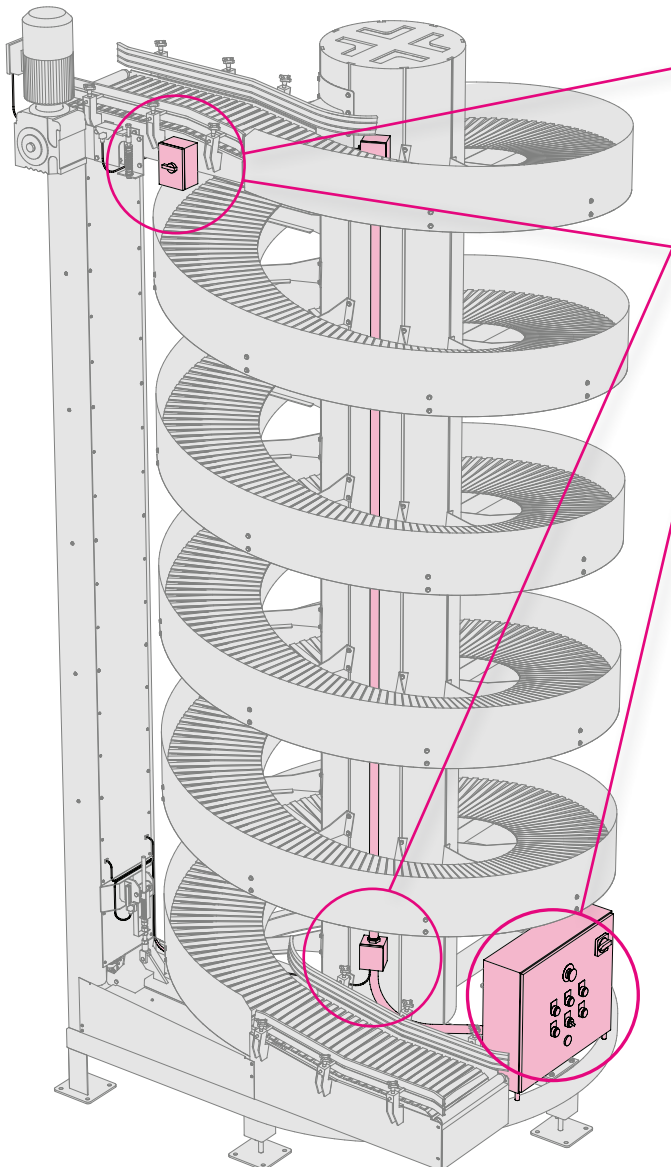


# Ryson Spiral Pre-Wiring and Controls Options

Most of our Spiral Conveyors are shipped without controls because they normally integrate with an overall conveyor control system. Our spirals always include an inverter duty gear motor and two proximity sensors, one for the automatic chain tensioner and one for the overload protection device. We also offer a number of controls and pre-wiring options.



## Pre-wired motor disconnect switch- mounted and wired

- Standard is Hubbell NEMA 4X

## Pre-wired motor disconnect switch, chain tension and motor overtorque sensors pre-wired to a common terminal enclosure

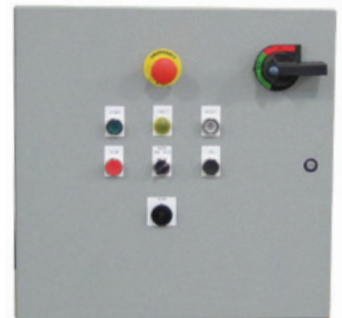
- Available in NEMA 12 or 4X
- Missing Slat Detector and Air Tensioner Controls can be included



## Self-Contained Control Package

One stand-alone NEMA 12 painted steel enclosure with aluminum rigid conduit

- Allen Bradley Micro 850 with ethernet
- Allen Bradley PowerFlex 4 VFD
- Jam (or line-full) sensor at the discharge transition (pre-wired)
- Control panel includes
  - 1) Illuminated "start" Push-button
  - 2) "Stop" Push-button
  - 3) Illuminated Fault Light
  - 4) "Reset" Push-button
  - 5) Auto/Manual Selector Switch
  - 6) "Jog" Push-button
  - 7) Alarm Horn
  - 8) Mushroom E-Stop Push-button
  - 9) Panel mounted lockable disconnect switch
  - 10) Digital or Ethernet Interface with Upstream & Downstream Controls
  - 11) Free 850 PLC Software Downloads Available from Rockwell
  - 12) Standard Panel uses UL/CUL components.



# Ryson Spiral Pre-Wiring and Controls Options

Below are some standard options, but Ryson is also willing to work with you if you have facility-wide requirements.



## Missing Slat Detection System option:

Using 2 retro reflective sensors and reflectors this system can detect if slats are missing and send a signal of this fault to the system controls to trigger a shutdown of the spiral. This system is available in 24vdc or 110vac.



## Reversible Spiral Pneumatic Kit option:

Spirals can be ordered with an option for reversibility. This function is intended as a maintenance feature and is limited to 60 ft/min. The pneumatic kit comes standard with a lockable dump valve, water filtration filter, dual regulators, a low air pressure fault switch and a solenoid which can be either 24vdc or 110vac.



## MDR (Motorized Powered Roller) Transition option:

Spiral can be ordered with a motorized transition roller which helps small loads enter and exit the spiral without stalling.



## Movimot motor option:

the MOVIMOT is a frequency inverter mounted directly onto the motor, which eliminates the need for costly shielded cables from a typical VFD to the motor. Unlike many frequency inverters, MOVIMOT achieves its sophisticated control through DIP switch settings and requires no electronic set-up at all.



## Simplified Control Package option:

This prewired control package option has a local, lockable fused disconnect, the spiral safety sensors wired to terminals and a VFD. This option can have either digital or ethernet interface to the overall system control system.



**VERTICAL CONVEYING SOLUTIONS. WORLDWIDE.**

Click or Scan QR Code or Visit [www.ryson.com](http://www.ryson.com) for Additional documentation.



REV 6/23