Riley Equipment’s bucket elevator line is designed with the user in mind—commercial and farm-duty are available in painted, powder coated, galvanized or stainless steel finish. Built for easy seasonal maintenance, standard items are in place for safety precautions, and each weld is quality checked for optimal performance.

- Trunking flanges are welded solid inside and outside.
- All bucket elevators are equipped with pillow block bearings.
- Trunking components are fixture welded to ensure quick and easy construction in the field.
- Riley’s gravity take-up boots are offered in 18”, 24” and 30” pulleys as well as 36”, 42” and 48” (which are the only three the competition offers).
- Head platforms wrap around the front of the head, giving ample clearance for service and inspection.
- 5’ Removable doors on both sides of the up casing for quick installation and maintenance of belting and buckets. Option to go up to 10’ doors on both sides of trunking.
- Access doors are located at the boot, discharge and pulley lagging area.
- A safety cable is standard on all head access doors.
- Heavy-duty motor mounts with torque arm anchorage points are standard.
- UHMW shaft seals keep moisture out and dust in.
- The Riley technical team is available 24/7 during peak season. High quality equipment and service is our standard.

Riley offers standard bucket elevators up to 60K bph, and custom sizes, up to 80K bph, are available to meet your specific need.
Riley offers nine series of bucket elevators, each with several configurations, to match your facility requirements. Customization is available to meet your specific needs if they are not listed below:

<table>
<thead>
<tr>
<th>Series</th>
<th>BPH</th>
<th>CFH</th>
<th>TPH</th>
<th>MTPH</th>
<th>Pulley RPM</th>
<th>Belt FPM</th>
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</table>

*Multi-row buckets available. Capacities up to 60K standard, build to suit up to 80K

**LADDER AND SAFETY GATE**

Riley ladders and safety gates are made of aluminum making them light weight, easy to handle and install. The self-opening ladder safety gate, equipped with a T-handle with keyed lock, includes a back panel to prevent access to ladder on back side.
**OPTIONAL ACCESSORIES**

**Dura-Splice** Durable Belt Fastener with "one size fits all" belts and pulleys. Each splice set joins a 2" wide belt area.

**Elevator Head and Legging**

**Explosion Relief Panels** Relief panels release pressure from possible explosion. Safety cable prevents panel from falling. Each set includes four relief panels.

**Elevator Belt Speed Monitor**

The speed monitor mounts to the elevator boot shaft to detect slowdown in belt speed, indicating a plug situation. An alarm is sounded and/or the leg is shut down automatically. Available in Single Set Point and Dual Set Point, both in dust-tight and explosion proof models, less control cable and alarms.

**Bucket Attachment Hardware**

#1 Norway Elevator bucket bolts with nuts are sold (100) in 1” through 2” long, standard and fanged variety. 1/4” and 5/16” Lock Washers, Flat Washers and Hex Nuts are available.

**Elevator Boot Hopper Magnet** High intensity magnet is mounted in elevator boot hopper to remove tramp metal. Quick release clamps are used for easy cleaning.

**Elevator Belting** PVC belting is available from stock for widths of 7", 10", 11", 13" and 14". Other widths of PVC as well as rubber belts are available.

**Elevator Buckets**

Elevator buckets are available in polyethylene and steel. Specifications required are length, width, number and spacing of holes and hole size.

**Urethane Sheet** High quality urethane sheet is stocked in 4 Ft. x 10 Ft. x 1/4" thickness with expanded metal backing. Variety includes: 1/4" Expanded Metal Backed Urethane, 1/4" Ceramic Chipped Urethane and Krytane.

**Motors** Motors up to 150 HP are available from stock. Motors are 1725-1800 RPM 60 Hz. and 1450 RPM 50 Hz, three phase. Enclosures are TEFC or Explosion Proof, Class II, Group G.

**Boot Shovel Pocket** A boot shovel pocket is available on most bucket elevators. The shovel pocket has a hinged cover and a grate over the opening. The shovel pocket is located on the down leg side.

**Pulleys** Replacement elevator and conveyor pulleys are available in various types of construction; single disc, drum and winged. Specifications required are diameter, face width, shaft size, and crowned or flat face.

**Pulley Lagging** Heavy-duty slide lagging (SOF Style 5) slides into retainers which are welded onto the pulley. Replacement lagging is available in 6 Ft. long strips with retainers.

**Gravity Take-Up Boot** Gravity take-up for automatic belt tension is available on the Pluto series through the Jupiter series bucket elevators; and standard on all Galaxy models. Included is a weight box and alignment bolts for tracking the elevator belt.

**Self Cleaning Boot** Gravity take-up for automatic belt tension. Self cleaning style holds close clearance between boot bottom and cups at all times. Winged style pulley with shaft mounted on pillow block bearings.

**Bucket Elevator Machinery Arm** Mounts to the head platform.
Experience a new standard of quality and service with Riley Equipment, a preferred designer and manufacturer of processing machinery and bulk material handling equipment for agriculture and a wide variety of industrial markets.

This is next-level design and fabrication of customized equipment to meet our customers’ very specific requirements, in addition to a robust standard equipment line. We manufacture all products in-house under stringent quality controls to ensure proper alignment and fit in the field.

Riley Equipment, a division of LeMar Industries, offers a complete line of bucket elevators, distributors, spouting and accessories, drag conveyors and screw conveyors.

LeMar Industries is an agricultural as well as sand & gravel design and manufacturing operation providing: support towers, catwalks, temporary storage, transport conveyors, bulk weighers, drive over conveyors, open belt conveyors, grain reclaim service and super structures along with specialty fabricated equipment. The LeMar Industries family of companies also includes Hall Industries, a cutting-edge design and metal fabrication shop, and Midwest Bearing, a leading bearing and power transmission aftermarket supply house.