Conveyor Solutions

Colby Storage Solutions
24 Narabang Way
Belrose NSW 2085
Australia
T 1800 265291
F (02) 9486 5511
info.anz@dematic.com

Your Local Distributor

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 Limited. “Colby” and the “Colby Chevron Marks” are registered trademarks of Dematic Pty Limited.

RACK SHELVING CARE

Townsville
Perth
Adelaide
Melbourne
Canberra
Sydney
Brisbane
Auckland

Colby Storage Solutions
Nationwide Distributor Network
Shepparton
Darwin
Dandenong
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.
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.

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.

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 Conveyor

Accumulation Conveyor range:
- Model 24V dc
- Model 1265

Pallet Conveyor range:
- BK 25 Smart Roller Pallet Conveyor
- TS 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

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

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.

3. Order fulfilment

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 conveyors. 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.

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.
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.

Typically, conveyors are used to deliver goods in a single lane with small and frequent stops, whereas Automated Guided Vehicles (AGVs) 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 AGVs, unit load conveyors, pallet shuttle carts and electrified overhead monorails.

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

Accumulation & transportation conveyors
Incline & decline conveyors

Colby provides complete solutions for handling unit loads based on 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 AGVs, unit load conveyors, pallet shuttle carts and electrified overhead monorails.
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. 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

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.
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.