

Centreless Screw Conveyor



Function:

Innovative design features of the shaftless spiral allow a screw conveyor to provide higher throughput rates and low speeds and offer a resistance to conveying materials that would tend to stick or tangle with a shafted spiral. Reliable operation with no end or intermediate bearings maintains efficient and direct transfer of material, even allowing the processing of heterogeneous materials without problems.

Process benefits:

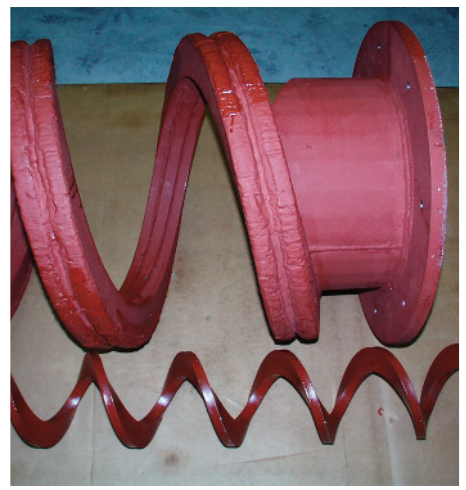
- **A large range of options in terms of direction and distance**
- **Available in either horizontal, inclined or vertical options**
- **Trouble free conveying up to very long distances**
- **Offers lower investment and operating costs than alternative conveying options**
- **Less wear and consequently less maintenance**

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Applications:

Centreless Screw Conveyors will efficiently handle adhesive and wet materials such as pulp materials, waste sludge and soil. Highly abrasive materials including gravel, sand, cinder, crushed rock and materials with large or mixed size particles including wood chips, biomass, and paper are also handled with ease. Centreless Screw Conveyors will also convey very delicate and flowing materials including powder, chemicals and ash.

Design:

Spirals can be supplied in any dimension desired, from 80mm diameter up to 700mm in steel and stainless steel and are available in single, double or triple flight geometry.

Made from either mild steel or stainless the u-section can be either trough bolted or quick release.

Depending on the product the conveyor can be angled up to vertical.

A vast choice of different lining materials depending on the characteristics of the material to be conveyed is available including a two colour version that indicates replacement required when it changes to the second colour.

Drive units are supplied to suit product and throughput.

Typical industry applications include:

- **Waste water treatment**
- **Industrial waste**
- **Pulp and paper**
- **Vegetable and waste food**
- **Sewage sludge**
- **Chemicals**
- **Biomass**

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