



CJ Waterhouse Co Ltd

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

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Mechanical Conveying Systems

Belt & Roller 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.



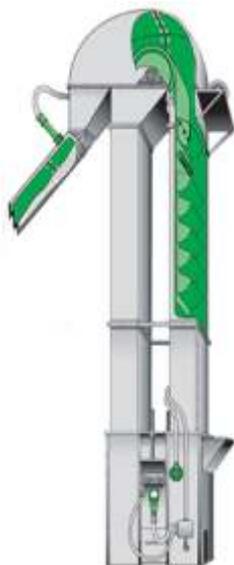
Roller conveyor systems are generally utilised where containerised or solid materials are to be handled. They can be supplied as powered or gravity type and can incorporate bespoke lifting transfer mechanisms, corners and automated holding areas etc



Bucket Elevators / Lifting Systems



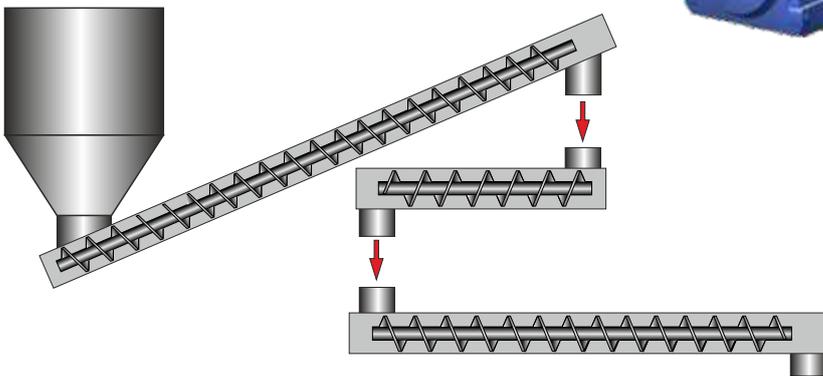
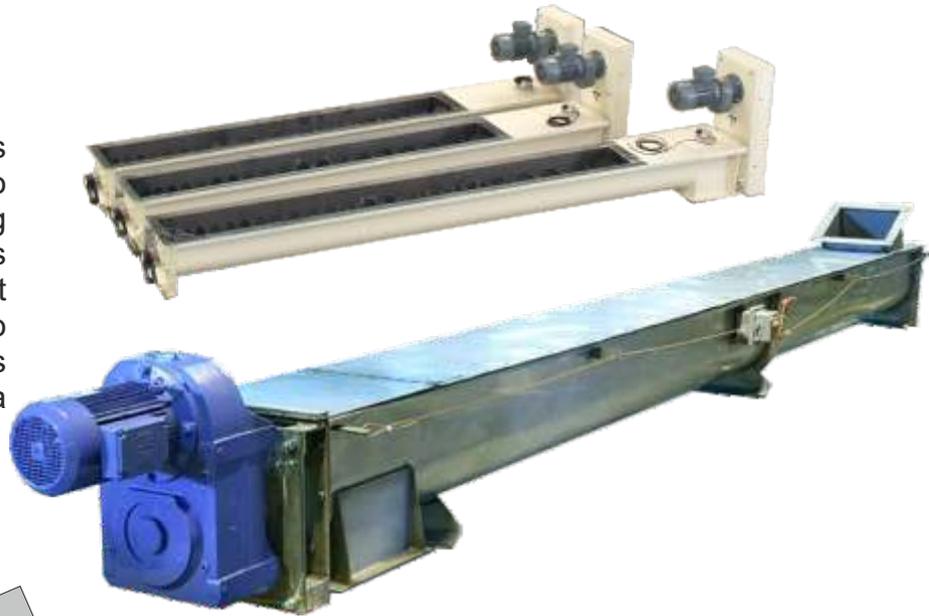
When pneumatic systems are not feasible and insufficient space is available for an inclined conveyor system material can be elevated using bucket type elevators. Various forms are available dependent upon materials, throughputs etc. In general terms these elevator systems collect material into a bucket or enclosure which is attached to the elevation system (belt, chain etc). Numerous buckets are located upon the elevation system which lift the material vertically to the required height before discharging it through a connecting chute to the downstream process.



Mechanical Conveying Systems

Screw Transfer 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.

Vibratory Conveying Systems

As with screw conveyors, vibratory systems can be utilised to transfer product from one area to another in addition to their use as feeding or dispensing systems. Vibration can be utilised to not only move products horizontally but also along positive inclines either in a linear or rotary fashion.



In general vibratory systems are used to convey granular or larger particle size material but can also effectively move smaller particle size materials and powders.