



# CJ Waterhouse Co Ltd

MATERIALS HANDLING ▼ WEIGHING SYSTEMS ▼ PROCESS SOLUTIONS  
PLANT CONTROL ▼ AUTOMATION ▼ BESPOKE MACHINERY

## Mechanical Conveying



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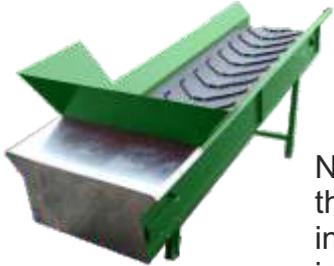
## Belt Conveyors

Belt conveyor systems are used to transfer either loose or solid materials both horizontally and at inclined angles. These conveyors can be supplied with solid or interlinked mesh belts, with or without flights dependant upon requirements and can be used as simple transfer systems, feeding devices or as batch or continuous weighers.



Belt conveyors can be supplied open or fully enclosed with inspection hatches and can include multiple inlets to suit the specific in-feed requirements.

Numerous belt materials and types can be supplied to suit the specific material and elevation angle. Such variants include PVC or rubberised belts, flights or chevrons and integral side walls. In addition belt cleaning systems via mechanical or pneumatic operation can be incorporated.



## Roller Conveyors

Roller conveyors are generally utilised for the transfer of solid or containerised materials. Such conveyors can be supplied with numerous drive options dependant on machine speeds and loading. Layouts can incorporate multiple lanes, corners and transfer systems.

## Bucket & Belt Elevators

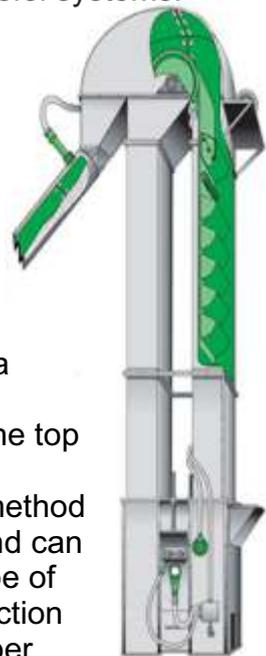


Mechanical elevation systems are utilised where vertical lifting of material is required. We can supply numerous forms of mechanical elevation systems such as:

### **Belt & bucket type.**

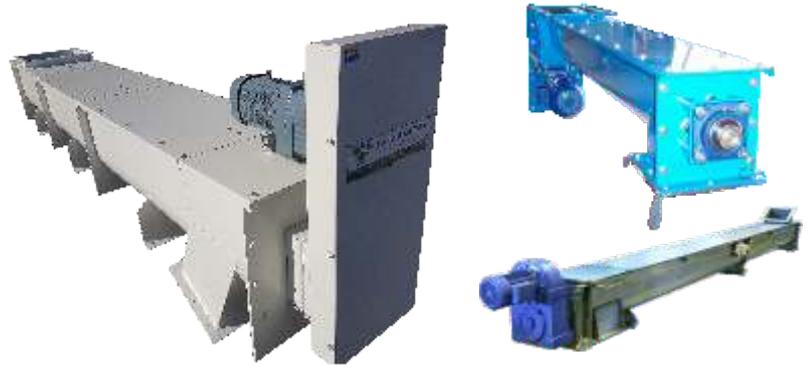
This method uses a vertical belt with buckets which collect materials from a single in-feed point at the bottom and discharges it via centrifugal force at the top

**Swing bin bucket elevators.** This method uses a chain driven bucket system and can have multiple inlets / outlets. This type of elevator incorporates a lower boot section where material is fed in to and an upper horizontal section where cam arrangements tip the buckets at the required discharge point. With these elevation systems multiple configurations are achievable and material can be conveyed both vertically and horizontally.



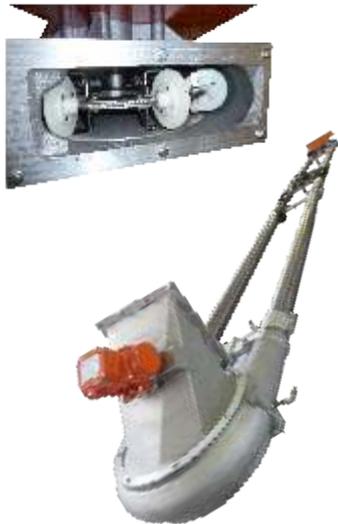
## Screw Conveying Systems

Screw conveyors can not only be used as accurate feeding devices but can also provide an efficient method of transferring bulk materials. Such conveying systems can be supplied to simply move product from one storage location to another or to convey product over a longer distances and incorporate directional changes via multiple units.

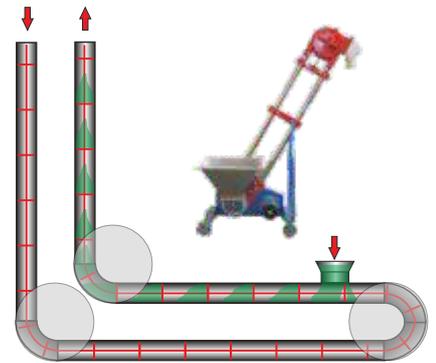


Transfer screws can be designed and supplied to suit our customers exact requirements with respect to conveying rate, dimensions and material handling capabilities. Rotational sensors & choke switches can be incorporated to monitor screw performance and indicate blockages and faults.

## Aero / Mechanical Conveyors



Aero-mechanical conveying systems, often called chain and disk conveyors, comprise of a series of disks mounted onto a central wire rope running within a tubular enclosure. The rope and disks are powered via a sprocket system at one end and are drawn through the enclosure to convey product. The conveying action is via a combination of mechanical and pneumatic movement. These type of conveying systems are useful where line of sight routing is not permissible as they can incorporate numerous direction changes.



## Bespoke Elevating Conveyors

Specialist elevating conveyors incorporating flighted belt systems are supplied for specific material handling requirements such as pre-formed material bags / sachets and component parts.

Such machines can be supplied to simply elevate materials for the down stream process line or as part of larger separation or sorting processes.

These conveyors can incorporate standard rubber / PVC belt or modular plastic systems to suit the specific process and material requirements.





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