

Mass Flow Spiral

Small Footprint. Big Throughput.



The Ryson Mass Flow Spirals are designed to vertically convey full or empty bottles, cans, jars and similar containers. Products are conveyed up or down in a continuous mass flow. They have a relatively small footprint and can provide considerable space savings compared to conventional incline methods.

Easy to Install:

All Spirals are pre tested after assembly. Mass Flow Spirals have minimal disassembly for shipment, drastically reducing the time and cost of installation.

Modular Design:

Our unique design offers flexibility of configuration. It also adds the ability to field modify to accommodate changing future needs at a fraction of the cost of a new conveyor.

Low Maintenance:

Low Maintenance: Our Spirals and components are designed for reliability, low maintenance and long life. They have an impressive up-time record reducing the total cost of ownership.

Built-in Protection:

All Ryson Spirals are equipped with an automatic chain tensioning device and built-in overload protection ensuring safe and reliable operation.

Finishes: Ryson Spirals are available in powder coated carbon steel, stainless steel wet, hybrid and freezer versions.

Single Drive: Our efficient rolling friction chain-slat design only needs a single drive, resulting in substantial savings in energy, controls and systems integration.



Proprietary Belt Slat:

Our innovative chain-slat design enables a low friction

operation without any sliding movements or wear-strips. This efficiency makes them able to start and stop fully loaded.

Common Applications:

Mass Flow Spirals are commonly used in high, or low level palletizing, and transport to and from a filler or retort operation.

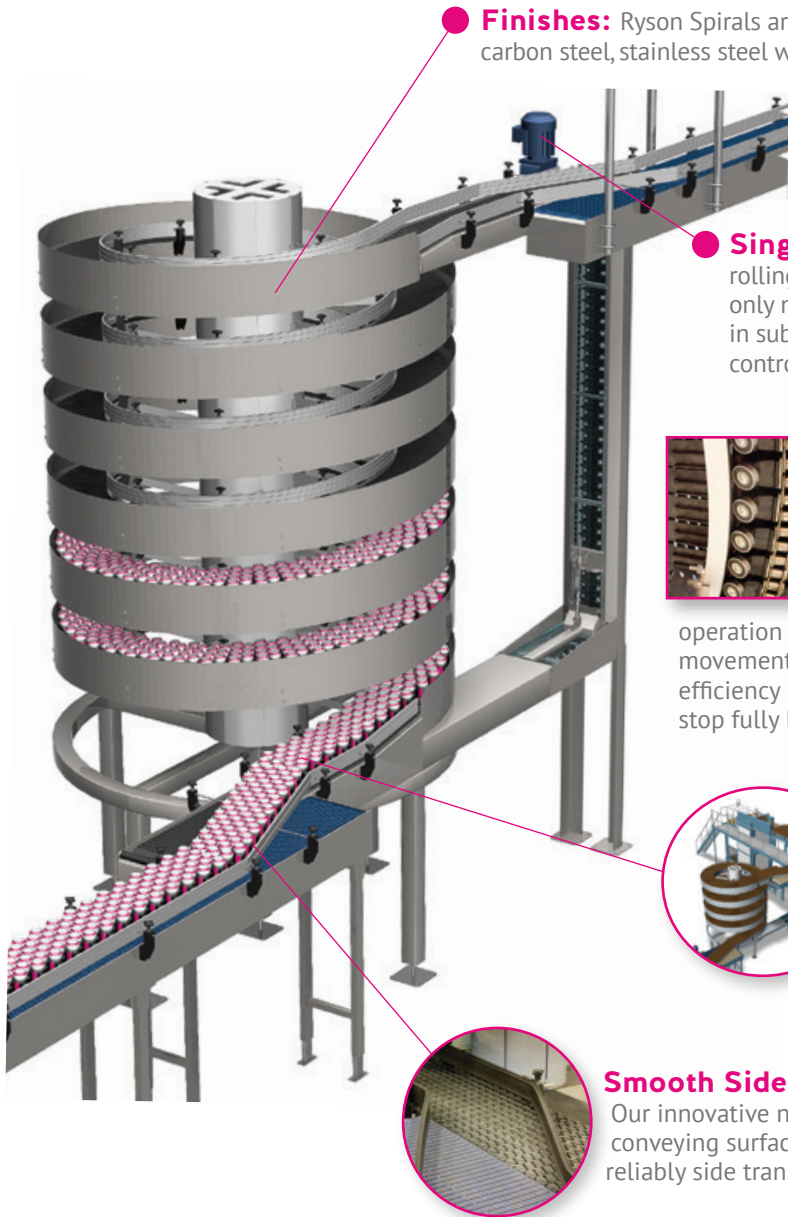
Smooth Side Transfer:

Our innovative nesting slat design enables a flat conveying surface with no gaps. Products are reliably side transferred on and off the Spiral.

Controls and Integration: Most Spirals are shipped without controls because they typically integrate with an overall conveyor control system. We do offer a number of controls and pre-wiring options. A Variable Frequency Drive (VFD) is required for proper operation of the spirals.

High Throughput:

Products are conveyed up or down in a continuous single file or mass flow at a rate of 2,000 units per minute, depending on product size.





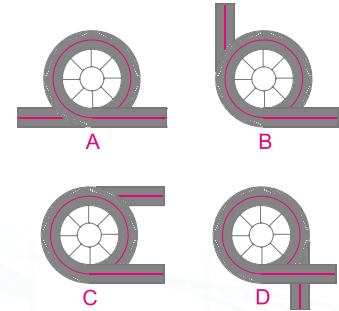
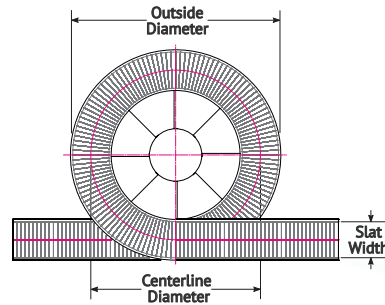
Quick Facts:

Top Volume:	2,000 units/min
Slat Width:	10, 16" & 20"
Weight Capacity:	75 lbs/lin foot
Total Weight:	Up to 3600 lbs
VFD Required:	Yes
Optional Controls:	Yes
Custom Options:	Yes
Color Options:	RAL colors
Incline Angle:	Product Dependent

Configurations:

All Ryson Spiral Conveyors are available in several standard versions to accommodate a wide range of loads and applications.

- The Spiral Conveyors can be configured to go up or down, clockwise or counter-clockwise and can optionally be reversible.
- Mass Flow Spirals use side transfer to reliably on-load and off-load product. The transfer area is flush and is designed to connect ancillary conveyors.



Powder Coated Carbon Steel

Part	Specifications
Frame	Coated aluminium tube with galvanized load arms
Chain configuration	Nickel plated chain, carbon steel bearings
Finish	Powder Coated in most RAL colors

Stainless Steel Hybrid (Dry)

Part	Specifications
Frame	Coated aluminium center tube zinc plated load arms
Chain configuration	Nickel plated chain, carbon steel bearings
Finish	Stainless steel base frame, legs & side guards.

Stainless Steel (Wet)

Part	Specifications
Frame	Stainless steel or coated aluminium tube depending on model. Stainless steel base frame, load arms & fasteners.
Chain configuration	Nickel plated chain with stainless steel sealed bearings
Finish	Stainless steel base frame, legs & side guards.

Typically Conveys:



Cans



Jars



Bottles



Pouches



Cups



Pails



VERTICAL CONVEYING SOLUTIONS. WORLDWIDE.

Ryson is a member of the **Royal Apollo Group**, established in 1847 and headquartered in the Netherlands. Ryson manufactures in USA and supports North America. We have manufacturing in Netherlands, USA, and Thailand with service operations in Netherlands, USA, Thailand, China, India, and Mexico. As one global company, we are the world's leader in Vertical Conveying!