



**The warehousing industry has undergone many changes as new technologies help enhance efficiency.** With the increased e-commerce demand, shortages in labor and skyrocketing price of real estate, many companies are looking to optimize their existing space by expanding vertically.

Warehousing automation has significantly revolutionized how products are stored, conveyed and tracked. One critical automation component is the Spiral Conveyor system. The spiral conveyor vertically transports products from one level to another within a very small footprint - and with fewer drives.

The need to expand vertically is exactly why Ryson Spiral Conveyors are ideally suited for the warehousing industry. Ryson Spirals can transport cases and totes to heights of up to 50' while only requiring one small drive motor. This not only results in an efficient use of space, but consumes very little energy too.



### High Capacity:

Our High Capacity models are designed to carry heavier loads and can be configured to have different sized conveying surfaces ranging from 12" to 36". The clever – and efficient - design of our chain-slat arrangement allows the transport of different sized units without need to make adjustments. This is a perfect feature for operations like pick modules – where package sizes can vary greatly.



### Wide Track:

The Ryson Wide Track models are the largest High Capacity Spirals we manufacture and offer the widest conveying surface. These have quickly been adopted at facilities like home improvement stores where there are a wide range of product sizes with many SKUs being quite large and heavy. The load capacity of all of our High Capacity model's is 75 lbs. per linear foot of conveyor and can operate at speeds up to 200 FPM. The total weight capacity in the spiral at any one time is 3600 lbs. - and the spirals can be stopped and started fully loaded.



### Multi-Level:

All of our High Capacity models can optionally be equipped to induct, or divert loads out of the spiral at intermediate levels. Special proprietary induction and divert conveyors have individually adjustable conveying surfaces to match the spiral's pitch, assuring a safe and reliable product transfer.



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# CLASSIC APPLICATION EXAMPLES

## Replacing Old Equipment:

Ryson Spiral Conveyors are often specified to replace older belt curves or gravity conveyors because they require less maintenance, have a smaller footprint and handle the product much more reliably. They can also be installed in very tight areas. While most spirals are delivered fully assembled, the highly modular design of Ryson spirals allows them to be reassembled in-place for challenging installation where existing equipment or building structures prevents moving a fully assembled spiral into place.

## Order Picking Operations:

To minimize floor space operations, order picking operations frequently stack picking operations in levels. Ryson Spiral Conveyors with inductions and diverts are ideally suited to providing the vertical transportation of product between these levels. Loads can be fed to the proper level at one end of a pick module and merged at the other end for delivery to shipping. Utilizing Spirals with inductions and diverts minimizes the floorspace required for vertical transportation freeing up more space for picking operations.



## Early Out Efficiency:

Ryson Spiral Conveyors can be used to increase efficiency of a pick module by routing completed orders directly to the sorter. The most commonly ordered SKUs are placed on the lower level of the pick module, and if the case order is complete, it can bypass the rest of the pick module with an "early out" conveyor. This can result in substantial energy savings and efficiency.

The use of Ryson Spiral Conveyors in warehousing has become an essential tool in optimizing space utilization and improving material handling efficiency. With ever-evolving innovations, the productivity of warehouses and supply chain management will continue to increase. The reliability of our Spiral Conveyors are ready for the challenge. Are you?



## 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!

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