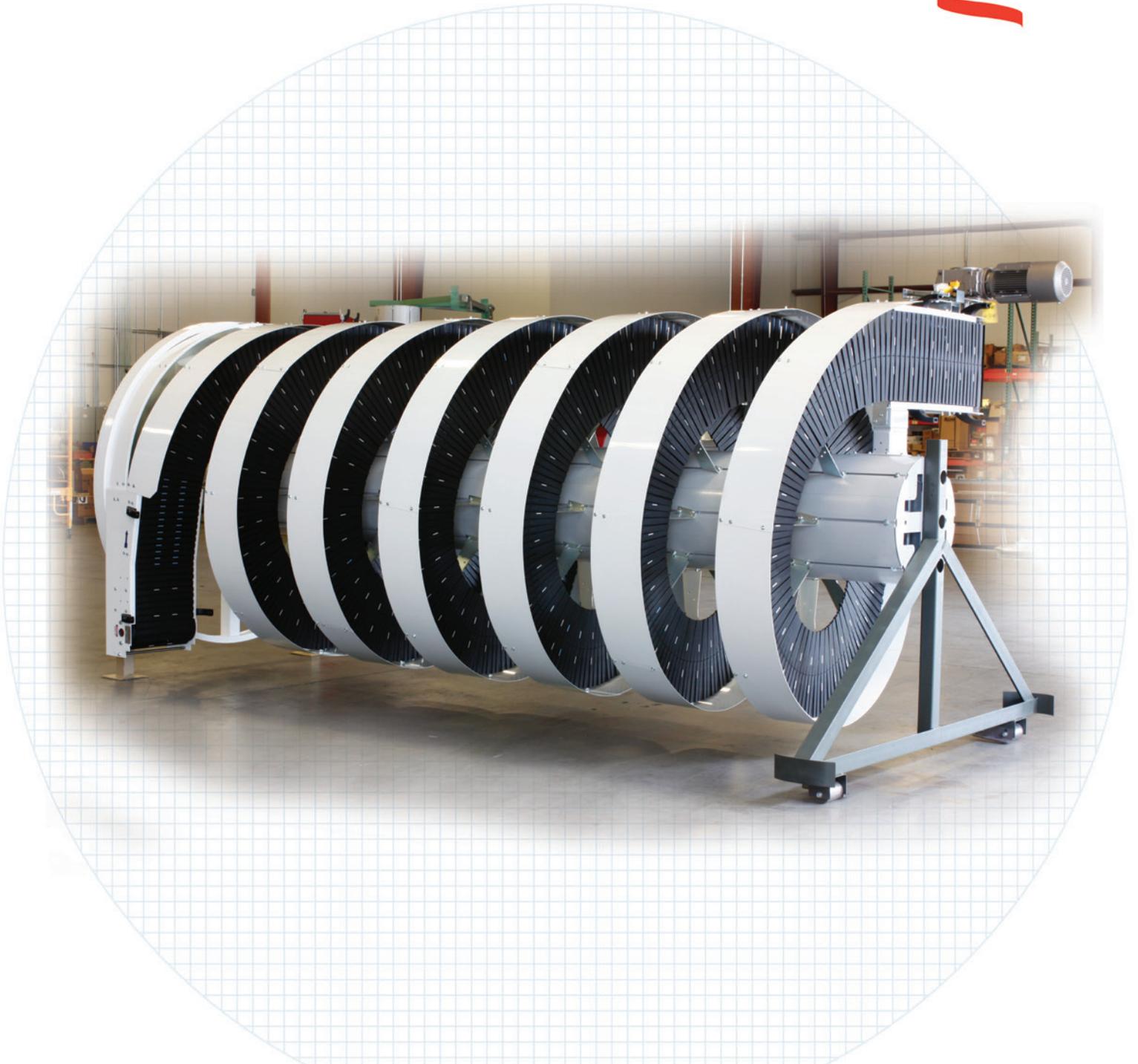


Ryson Spiral Installation at a Glance



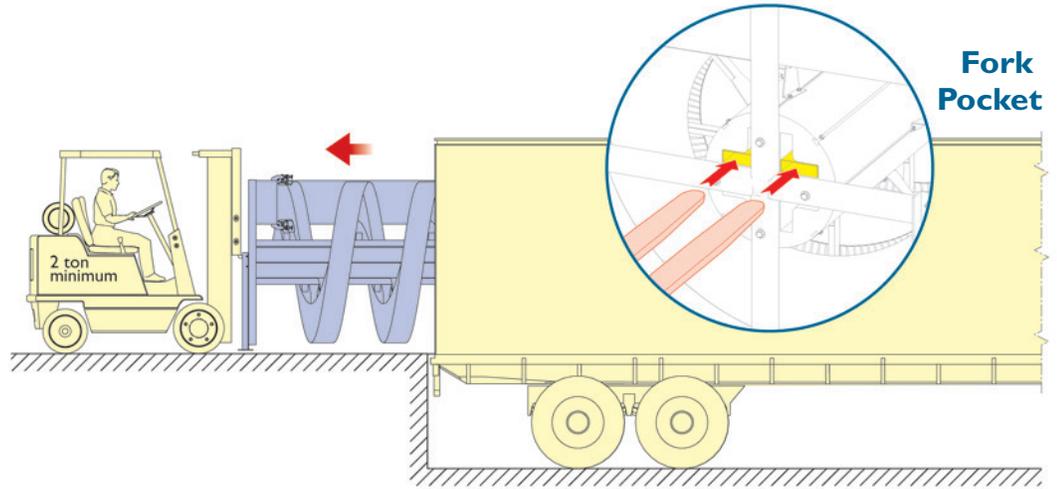
Most Ryson Spirals are shipped in one piece pre-assembled and pre-tested, thereby drastically reducing the time and cost of installation. Certain spirals will for shipping purposes be delivered with some components detached. They include spirals equipped with extended in-feed and out-feed tangents or spirals with a diameter larger than 8 feet. Consult the manual supplied with your spiral for more information.

All spirals are shipped in an A-frame equipped with casters. This facilitates easy unloading and transfer to the installation area. Two reinforced fork pockets are provided in the center tube at the bottom end of each spiral. These pockets are clearly marked and will safely facilitate horizontal forklift handling. The top end of the center tube is used for rigging when standing up the spirals.

Spirals shorter than 16 feet

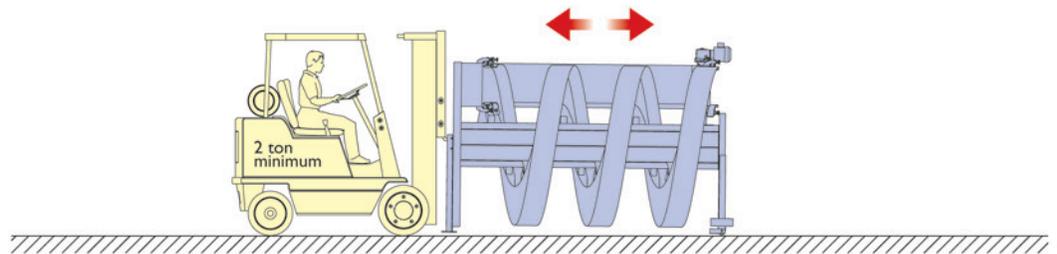
1. Unloading Spiral

Only use the two reinforced fork pockets provided in the bottom end of the center tube when unloading and transporting the spiral.



2. Transporting Spiral

Lift the pocket end of the spiral and move carefully while the transport frame (with casters) is supporting the opposite end.

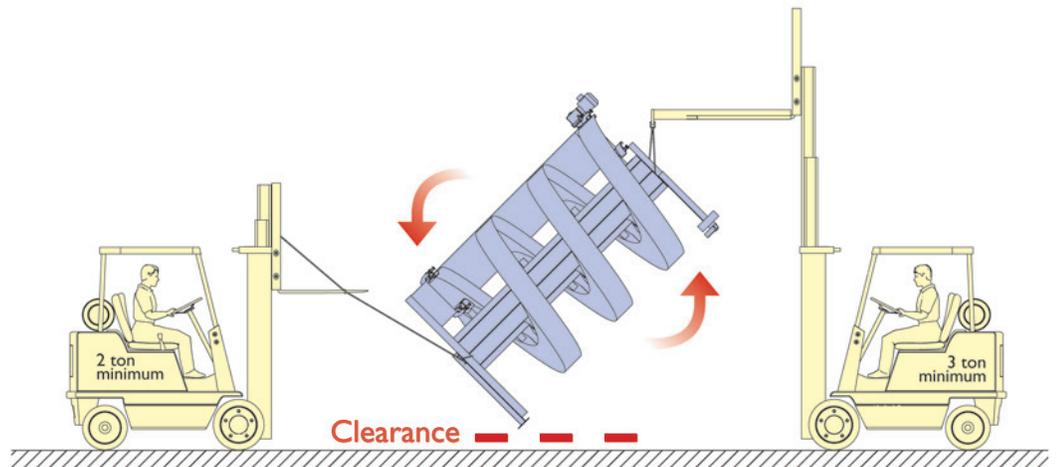


3. Standing Up Spiral

The top end of the center tube is used for rigging when standing up the spiral. Use only properly rated wire rope or chain slings. Use a forklift or boom truck.

Use a second forklift to assist and to make sure the spiral clears the floor when lifting. Use only properly rated poly slings or straps.

Caution: Check to make sure all slings and straps are properly secured before lifting.



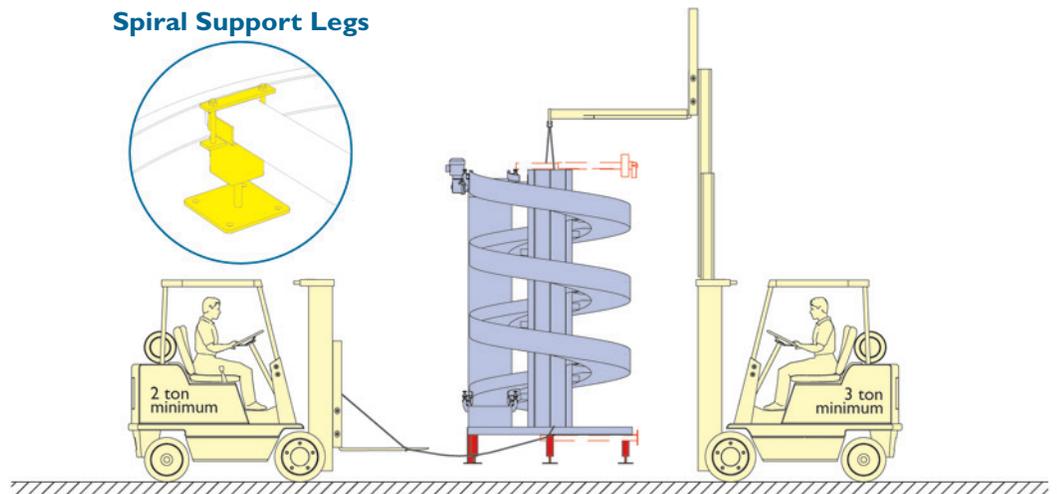
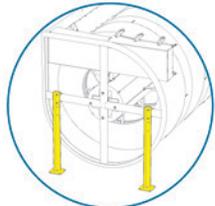
Spiral Support Legs

4. Install Legs

Remove transport legs and install the spiral support legs while the spiral is hanging. Remove transport frame when spiral is standing.

Transport Legs

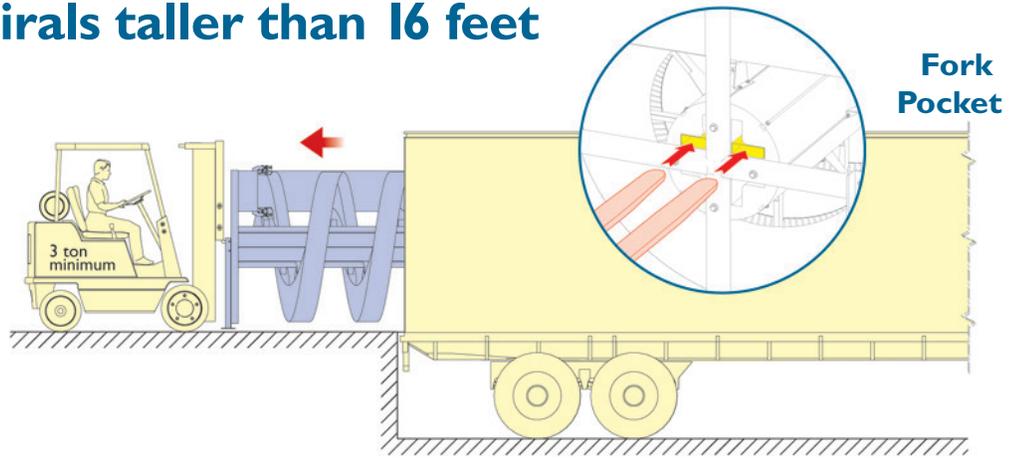
Transport Frame



Spirals taller than 16 feet

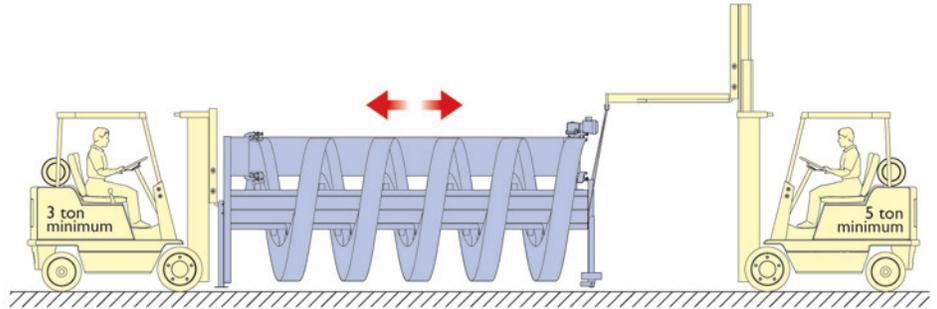
1. Unloading Spiral

Only use the two reinforced fork pockets provided in the bottom end of the center tube when unloading and transporting the spiral.



2. Transporting Spiral

Lift the pocket end of the spiral and move carefully. A second forklift is required to maneuver and turn the spiral in tight areas.

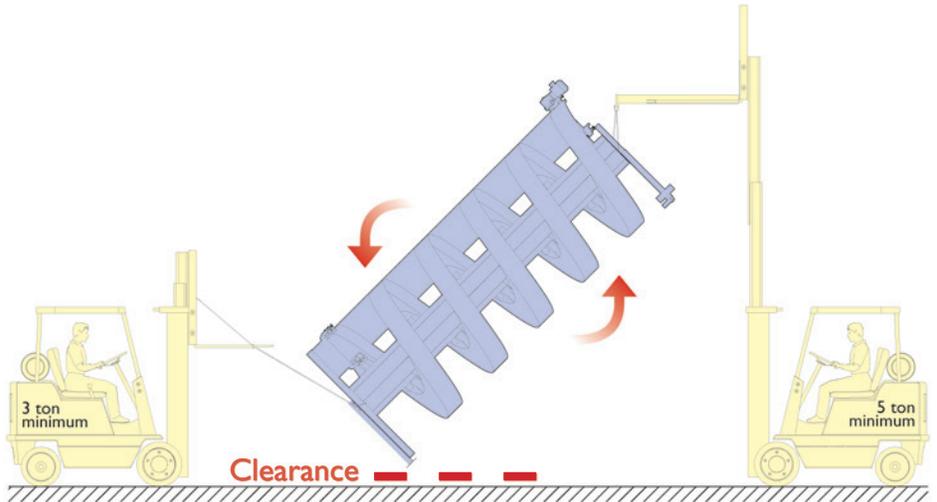


3. Standing Up Spiral

The top end of the center tube is used for rigging when standing up the spiral. Use only properly rated wire rope or chain slings. Use a boom truck or crane. A crane is necessary for spirals above 24 feet.

Use a second forklift to assist and to make sure the spiral clears the floor when lifting. Use only properly rated poly slings or straps.

Caution: Check to make sure all slings and straps are properly secured before lifting.

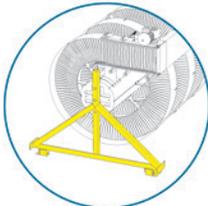
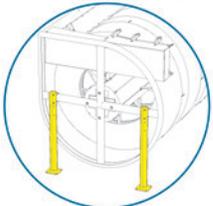


4. Install Legs

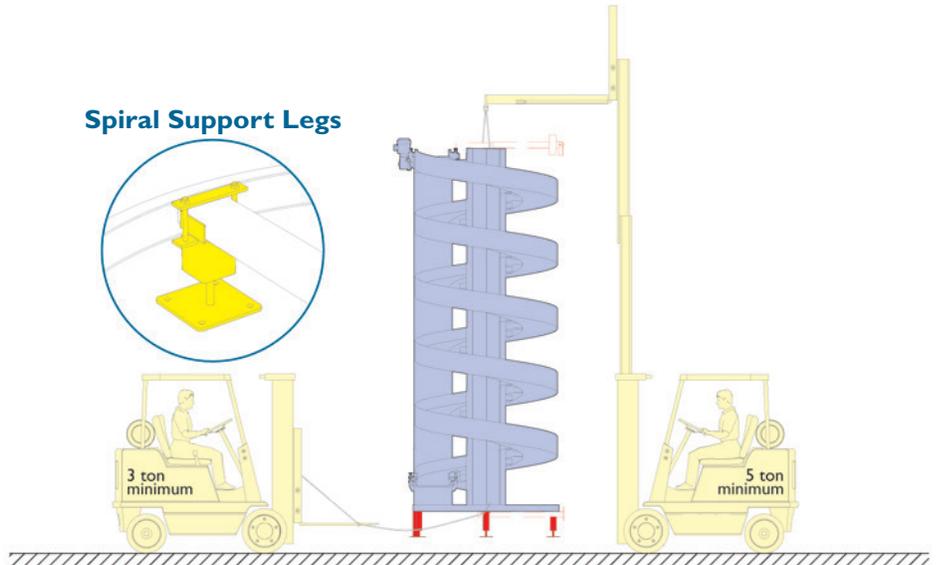
Remove transport legs and install the spiral support legs while the spiral is hanging. Remove transport frame when spiral is standing.

Transport Legs

Transport Frame

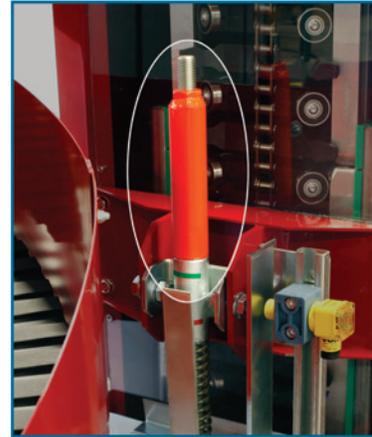


Spiral Support Legs



Spiral Start-up Check List

- Check to make sure that all integration instructions are implemented.
- Check the chain-tensioner for the proper chain tension adjustments. **Remove the red chain shortening tool (shipping nut) if installed. Save tool for future use.**
- Check that all side guides are in place and adjusted correctly.
- Set the adjustable transition rollers and/or transition plates. Check height adjustments to assure smooth product flow over transitions.
- Check gear motor for oil level and breather plug. **Remove vent shipping grommet if installed.**
- BUMP motor and check spiral direction. Run spiral at slow speed at initial startup and check for any parts that may have come loose during shipment or installation.
- Check proximity sensors for power and function.
- Check VFD ramp-up. The acceleration parameter should be 3 to 5 seconds depending on spiral height.
- Check VFD ramp-down. The deceleration parameter should be a minimum of 3 seconds.
- Run test product and set overload device as necessary with a fully loaded spiral.
- Check speed matching. The in-feed, spiral and out-feed conveyors must run at the same speed.



The above is an abbreviated list. Please refer to the maintenance manual for more details. The Ryson Service Department is always available to assist with installation and service questions. Feel free to call 757.898.1530 or e-mail service@ryson.com with questions.

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