<th>Roller Pitch</th>
<th>Standard Track Widths (Conveyable Width = 50mm less)</th>
<th>Standard Speeds (metres per minute)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50mm</td>
<td>75mm, 100mm and 150mm</td>
<td>412mm, 462mm, 512mm, 612mm, 762mm, and 912mm</td>
<td>Up to 90</td>
</tr>
</tbody>
</table>

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**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.

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**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.

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For transportation configurations available without photo cells, please consult us.
Pallet Handling Conveyor

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

Key Features

| 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. |
| Robust construction with formed steel frame profiles. | Economical. |
| Closed channel design on both the roller and chain conveyors. | Strong and long lasting. |
| Tangentially driven rollers. | Ability to fit facia or photo-cells anywhere along frames via clamping brackets. |
| Two and three strand chain conveyor beds. | Smooth and gentle transportation - minimum backlash, low maintenance. |
| Roller Straight Chain Straights | Cost effectiveness for the weight being conveyed. |
| Roller Turntable Chain Turntable | Maximum resilience and reliability. |

Chain tension accessed and adjusted quickly without the need for removing any guards. | Time-saving and easier maintenance. |

Benefits

- Designed for flexibility and heavy duty usage - up to 1500kg per pallet.
- Proven product, highly configurable, easy and reduced installation with low maintenance. Allows for a variety of arrangements to be made from standard components.
- Economical.
- Cost effectiveness for the weight being conveyed.
- Maximum resilience and reliability.
- Smooth and gentle transportation - minimum backlash, low maintenance.

Specifications

<table>
<thead>
<tr>
<th>Load</th>
<th>Roller Diameter</th>
<th>Roller Pitch</th>
<th>Standard Track Widths</th>
<th>Standard Speeds (metres per minute)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6000 x 1200L Euro pallet</td>
<td>80mm</td>
<td>200mm</td>
<td>952mm</td>
<td>12 / 18</td>
</tr>
<tr>
<td>6000 x 1200L Euro pallet</td>
<td>80mm</td>
<td>150mm</td>
<td>1152mm</td>
<td>12 / 18</td>
</tr>
</tbody>
</table>

Available in:
- Powder coated as standard

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

Key Features
- Modular design
- Fully reversible option (with intermediate drive)
- Fewer number of components with reduced adjustments
- Roller bed
- Slider bed

Benefits
- Proven product, highly configurable, easy and reduced installation with low maintenance
- Allows for a variety of arrangements to be made from standard components
- Greater versatility with the intermediate drive
- Low initial cost, reduced spare parts cost, ease of installation and maintenance
- Lowers power requirement, conserves energy
- Quiet operation, smooth transportation

Specification

<table>
<thead>
<tr>
<th>Load</th>
<th>Belt Widths</th>
<th>Standard Speeds (metres per minute)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 25kg</td>
<td>350mm, 400mm,</td>
<td>12 / 15 / 19 / 24 / 30</td>
</tr>
<tr>
<td>per metre</td>
<td>450mm, 550mm,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>700mm and 850mm</td>
<td></td>
</tr>
</tbody>
</table>

For careful and extremely low noise conveying – horizontal or incline / decline.
Ancillary modules include:

- Lift Up Gates
- Skatewheel Bends
- Ball Tables
- Mobile Units
- Turntables

Available in:

- Powder coated as standard
- Aluminium
- Stainless steel

The most cost-effective conveying solution.

Key Features

- 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.

Benefits

- Proven product, highly configurable, easy and reduced installation with low maintenance.
- Allows for a variety of arrangements to be made from standard components.
- Surface protection.
- Allows for product rotation.
- Allows for reconfigurable roller pitch for different sized products.

Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>Static Load Per Roller</th>
<th>Roller Diameter</th>
<th>Roller Pitch</th>
<th>Inside Track Widths</th>
<th>Height from bottom of frame to top of roller</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZTL PC1</td>
<td>20kg</td>
<td>35mm</td>
<td>37.5mm, 75mm, 112.5mm and 150mm</td>
<td>312 – 762mm (in 50mm increments)</td>
<td>2’ 60mm</td>
</tr>
<tr>
<td>ZTL PF1</td>
<td>30kg</td>
<td>50mm</td>
<td>75mm, 112.5mm and 150mm</td>
<td>312 – 762mm (in 50mm increments)</td>
<td>2’ 70mm</td>
</tr>
<tr>
<td>CTM PN1</td>
<td>45kg</td>
<td>50mm</td>
<td>60mm, 90mm, 120mm and 150mm</td>
<td>312 – 1012mm (in 50mm increments)</td>
<td>2’ 83mm</td>
</tr>
<tr>
<td>CTH NE4</td>
<td>100kg</td>
<td>50mm</td>
<td>75mm, 100mm and 150mm</td>
<td>312 – 1012mm (in 50mm increments)</td>
<td>C’ 106mm</td>
</tr>
<tr>
<td>CTH M60</td>
<td>150kg</td>
<td>60mm</td>
<td>75mm, 100mm and 150mm</td>
<td>312 – 1012mm (in 50mm increments)</td>
<td>C’ 111mm</td>
</tr>
<tr>
<td>XU60</td>
<td>30kg</td>
<td>50mm</td>
<td>75mm, 100mm and 150mm</td>
<td>312 – 1012mm (in 50mm increments)</td>
<td>2’ 103mm</td>
</tr>
</tbody>
</table>
**Belt Under Roller Conveyor**

Ancillary modules include:
- Stops
- Line Brakes
- Switch Sorter
- Belt Transfer

Available in:
- Powder coated as standard
- Aluminium
- Stainless steel

Key Features
- Modular design
- Integral photocells
- Ability to transport or accumulate with the option to upgrade from one to the other
- Buffering of totes and cartons WITH contact between products, but WITHOUT line pressure
- High speed
- Quiet
- Multi-functional

Benefits
- Proven product, highly configurable, easy and reduced installation with low maintenance. Allows for a variety of arrangements to be made from standard components.
- Quicker installation and wiring. Reduced costs.
- Increased capacity of your conveyor system.
- Offers maximum system throughput rates.
- Faster, higher throughputs.
- Reduced noise is more conducive to good working environment.
- Conveying or accumulating

### Drive Capacity Per Roller

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Roller Diameter</th>
<th>Roller Pitch</th>
<th>Standard Track Widths</th>
<th>Standard Speeds (metres per minute)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.5kg</td>
<td>50mm</td>
<td>75mm, 100mm, 150mm</td>
<td>612mm, 662mm, 812mm, 912mm</td>
<td>12, 15, 18, 25, 30, 35, 40, 50, 60, 80, 107</td>
</tr>
</tbody>
</table>

### Specification

AVAILABLE AS C SECTION OR Z SECTION CONVEYORS.
Flexible Conveyor

- AC motor.
- Reinforced, ribbed zinc plated steel side plates.
- Structural support across width.
- Heavy duty square tubing legs.
- Fully bolted design without nuts.
- Roller retaining tag washers.

**Key Features - Gravity**
- Reinforced, ribbed zinc plated steel side plates.
- Structural support across width.
- Heavy duty square tubing legs.
- Fully bolted design without nuts.
- Roller retaining tag washers.

**Key Features - Powered**
- Available up to 25m / compacts to a 1/3 of its size when not in use.
- Braked, swivel castors.
- Flat form cable.
- Self tracking – cartons follow twist of conveyor.
- Adjustable height.
- Smart optics / package stops.

**Benefits**
- Low maintenance – no brush wear.
- Additional strength and total stability.
- Withstand rigorous demands.
- Easier to store, takes up minimum space.
- Flexible and easily manoeuvrable.
- Maintains correct cable routing.

**Specification**

<table>
<thead>
<tr>
<th>Type</th>
<th>Load</th>
<th>Conveyor Widths</th>
<th>Roller Diameter</th>
<th>Standard Speeds (metres per minute)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powered Roller</td>
<td>150kg per linear metre*</td>
<td>450mm, 600mm, 750mm or 900mm</td>
<td>40mm</td>
<td>10–40 variable</td>
</tr>
<tr>
<td>Gravity Roller</td>
<td>250kg per linear metre*</td>
<td>450mm, 600mm, 750mm or 900mm</td>
<td>40mm</td>
<td>0–2</td>
</tr>
<tr>
<td>Gravity Skatewheel</td>
<td>300kg per linear metre*</td>
<td>450mm, 600mm, 750mm or 900mm</td>
<td>Skatewheel</td>
<td>0–2</td>
</tr>
<tr>
<td>LITE-™</td>
<td>80Kg per linear metre*</td>
<td>300mm, 400mm, 500mm, or 600mm</td>
<td>Skatewheel</td>
<td>0–2</td>
</tr>
</tbody>
</table>

* Based on level working height.

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 rough/uneven surfaces)

- Powered and Gravity Options.
- For increased efficiency in loose loading and unloading of vehicles.
Post & Parcel Conveyor

Key Post and Parcel Belt Conveyor Features

- Modular design: Truly independent beds. Easy to install and configure.
- Drive: Up to 3kW in power. 400 V a.c. drives. 100 mm dia. End Terminal Rollers. 12kg per Roller.
- 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.

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).

Benefits
- 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.
- Modular design.
- 3mm thick steel skid decks.
- Direct drive from motors up to 3kW in power.
- Drive: Up to 3kW in power. 400 V a.c. drives. 100 mm dia. End Terminal Rollers. 12kg per Roller.
- 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).

Key Post and Parcel Switch Sorter Features

- 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.

Benefits
- Truly independent beds. Easy to install and configure.
- More parcel handling capacity.
- Multi-function capability of divert, merge, centralise, pre-sort and improves sort rate.
- Strong positive drive and when used with inverters gives very accurate speed consistency - essential when tracking varying load weights down a sorter.

Post and Parcel Belt Specification

<table>
<thead>
<tr>
<th>Load</th>
<th>Belt Widths</th>
<th>Standard Speeds (metres per minute)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 80kg/m</td>
<td>850 mm</td>
<td>Up to 90</td>
</tr>
</tbody>
</table>

Post and Parcel Switch Sorter Specification

<table>
<thead>
<tr>
<th>Load</th>
<th>Roller Pitch</th>
<th>Standard Width</th>
<th>Standard Speeds (metres per minute)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 80kg/m</td>
<td>60 mm</td>
<td>912 mm</td>
<td>Up to 110</td>
</tr>
</tbody>
</table>

Post and Parcel Mobile Lineshaft Specification

<table>
<thead>
<tr>
<th>Drive Capacity per Roller</th>
<th>Roller Pitch</th>
<th>Roller Specification</th>
<th>Standard Width</th>
<th>Standard Speeds (metres per minute)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12kg</td>
<td>60 mm, 75 mm and 100 mm</td>
<td>50 Dia x 2 thick, Precision bearings, 11mm Hex spindle</td>
<td>912 mm</td>
<td>12 / 15 / 20 / 25 / 30</td>
</tr>
</tbody>
</table>
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, optimising 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 200 km of 50mm diameter steel tubing every year. This means that not only does it allow us to constantly meet our 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.