



Adept Conveyor Technologies Pty Ltd

ABN 17 089 670 557

Specialist Manufacturers of Integrated Conveyor Systems

The power to move forward



Australian Owned - Australian Made

www.adeptconveyor.com.au

Whether it is a simple component part recommendation, a purpose built conveyor or a complete system integration, we are here to offer you "the power to move forward".



Making it Work



Making it Pay



Doing it Right



Doing it Better



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Gravity Conveyors

Adept Conveyor Technologies manufacture a wide range of Gravity Roller Conveyor to suit most applications. We are leaders in the field of gravity conveying and are capable of supplying a small section of conveyor through to a complete multimillion dollar turn – key project installation. We offer straight sections, curves, personnel gates, merges and junctions as well as accessories such as product stops and flow control units in our product range.

Gravity Roller conveyor is normally used where the cost of powered conveyor is generally unjustifiable and where the use of free gravity forces will allow the product to move freely along the conveyor.



Frames

Standard gravity conveyor frame widths are 305mm, 460mm and 610mm overall. Other widths are available on request.

Conveyor frames are stocked in both 1.5 metre and 3 metre lengths. Again, other lengths are available to order. Frames are supplied with either “butting plates” (standard) or hook and bar attachments to secure each segment together.

Standard frames are supplied in a “hammer tone” blue spray painted finish. Other colours or finishes are available on request.

Galvanised and stainless steel frames are also available against specific order.



Rollers

Standard rollers for our conveyor frames are 50.8mm diameter. They are available in PVC (25kg capacity), Black Steel and Galvanised Steel in both Medium Duty (140kg capacity) and Heavy Duty (200kg capacity) versions to suit varying loads or conditions. Stainless steel rollers for wash-down or corrosive applications are also available.

Spring loaded axles slot into holes along the frame. On PVC and Medium Duty rollers one end is a D shape whilst the other is round. This allows for easy replacement of damaged rollers.

We supply standard gravity conveyor with rollers at 3 pitches - 79mm, 115mm and 158mm (or multiples of these). Rollers at alternative pitching are available to special order.



Curves

45 and 90 degree curves are stocked as standard. Other angles are available to special order. Standard radius on all curves is 1220mm (measured to the inside vertical face of the outer frame).

Our 305mm wide curve is supplied with a single roller, whilst the 460mm and 610mm utilise twin rollers to ensure true product tracking. Tapered rollers can also be provided if required.

All curves can be supplied with fixed or adjustable side guides.



Supports

Two types of standard supports are available. Both styles provide adjustment from 600 – 1000mm to "Top of Roller". Other support styles and purpose built structures are available to special order.

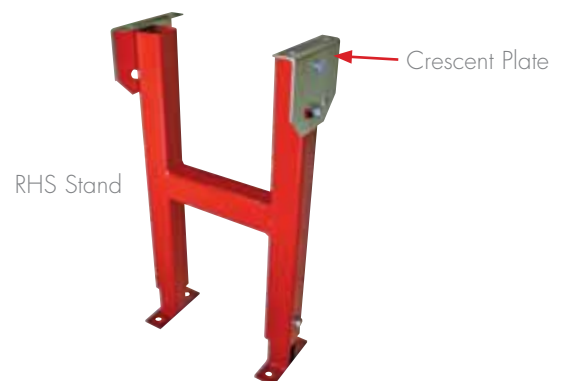
RHS Supports are bolted to the underside of the conveyor frame via a smiley (crescent) plate. This plate allows for angular alignment during installation.

Pipe stands are also available for economy or for applications where the conveyor may be moved on a frequent basis.

Normally, supports are only placed on every conveyor join (3 stands for 2 frames). Curves always require 2 stands for correct stability.



Pipe Stand



RHS Stand

Crescent Plate

Accessories

Components such as flow control, brakes, manual stops etc. are able to be placed at various points along our conveyors. All these items are designed into our systems, should they be required. Angled merges and junctions are also available. These are often supplied with "traffic cops" to aid flow of product along the conveyors.



Mechanical Plough



Mechanical Policeman



Flow Control Brakes

Skate Wheel Conveyor

Skate wheel conveyor is available in either straight or curved sections. We supply single (76mm standard pitch) or staggered track (38mm pitch) skate wheel conveyor in both light duty (plastic skate) and medium duty (steel skate).

1500mm and 3000mm lengths are standard. Skate wheel conveyor is used to transport product in bags, cartons and very lightweight items.

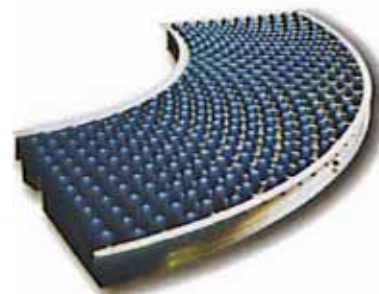
Single track skate wheel is ideal for transporting pallets, lengths of timber etc.



Staggered Wheel Track



Wheel Track for Pallet Loads



"Closed Pack" Wheels can be assembled into straight or curved frames.

Multi-directional Rollers

Multi-directional Rollers offer the freedom of movement in all directions. Even the heaviest materials like granite or marble can be effortlessly rotated and positioned. Multi-directional rollers are the alternative to most conventional solutions of material flow. They provide 360 degree rotation and can convey almost every kind of material that has a flat smooth base.

They are particularly suited for switch points or where a change of direction is required. The unique spherical barrels are available in either POM (Acetal) or PU (Polyurethane) materials, to suit the materials being conveyed. The rollers are available in 40, 48, 60 and 89 mm diameters with either round internal bores for manual movement, or hexagonal bores for power driven applications.



Broad product range



Transfer point in a manufacturing centre

Special Manufacture

Adept Conveyor Technologies are able to custom build conveyors to your needs. These may be smaller diameter rollers or rollers on an alternative pitch or width to our standard manufacture.

We also manufacture units such as ball transfer tables and other materials handling aids including turntables and lifters using gravity roller, ball transfers, Multi-directional rollers and ancillary parts. We are sure we can provide a solution to your requirements.



Transfer Ball Table



Special conveyor for small packages



Gravity Roller Conveyor
Mounted on turntable



Systems

We are specialists in the conceptual design, manufacture and installation of completed systems. Over the years we have completed Turn Key installations for freight and distribution companies, drum handlers, printers, meat processors and packers, fruit and vegetable growers, automotive component manufacturers and many more. We have worked in most industry types and welcome your enquiry for complete systems for any application.

We can provide complete engineering design and advice, or we can work from your drawings.

Our strength is our knowledge.



Stationery Distributer



Gaming Machine Assembly Line Complex

Adeptaflex / Extendible Flexible Conveyor

Roller Conveyors

Extendible Conveyors can be supplied in roller or skate wheel types. Our Adeptaflex range provides steel roller and skates as well as plastic skates. These units are extremely useful when partnered with our Belt Booster conveyors for loading or unloading of delivery vehicles, or in flexible packaging processes.

Extendible Conveyors are ideal for unloading of trucks, use in warehouse applications or container loading / unloading etc.

Available in 450mm, 500mm and 600mm widths.

Modules can extend from 626 – 2282mm, 1476 – 4208mm or 2358 – 6908mm depending on the number of modules in the conveyor.

Roller conveyor is supplied with steel rollers and height adjustable legs fitted with lockable, swivel castors.

Units are supplied with a retractable handle for manoeuvring into position and also as a product stop.

They feature quick and easy set up or storage as well as providing an easy method for loading / unloading of trucks or containers.



Skate Wheel

Skate wheel conveyors are supplied with either 50mm steel or plastic skates (in a staggered pattern), depending on the application.

Steel skates are used in high impact applications whereas plastic skates are more suitable for light product handling.

Skates ensure true product tracking and are suited to lighter loads, such as cartons, and flat bottomed objects and multi-wall bags in some applications.

Roller or Skate wheel conveyors can turn 180 degrees over a small radius. They retract into a small size for easy storage when not in use and are extremely mobile.

Skate wheel conveyors are available in 768 – 2550mm, 1368 – 4734mm and 1968 – 6918mm extensions – in 2, 4 or 6 module lengths.



Steel skate and steel roller versions



Plastic skate conveyors – 4-Module shown

Extendible Conveyor - Heavy Duty

Extendible conveyor are also available as longitudinal expanding types. These are a robust welded construction, featuring steel or plastic rollers. They are easily manoeuvred via quality precision swivel / brake castors. The guided extensions are lockable in any position. The unit can easily be retracted and stored away for future use.



Well suited to factory and warehouse environments as well as vehicle loading and unloading applications.

Line Shaft Conveyor Systems

Line shaft is an economical method of conveying flat bottomed product. A series of rollers, each driven by a polyurethane band connected to a single rotating shaft mounted within the conveyor body, drive the product through the system. Lineshaft conveyors are made as standard in 245mm, 398mm and 550mm between frame widths.

This style of conveying is ideal in warehouse order picking applications or where cartoned product is being transported through a manufacturing process. It allows for low pressure accumulation, quiet operation and easy installation.

Line shaft conveyors are suitable for transportation of products within warehouse or manufacturing operations where lighter weight cartons, tote bins and other products need to be moved, allowing for a variety of situations requiring directional changes. Limited minimal pressure accumulation of product can be obtained with this style of drive method.

We provide straight modules, curves, and merges, slave drive assemblies, under roller brakes, pneumatic blade stops, personnel gates and many other accessories for this product. Due to the nature of line shaft, one drive can power many metres of conveyor, making it extremely economical. We also supply spare spools, bands and rollers.

Curves, in 30 - 45 - 60 or 90 degree, can be supplied with either straight or tapered rollers, depending on the application.



Chain Driven Roller Conveyor

Adept Conveyor Technologies Pty Ltd manufactures a robust range of chain drive roller conveyor. Our systems can be found in many Australian and New Zealand manufacturing companies.

We utilise the best of components in our manufacture. Bearings, roller chains and geared motors are of the highest quality, ensuring long trouble free life. Rollers from 20mm to 89mm diameter are available in our systems to suit various chain pitches.

As with other styles of Adept conveyors, a full range of product exists. Corners, merges, junctions, transfers, cross overs are available.

We also supply friction (accumulating) and non friction fixed drive sprockets depending on the application. All our conveyors are supplied in modules. Standard lengths of 1500mm and 3 metres are the norm, however other lengths are able to be supplied.

Conveyors come with heavy duty leg assemblies. using RHS supports. Adjustable plates are supplied to allow for uneven floor surfaces or decline applications.



Adapted for side transfer



Warehouse QA Area



Specialised Manufacturing Conveyor



Drum Handling

Belt Conveyors

A conveyor style that utilizes a flat belt running on a flat fabricated steel deck or over rollers. They are used where smooth and quiet transport of product is desirable, and is ideally suited to irregular shaped product that cannot easily be moved on other conveyor styles.

Examples of applications other than cartons or tote bins would be the movement of floppy sacks or satchels, bags of powder or flour, or raw food products. This is an excellent conveyor for handling items that may have loose strings or tapes attached that would otherwise get caught in other conveyor styles.

Belt conveyors give a smooth solution for situations where you need a change in elevation—for example inter floor situations or to receive or deliver products to a mezzanine level.

They are also ideally suited to:

Metering— precise positioning

Scanning— in conjunction with code readers

Tracking— where precise positional control is required for sorting

Induction— precise feeding into other conveyors at junctions

Positive transport and positional control in all situations where it is desirable to know where a product is at any time.

Options include sanitary conveyors for the food industry, incline conveyors for plastic moulding machinery, belt over roller conveyors (these are ideally suited to long runs and heavy products).



Bar Code Scanning



Small Parts



Warehouse Dispatch



Cranked Elevator Unit



Feeding from warehouse mezzanine



Used with carton turning device

Mobile Belt Booster Conveyors

Mobile belt booster conveyors are a useful belt over deck or belt on roller conveyor that will handle virtually all conveyable products. These units are ideal for truck unloading and warehouse applications. We use a rough top belt that provides maximum grip of product.

A manual hydraulic power pack and pump enables quick elevation change. These conveyors are pre-wired in our factory with start/stop and emergency stop push buttons, extension lead and suitable plug. Forward and reverse switching is optional. Belt booster conveyors are an ideal companion with our extendible Adeptaflex conveyor for vehicle unloading or for areas with raised storage.



Adeptaflex

extendible conveyors with roller or skate wheels are ideal when used in conjunction with belt booster above.

Chain Conveyors

These conveyors generally have double or triple and sometimes multiple strands of roller chains running over fabricated frames and guides.

They are used where positive transport of goods is required, and are often used in conjunction with roller conveyors where a change of direction is required.

Chain conveyors are often employed for use in systems, handling cartons and tote bins but are most commonly found where movement of heavy loads, such as full pallets, drums, stillages and collapsible pallet boxes used in warehouses and manufacturing areas.

In certain situations where a product is irregularly shaped or has protrusions like feet and cannot be safely handled on other conveyor styles, then chain conveyors will often be used for the transporting job.

A chain conveyor provides good positive drive and is an economical form of transportation of goods. Long runs of chain conveyor are often more economical when compared with other conveyor styles.



Heavy Steel Coils



Drum Conveyor



Pet Food Pallet Transfer



Drum Filling Area



Pallet Transfer on Pneumatic lifters

Warehouse Conveyors

Conveyors are often used in warehouse applications where individual customer orders are picked and packed for despatch.

These conveyor systems can be basic manual systems that allow order pickers to manually push their orders through the picking process to the packing areas, to very smart and sophisticated systems that allow for automatic routing of individual orders into allocated picking zones and through scanning and automatic sorting to delivery destinations.

A high level of automation and control can be integral with a warehouse system of this type.



Despatch area – Recirculation conveyors



Order picking zone



Q.A. and Despatch area

Freight Conveyors

Conveyors that handle all general freight come into this category. Complete systems that involve the removing (de-stuffing) of freight and distributing from large semi trailers with transport and sorting to final destination in smaller PUD (Pick up and Delivery) vehicles for metropolitan and city delivery runs can be offered.

Systems can be basic manual operation to semi and fully automated control which allow for speedy distribution of freight parcels, satchels and containers.



Various conveyors in freight handling hubs

X-10der™ Range

A better way to reduce unloading times of Shipping Containers and Trucks

The X-10der conveyor system is designed to reduce costs associated with loading and unloading trucks and shipping containers. They will speed up operations normally carried out over many hours using manual labour.

The time and labour Involved in manual handing operations can place an unnecessary burden on resources which could be better utilised in a more profitable way.

Loose stacked despatch applications are made easier and safer and eliminates the need for a forklift in unloading operations

X-10der conveyors will ensure turnaround times and stock processing are quicker and more efficient and enable a quick return on investment at the same time.

Telescopic Conveyors (Large range of multi-stage conveyors)



Features offered include hydraulic raise/lower and power traversing - access dock face

Powered, Flexible, Extendable and Mobile

- Battery Powered or
- mains power options - 240 volt

Power Pack & Controls

Gravity Skate Wheel



Up to 9 Hours continuous running on a charged Battery pack



Photo Electric Cell gives zero pressure accumulation



Flexible and Retractable

Powered Belt Curve Conveyors

The right angle can save a lot of space

Adept Conveyor Technologies' curved belt conveyor systems will achieve angles ranging from 30° to 270° using horizontal or spiral curves. Curved belt conveyors are made in modules; they are reliable, adaptable and can be easily integrated into most conveyor systems.

The 'spiral form' curved belt can also make big differences by enabling tight and rapid elevation changes over short distances. Standard belt widths vary from 100mm to 2000 mm, reaching speeds of 30 m/minute.

The Adept patented belt curve system facilitates long life, high haulage performance capabilities, running with less stress over conical drums.

The roller drive chain is guided along the outer edge of the belt, at the same time serving as a belt guide providing a positive locking roller chain /drive, transmitting high tensile strength forces where it is needed most.



90°



180°

CIRCUIT PATH

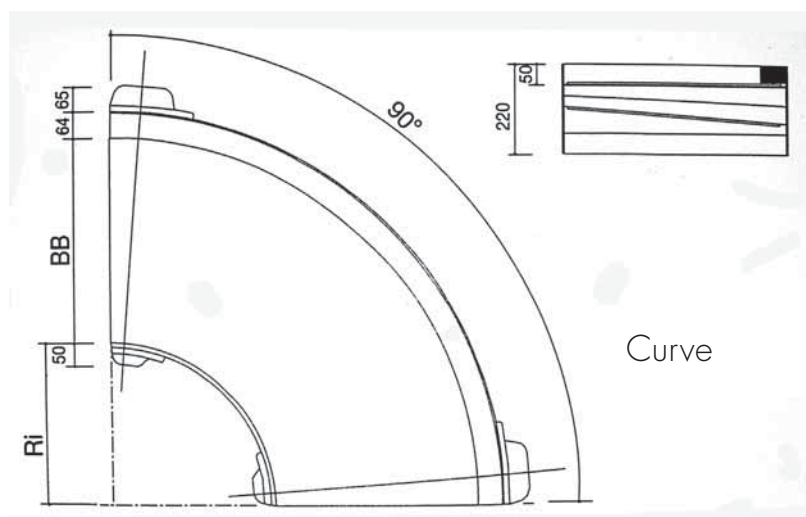
$\alpha = (^\circ)$	45	90	135	180	225	270
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unit range:	120mm/up to 0.37kW					
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	220mm/up to 0.75kW					
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Belt speed:	up to 30m/min					
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Other dimensions possible.



X-10der™ Scissor lift Platforms

When it comes to Mechanical Handling Equipment (MHE) it pays to invest in safety and durability.

Where the safe handling of heavy goods is an important part of everyday operational activity the right equipment will not only prevent workplace injuries but also improve the efficiency in the processing and handling operations

The Adept X10der range of Scissor Lifting Platforms are built to the highest European Design and Safety standards offering a wide range of options to suit all mechanical handling applications.

PRODUCT RANGE TYPES:

Type

Single Scissor Platforms (Standard Range)

High Lift Platforms

Twin Scissor Platforms

Low Profile

Capacities

Application

General applications built to customer requirements offering flexible design options

Used in limited space where high lifting is required .Work platform or Elevators

For handling extremely long or heavy products providing increased stability.

Enables the loading and unloading of trucks with a hand pallet truck without the need for a pit.

500kg to 10,000kg in the standard range of lifting models



Remote Control



PRODUCT ACCESSORIES:

- 45 to 90 degree table top tilt.
- Mechanical screw lifts in lieu of hydraulic power.
- Explosion proof applications
- PLC system control
- Safety retainers ,railings and gates
- Hydraulic shot bolts for rigid locating to floors or walls
- Extra safety devices
- Loading flaps
- Trolley and pallet truck frames
- Conveyor mounting.
- Turntable Devices

Specialist Applications:

Elevated Loading Platforms



MECHANICAL CONSTRUCTION:

X10-der Scissor Platforms have 3 main component parts:

Top Platform (1)

Scissor unit (2)

Bottom Frame (3)



Safety frames are fitted around the lower platform edge.
The platform will automatically stop descending if the frame comes into contact with an obstruction.

Application Gallery

- ▼ Inter floor decline conveyors to connect mezanine and ground floor



- ▼ Specialised Components



- ▼ Integrated sensors and hi-tech driving methods used



- ▼ Bi-directional twin belt zone transfer unit



Application Gallery

- ▼ Incline/decline conveyors with crank sections and power feeders ensure a smooth transport of product between levels



- ▼ Purpose built zone transfer devices



- ▼ Zero Pressure accumulation combined with space saving turntable device



Gravity & Power Conveyor Rollers

We are a specialist manufacturer and supplier of rollers for all conveyor applications. We provide standard and built to order rollers that suit most conveyor types. (see below)



Gravity Rollers & Powered Rollers

Rollers for Gravity Conveyors are available in PVC (Light Duty), Steel (Medium and Heavy Duty) and Stainless Steel. They can be supplied in 16mm, 20mm, 25mm, 32mm, 50mm, 60.3mm, 76mm and 89mm diameters. We supply rollers with round, D, "Q" Shaft, hexagonal and tapped or threaded shafts in a number of materials and diameters. Rollers can be fitted with a variety of bearings types for different applications - sanitary versions also available.



Line Shaft Rollers

We provide rollers for line shaft systems with either hexagonal or round shafts. They are available in PVC, Steel or Stainless Steel depending on the intended application. Differing bearing types are also available.



Rollers with either single or double grooves are available for line shaft applications.



Sprocket Driven Rollers

Rollers with sprocket drives are available in 50 and 60.3mm diameter with either fixed or friction type drives. Plastic or steel dual row 1/2" pitch BS sprockets are able to be provided. We also supply rollers in 20 and 32mm fitted with 6mm DIN Sprockets as well as 32mm rollers with 3/8" BS Sprockets.

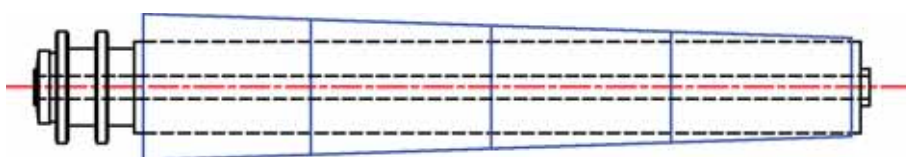
90mm diameter rollers are available with 5/8" welded steel sprockets. (Other sizes on request)



Tapered Rollers for Curves

Tapered rollers are fitted to curves. They are similar to above rollers but are fitted with Polypropylene tapered segments. Plastic or steel dual row 1/2" pitch BS sprockets are able to be provided. 20mm diameter rollers fitted with tapered segments are available with 6mm 17T DIN sprockets.

Tapered rollers can also be supplied for gravity and line shaft systems, or belt under systems.



Contact us for details

Conveyor Components

The vast range of precision engineered components available through the components division of Adept Conveyor Technologies enables us to offer many 1000's of options to suit your individual needs, be it the smallest individual replacement part of an existing conveyor, or replacing an entire set of rollers.

If you need a bearing, sprocket assembly, drive belt, completed roller assembly or want to build your own conveyor, we apply 100 years of combined experience to the problem, and if we don't have the item in our stock we will source it for you.

At Adept Conveyor Technologies one of our important policies is that we do not insist that you need to buy the whole roller assembly, but only the part that you need to replace, saving you time and money.

If you need a replacement part, or simply require components to build your own conveyor, Adept Conveyor Technologies will supply the part to you or source it from our European partner.

Adept Conveyor Technologies are in partnership with Marx Rollentechnik of Germany. All precision components used in our manufacture are sourced from our partner company.



Multi-directional Rollers - Applications

Where used:

- Multi-directional movement at cross over points.
- Transfer positions between adjacent conveyors.
- Suited for use in wheel or roller conveyor applications.
- Tight turning points.

Products:

- Conveying of goods with flat base surfaces.
- Handling of tubes.
- Machine tools or dies.
- Wooden pallets and sheets.

Uses and Applications:

- Internal factory and warehouse.
- Humid and dusty environments.
- Food handling and preparation – suited for wash down.
- Assembly & packing lines.
- Machine feeding.
- Wood working and Laminates.
- Glass or polymer sheets.
- Stone cutting & finishing.





Sydney, NSW Manufacturing Plant & Head Office

Conveyor systems can be utilized in many applications including warehouse order picking, manufacturing processes or in moving freight around freight distribution terminals.

Adept Conveyor Technologies combines purpose built designed equipment into working systems that remove or minimise the labour content out of moving product whether it be from one point to another, providing product buffering between manufacturing processes, or picking customer orders and sorting to specific zones or to shipping destinations.

With over 100 years of combined experience, Adept specializes in consultation with you to see what your needs are, and then tailors a system that will satisfy your needs in the most economical and efficient way.



Melbourne, VIC Branch

Standard Terms And Conditions Of Sale

GST

All quoted prices are exclusive of the Goods and Services Tax (GST). GST will be applied to all invoices at the applicable rate (currently 10%).

PRICE VARIATIONS

If during the course of the contract the customer makes a request for additional equipment, modifications to equipment or additional services, then a variation to contract will be quoted by Adept Conveyor Technologies Pty Ltd (Adept). The request, variation and approval must be in writing. The variation will not proceed until approval is received from the customer.

VALIDITY

The quoted price will remain valid for acceptance for a period of 30 days from the date of quotation. After that period the price will be subject to review and possible adjustment. The customer will be advised of any adjustment.

CURRENCY FLUCTUATIONS

All prices are quoted in Australian dollars. Where imported components or equipment are included in our proposal, the exchange rate on which the price is based is taken as the date of quotation. Any fluctuation in exchange rate, which may subsequently affect the price, will be advised in writing.

TERMS OF PAYMENT

Terms of payment applying to any particular contract will be as outlined in our quotation. Adept will not accept a contract in which terms of payment involve retentions or liquidated damages unless these conditions were made clear at the time of quoting and agreed to in writing by Adept. Failure to comply with the agreed payment terms may see the refusal of supply and/or installation of goods until payments are received by Adept.

PRACTICAL COMPLETION

Practical completion will be the date the system or sections of the systems are first used in product trials during final commissioning as advised by our project manager. The project manager will advise the customer in writing when practical completion is accomplished.

DELIVERY AND INSTALLATION

The estimated length of time required for delivery and installation will be as outlined in our quotation. These times are given in good faith based on conditions applied at the time of quotation. Adept will not accept liability for any costs or damages incurred by the customer if, for any reason whatsoever, these estimated times are exceeded.

The customer should confirm projected delivery of goods at the time of placing orders.

TITLE

The title of all goods shall remain with Adept until all payments have been received.

Contact Adept Conveyor Technologies

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Your Local Distributor

