

Conveyor Solutions



Just as efficiently designed transport networks can lower costs and speed up delivery, systematic material flow mobilises and transforms inventory.

Effective material flow solutions ensure customers have what they need, where and when they need it.





Colby Conveyors

Turning your materials handling into materials flow



Conveyors join processes together, and deliver and take away goods, automatically and on cue. Conveyors can intelligently sort out goods or merge goods. The Colby conveyor range facilitates a multitude of functions that can add value to your products and reduce handling costs in your facility.

Conveyors of various types such as belts, rollers, wheels and chains, suit different kinds of applications. They can convey horizontally, vertically, around corners, incline and decline. Usually they are electrically driven, but often gravity - a cheap source of power - can play a crucial part as well.

One of the simplest and most widely used conveyors is a belt sliding on a sheet metal bed; called a 'slider bed'. This is fine for most cartons and many other types of loads. But as loads increase so does friction and, eventually, a powered roller conveyor may be the preferred option, depending on the application.

Heavier loads, like pallets, can be carried on chains sliding in channelled tracks.

If goods have to be merged, diverted, or accumulated, a powered roller conveyor is usually best.

If cartons or totes have to be pushed onto or off the conveyor, they slide sideways better on rollers than belts or wheels.

Powered roller conveyors are usually driven from below by belts, padded chains or bands driven by rotating shaft; called a 'line shaft'.

Colby manufactures all of these conveyors and its team of professionals are well qualified to select the right type for your application.

Gravity Conveyor range:

- [Gravity Roller Conveyor](#)
- [Gravity Wheel Conveyor](#)
- [Gravity Wheel Curves](#)
- [Ball Transfer Tables](#)

Powered Conveyor range:

- [Lineshaft Conveyor](#)
- [Model 1102 Flat Belt under Roller](#)
- [Model 1286 Round Belt under Roller](#)
- [Slider Bed Belt Conveyor](#)

Accumulation Conveyor range:

- [Model 24V dc](#)
- [Model 1265](#)

Pallet Conveyor range:

- [BK 25 Smart Roller Pallet Conveyor](#)
- [T5 Chain Conveyor](#)
- [CNN Pallet Conveyor](#)

Conveyors in distribution

Solutions to improve the efficiency of goods receipt, order fulfilment and despatch

Today's competitive business environment requires cost effective, responsive distribution. Conveyors can lower costs and improve efficiency. Any type of goods movement that is repetitive and performed more than a few times, is worth mechanising. The higher the volume, the greater the advantage you gain by using conveyor solutions.

1. Receiving and despatch

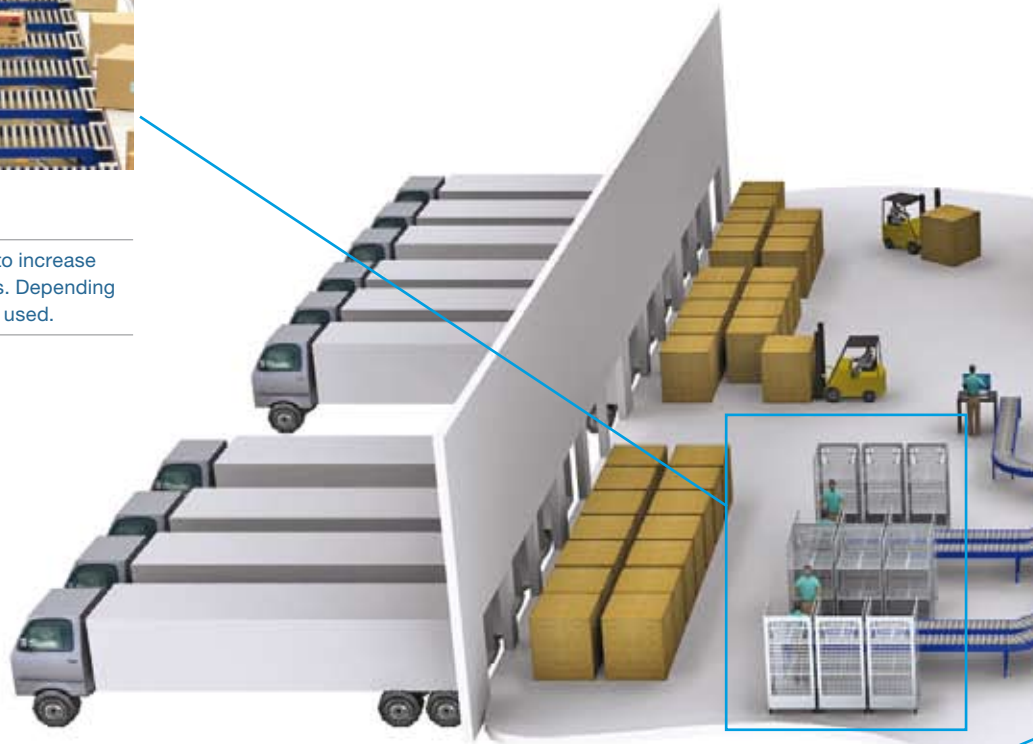


Receiving



Despatch

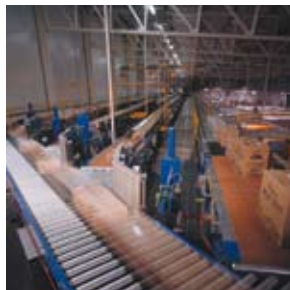
Conveyors can be used in receiving and despatch to increase productivity and reduce transport turnaround times. Depending on the application, different types of conveyors are used.



2. Transportation of goods



Lineshaft Conveyor



Accumulation Conveyor

Conveyors can do more than just transport goods from A to B. Conveyors can add value by automating processes such as check-weighing, labeling and packing. They can provide accumulation that acts as online buffer storage between processes, and their use reduces product damage and improves the ergonomics of materials handling.

4. Mezzanines with conveyors

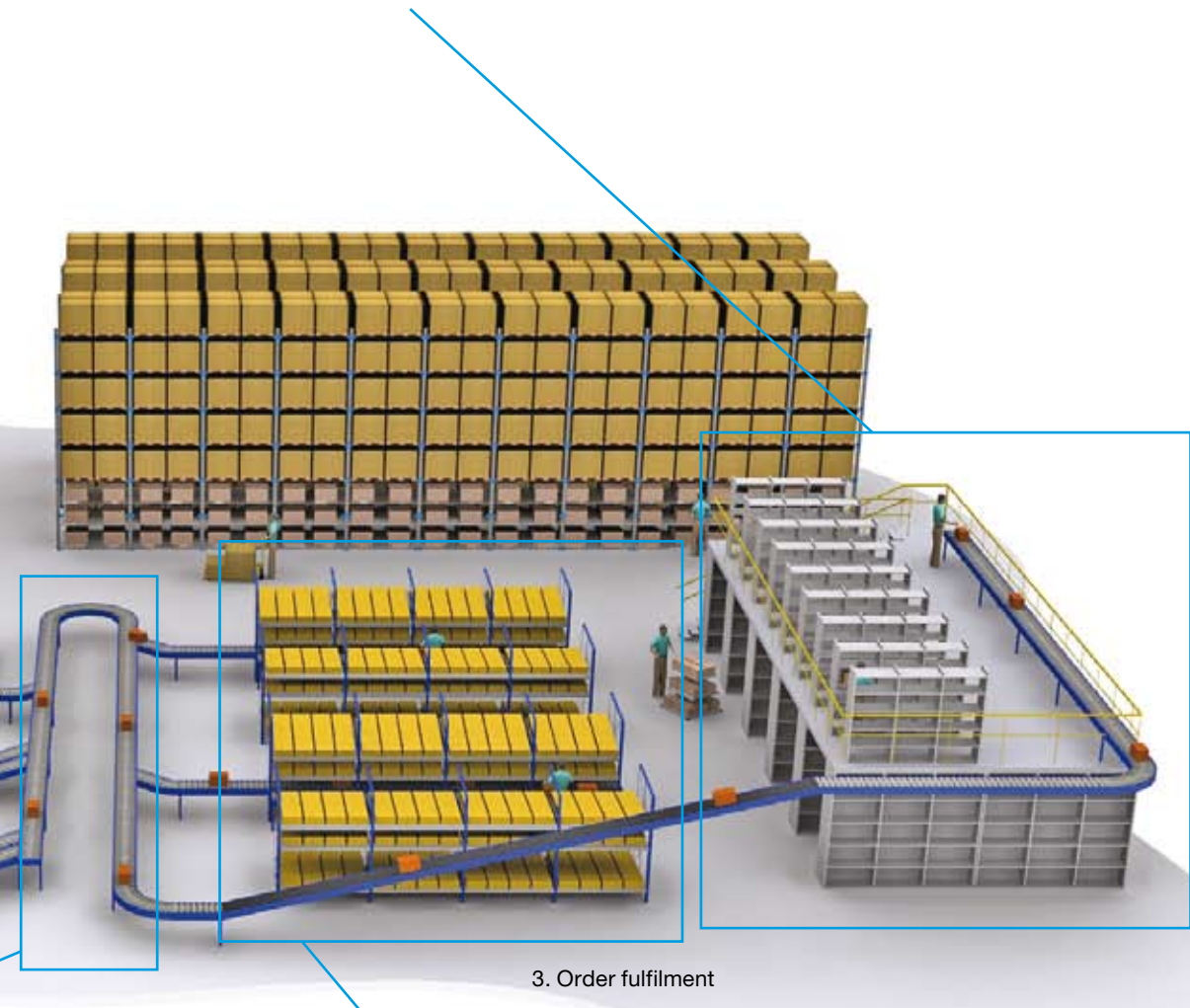


Conveyors in Mezzanines help to move product from one level to another, increasing productivity and efficiency in multilevel operations.

Automated movement of product between different levels significantly reduces operator exposure to OH&S issues.

Incline & decline conveyors

Integrated picking modules



3. Order fulfilment



Split-Case



Full-Case



Zone Picking

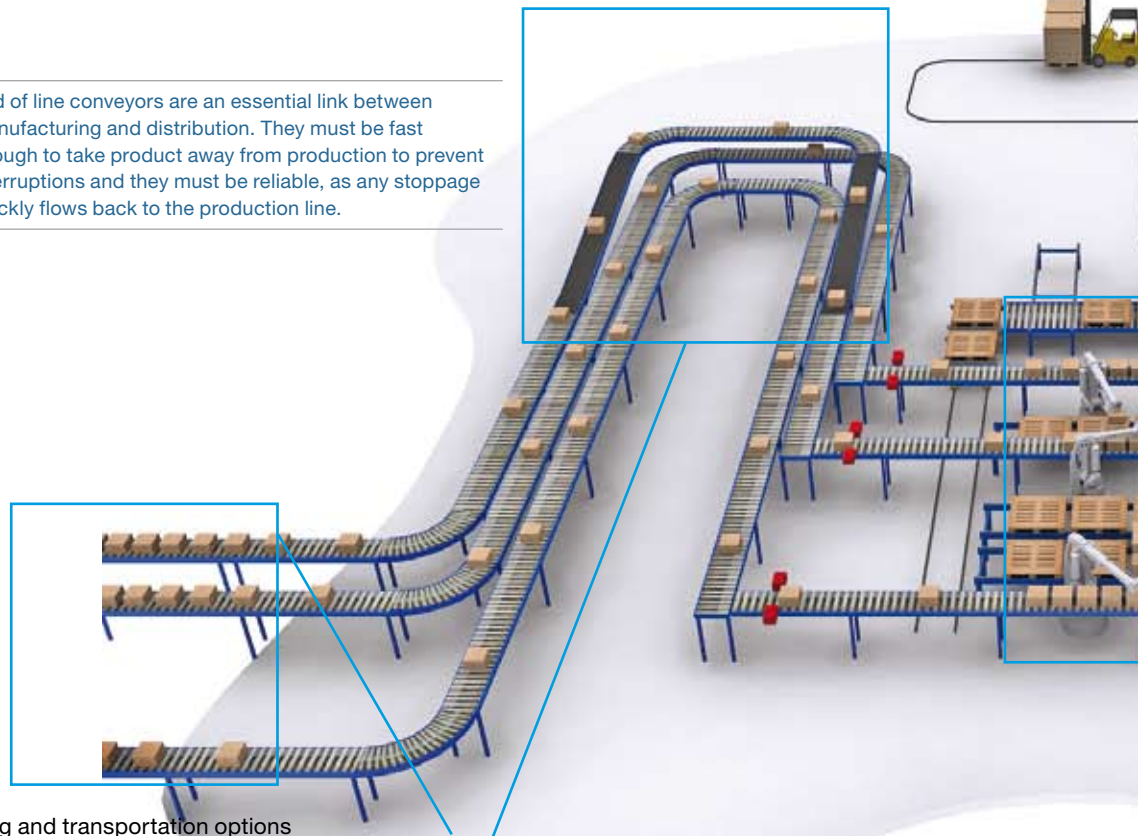
Order fulfilment for faster moving products requires more inventory on the picking line and more flexible access for operators. Split case orders are picked into totes or shipping cartons, which are moved between zones on gravity or transportation conveyor. When orders are completed, the conveyor takes the tote or carton to the despatch area. High productivity and throughput can be achieved in full case picking applications, by picking direct to conveyor.

Conveyors in manufacturing

Solutions to aid transport, buffering, picking and distribution of goods

Getting your products to market on time and at a competitive price is becoming increasingly challenging in manufacturing environments. Conveyor solutions add value by lowering costs, speeding delivery, and offering higher service levels with greater accuracy, providing your customers and suppliers with better control and visibility.

End of line conveyors are an essential link between manufacturing and distribution. They must be fast enough to take product away from production to prevent interruptions and they must be reliable, as any stoppage quickly flows back to the production line.



1. End of line product handling and transportation options



Accumulation & transportation conveyors



Incline & decline conveyors

As manufactured goods exit the production line, they are packed in cartons or cases for handling and transport. The most efficient way to handle and transport products over distance is by conveyor, and there are a wide variety of conveyor systems to suit different product characteristics and performance requirements.

In developing a production handling system, we design for maximum system uptime using reliable, proven conveyor technologies.

2. Manual and automated palletising solutions



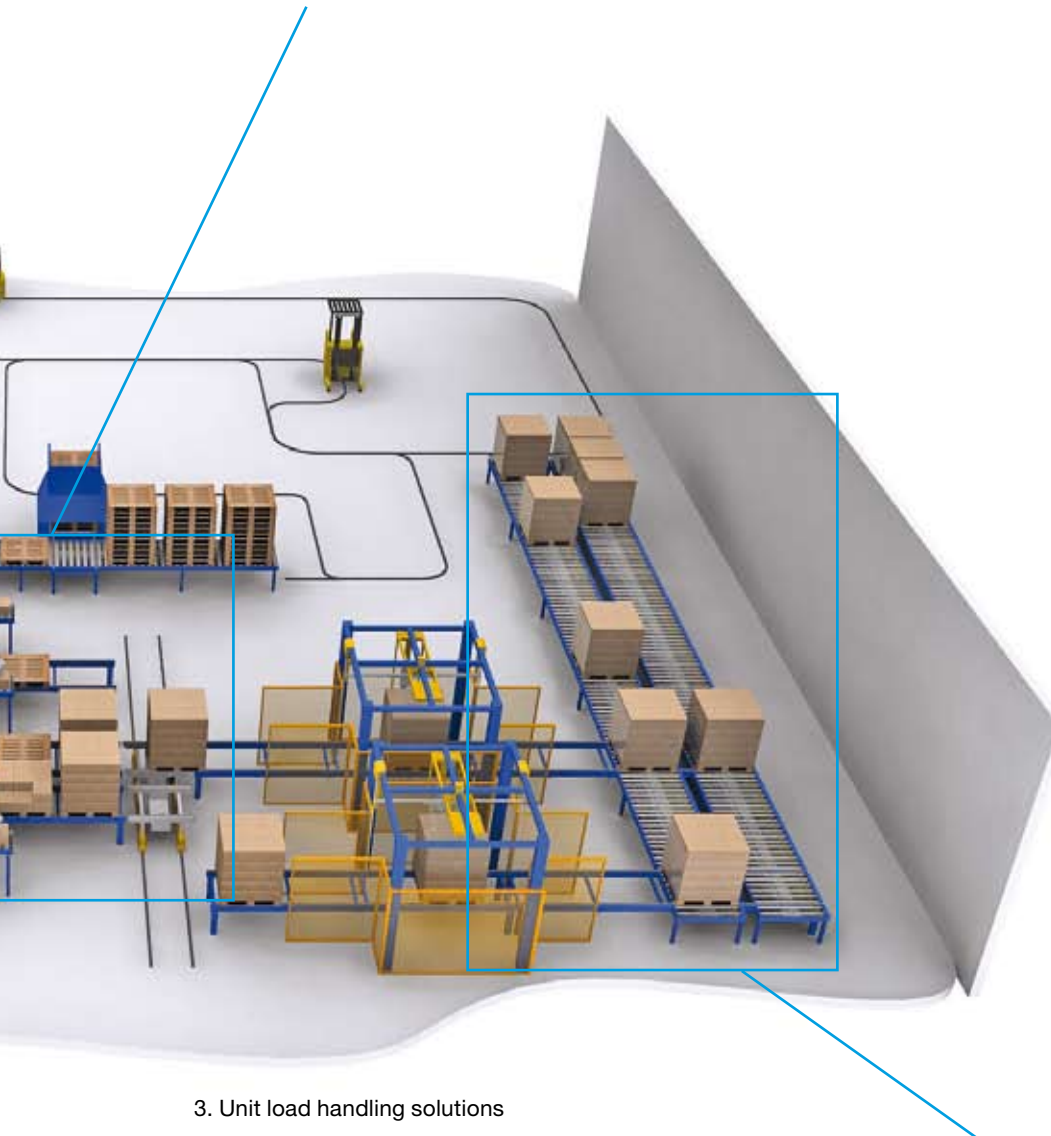
Manual palletising



Palletising conveyor

The high cost of labour and increasingly restrictive OH&S regulations concerning manual handling make a strong case for automated palletising. It provides reliable, around the clock performance, and can handle individual cartons, or full pallet layers of goods in higher throughput applications.

Cartons are usually fed into the palletising system by zero pressure accumulation conveyors which provide a buffer between production interruptions. After the shipping pallet has been palletised, it is taken away by transfer cars and delivered to stretch wrappers where it is prepared for despatch.



3. Unit load handling solutions



Pallet conveyor



Turntables

Colby provides complete solutions for handling unit loads based on required throughput, pickup and delivery.

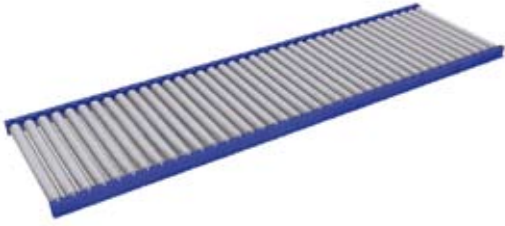
Automated pallet conveyors are a fast, accurate and reliable method of transporting unit loads to storage or despatch.

Once the finished goods have been assembled into a palletised unit load, handling options range from manually operated techniques such as pallet trucks and forklifts, through to fully automated solutions such as Automated Guided Vehicles (AGV's), unit load conveyors, pallet shuttle carts and electrified overhead monorails.

The Colby conveyor range

Gravity, Powered, Accumulation and Pallet conveyor

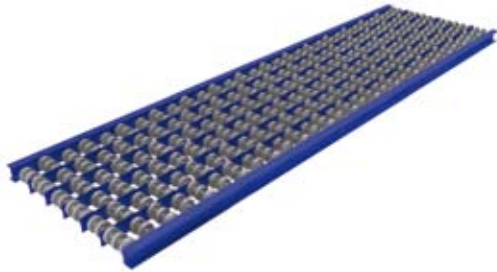
Gravity conveyor range



Gravity Roller Conveyor

Our gravity roller model is available in straight sections. Sections can be angled so product moves by gravity, or installed level to be manually pushed. The 'Cleanline' side channel design significantly reduces operator exposure to OH&S risks. This model handles a wide variety of different products with irregular surfaces.

Widths available: 464mm, 616mm, 768mm & 921mm



Gravity Wheel Conveyor

The gravity wheel model is available in straight sections and curves. Sections can be angled so product moves by gravity, or installed level to be manually pushed. It needs less slope than roller conveyors and can also be used for curve applications. Due to the differential action of the individual wheels, the gravity wheel conveyor provides good tracking abilities. Its lightweight construction allows easy relocation or adjustments at any time.

Widths available: 464mm, 616mm, 768mm & 921mm

Powered conveyor range



Lineshaft Conveyor

The highly versatile lineshaft conveyor can run multiple conveyors and a variety of equipment off a single drive, making this an economical choice for a large range of conveying needs. Lineshaft is also available in curved beds as well as junctions, merges and divert beds. Independently driven carrier rollers make lineshaft more versatile than conventional belt or chain-driven live roller conveyors. Fewer drives means less noise, lower initial cost, and lower maintenance costs.

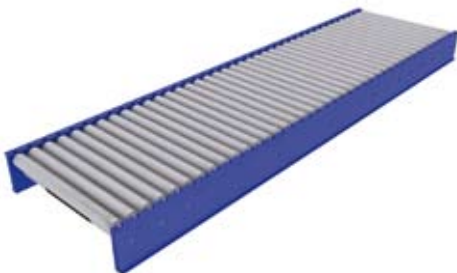
Widths available: 464mm, 616mm, 768mm & 921mm



Slider Bed Belt Conveyor

This conveyor model economically handles products over long distances. It can transport a wide range of load sizes and shapes, including difficult to convey products such as crates, bags, bundles, rolls and unpackaged goods. The belt moves across a steel supporting bed, offering an extremely stable surface. Fitted with rough top belting, it can be used to convey goods between different floor levels.

Widths available: 464mm, 616mm, 768mm & 921mm



Live Roller Conveyor

This belt-driven roller conveyor enables variable drive pressure throughout the system. It uses a roller bed as the conveying surface and a flat belt as the driving force. This gives optimum reliability for rugged conveying applications, including cartons, totes or bagged and bundled items. At merge and divert points, pressure can be increased to full driving force.

Widths available: 464mm, 616mm, 768mm & 921mm

Accumulation conveyor range



Model 24V dc

The 24V dc accumulation conveyor offers true 'zero pressure' accumulation. A motorised roller ensures products are held captive within each accumulation 'zone'. The conveyor requires no other drive devices or controls. Start/Stop control is performed automatically and without the need for additional air-operated devices such as pneumatic roller brakes and case stops.

Widths available: 464mm, 616mm, 768mm & 921mm

Model 1265

The 1265 accumulation conveyor is a general zero pressure accumulation conveyor, well-suited to a variety of industries and applications. The unit's narrow belt drive mechanism is inherently quiet and has been designed to minimise friction, so fewer, smaller drives can power longer runs. Low maintenance and minimal energy consumption result in exceptional operational efficiency.

Widths available: 464mm, 616mm, 768mm & 921mm

Conveyor support range



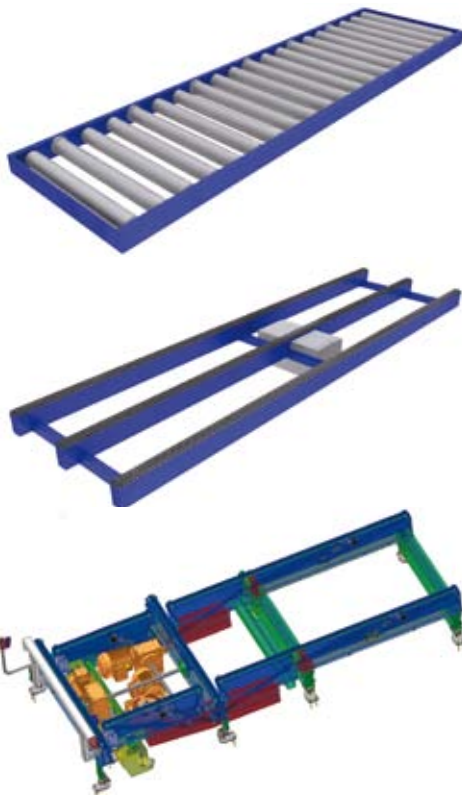
Conveyor Support Assemblies

Conveyor supports are available in a range of configurations to suit a wide variety of installations. All conveyor supports are adjustable and have a powder-coated finish. Conveyor support assemblies available include:

- Low to high level adjustable floor-mounted supports
- Ceiling-hung and cantilever supports
- Double and triple-wide support assemblies

Widths available: 464mm, 616mm, 768mm & 921mm

Pallet conveyor range



BK25 Smart - Pallet Roller Conveyor

BK25 Smart pallet roller conveyors are designed to handle everything from pallets and drums to work-in process containers. They are built to resist heat, dirt, oil, and other contaminants. Smooth transportation is provided through the contact between pallet and roller. Guide flanges on the supporting rollers ensure that the pallets do not move sideways on the conveyor.

Model T5 - Pallet Chain Conveyor

T5 pallet chain conveyors are designed for operational reliability. They are solidly built and require minimal maintenance. Chain conveyors are used when the bottom of the load can be bridged across its width. Two, three, and four strands of chain are offered for positive load location and transport.

CNN Pallet Conveyor

The newly developed CNN Pallet Conveyor is a chain-driven design, purpose built for flexibility and lower setup costs. This new concept utilises a single drive for the takeaway conveyor and the primary transfer, thereby saving the costs associated with the additional drive required in a standard pallet turntable. CNN Pallet Conveyor is designed to be an economic solution specifically for use with pallets weighing less than 1,000 kilograms.

www.colbydandenong.com.au

Colby Dandenong
(A1 Precision Solutions Pty Ltd)

2 Logis Boulevard,
Dandenong South VIC 3175 Australia

Tel: **1800 265 291**

info@colbydandenong.com.au

About Colby Storage Solutions

Colby Storage Solutions is one of Australia's best known and respected suppliers of innovative, high quality storage solutions. With more than 40 years experience in providing reliable and cost effective solutions, Colby combines the flexibility of a national network of independent distributors with the resources of global materials handling specialist Dematic.



Colby products are designed, engineered and manufactured by Dematic Pty Ltd.

