



Aluminium Roller Conveyors



The new Uni-XU aluminium roller conveyor has a modern and aesthetically pleasing design which can be a great advantage where your image is important. It is extraordinarily versatile, almost any configuration is possible using the comprehensive range of modules. It has a high strength-to-weight ratio and is virtually maintenance free, important if used in inaccessible areas. All aluminium components are anodised providing exceptional corrosion resistance to the ravages of air, temperature, moisture and chemical attack.

The following pages show only a small selection of the large range of modules available. For more information please contact our sales department on 01252 369800.

MONK Conveyors Limited

Unit 9, The Christy Estate, Ivy Road, Aldershot, Hampshire GU12 4TX
Tel: +44(0)1252 369800 Fax: +44(0)1252 369801 Email: sales@monk-conveyors.co.uk
www.monk-conveyors.com



Aluminium Roller Conveyors

Lineshaft Powered Roller Conveyor



- 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 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 and future demands.
- Standard widths available: 412mm, 462mm, 512mm, 612mm, 762mm and 912mm.

Bend

- Available for XU60 and XU90.
- All bends have true taper plastic sleeved rollers to ensure correct load orientation.
- 75mm pitch on inner rail.
- 50mm diameter zinc plated rollers are double grooved at the drive belt positions.
- Heavy duty XU90 belts are used throughout.
- Can be supplied fitted with geared motors (60° and 90° only).
- For smaller products intermediate rollers are available
- The lineshafts are inter-connected by constant velocity (needle roller bearings) universal joints, housed within a rubber gaiter.
- All bends have an inside radius of 859mm.
- Angles available 30°, 45°, 60° and 90°.





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Chain Transfer



- Available for XU60 and XU90.
- The minimum chain centres are 150mm for XU60 and XU90.
- Maximum of 15 operations per minute.
- Maximum lift twin chain 50Kgs. Maximum lift triple chain 100Kgs.
- Drive to the transfer chains is via sprockets on the main lineshaft.
- The rise and fall of chains is actuated by double acting pneumatic cylinder(s).
- Available in twin or triple chain transfers with either steel or nylon chain.
- One cylinder is required for twin chain transfers.
- Two cylinders are required for triple chain transfer.
- Total air consumption for double stroke 0.4 litres per cylinder.

Belt Transfer



- Available for XU60 and XU90.
- The minimum belt centres are 150mm.
- Maximum of 25 operations per minute.
- Maximum lift 70Kgs.
- Independently driven from a geared motor unit via pulleys on a separate shaft.
- The rise and fall of chains is actuated by a double acting pneumatic cylinder(s).
- Available in twin or triple belt transfers.
- Polyurethane truly endless belt with co-extruded backing.
- Total air consumption per operation 1.04 litres per cylinder.
- Standard widths available: 412mm, 462mm, 512mm, 612mm, 762mm and 912mm.



Aluminium Roller Conveyors

Switch Sorter / Diverter



- Available at 45° switching angle.
- Variable speed.
- Incorporates double acting pneumatic cylinders.
- Can be supplied right handed, left handed or bi-directional.
- Minimum product size 200mm x 200mm.
- The sorter wheels are independently driven from a 0.37 kW SEW motor
- Normally used in conjunction with a 45° mitre section, although other options are available.
- Maximum operations 3000 products per hour.
- Standard widths available: 462mm, 612mm, 762mm and 912mm.

Vertical Blade Stop



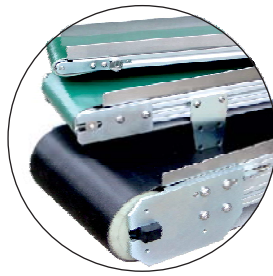
- Available for XU60 and XU90.
- This stop can be incorporated into straight track positioned in between roller pitches for XU60/XU90.
- Speed up spools are supplied at the stop position to increase gaps between loads. Speed up jump chain assemblies can also be used for this application.
- Incorporates double acting pneumatic air cylinder.
- Air consumption for each cylinder operation 0.70 litres.
- Standard widths available: 412mm, 462mm, 512mm, 612mm, 762mm and 912mm. Other widths available on request.



Items in our range



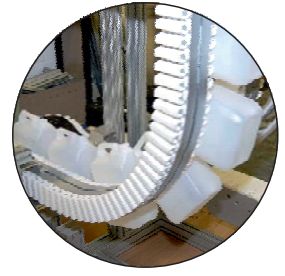
FlexChain Conveyors



Flat Belt Conveyors



Mat Top Bend



Grip Conveyors



Heavy Duty Trough Conveyors



Plastic Container Handling System



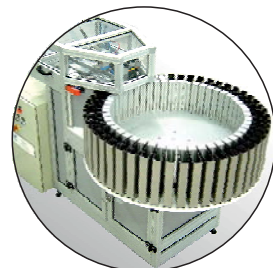
Special Roller Conveyor



Rotating Storage Tables



Diverter Units



Indexing Buffer Stores



Elevators - Plastic or Stainless Steel



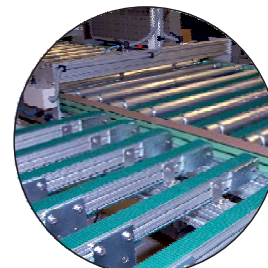
Luggage Handling



Multi-Lane Flat Belts



Ready Made Meal Conveyor Line



Sheet Panel Transfer Unit



Fruit Packing Line

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Conveyors & Handling Equipment Examples



FLEX-CHAIN PLASTIC SLAT CONVEYORS. Ideal for efficiently conveying products between processes and machines. Very versatile, with large or small radius horizontal and vertical corners. Pinch grip system for vertical conveying. Also available in food quality stainless steel.



ROLLER & BELT CONVEYOR INSTALLATION. Automatic handling of boxes containing statements for MBNA. This installation uses belt conveyors, roller conveyors and vertical lifters together with gates, escapements and sensors. Controlled by a PLC with a touch screen for operator input.



PALLET CONVEYORS. Heavy duty pallet roller conveyors for 800, 1000 & 1200mm wide pallets with loads up to 1500kg. 63mm diameter chain driven rollers. Supplied in standard lengths of 1588mm with individual drives for zero line pressure mode.



FLAT BELT CONVEYORS. Used here for unloading finished components from a machining center. Drip trays are used to collect the cutting oil and return it to the system.



ROLLER CONVEYORS. Rugged roller conveyors available in plain gravity or line-shaft driven with the option of plastic or steel rollers. Many accessories such as stops, gates, diverters, mergers, transfer units. Also available in stainless steel.



INTERFLOOR CONVEYORS. Very efficient method of transporting goods up to and down from a mezzanine floor. Uses a high grip belt and a powerful drive.

For all your conveying requirements consult **MONK Conveyors Ltd**



Conveyors & Handling Equipment Examples



LARGE INSTALLATIONS. Spectacle lens handling plant using our Flex Chain conveyors, flat belt conveyors and vertical lifters. The system handles plastic trays which contain two lenses. A sophisticated but operator friendly control system ensures that trays take the correct path through the plant.



VERTICAL LIFTS. Available as a single vertical lift as shown above or as a continuous unit. Used for transferring to and from mezzanine floors or high level conveyors.



FLEX-CHAIN BUFFER STORE. Typical system handling Horlicks containers in the filling area. This system gives a 20 minute store by the side of the main production line.



FLEX-CHAIN CONVEYOR SYSTEM. Transporting trays with an order of two spectacle lenses from five RAX Lens Stores to the dispatch department.



ROTATING STORAGE TABLES. Used for creating a buffer store at the end of a line, products are fed onto the table as it slowly rotates. An operator will then visit the table and pack or transfer the product back into the line.



PACKING LINES. Chocolate bar packing line using a combination of Flex-Chain and belt conveyors. The line could be configured in five different layouts, allowing a number of different products to be run using one set of conveyors.

For all your conveying requirements consult **MONK Conveyors Ltd**



The Conveyor Company



Flex-Chain



Belt



Roller



Mat-top

Design + Quality + Reliability = Efficiency

Choose the best conveyor for your project from our large range for a total solution

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