Swinglink® Bucket Elevators

Applications

- Cereal
- Coffee/Tea
- Confectionery
- Pasta
- Pet Foods
- Salt/Spices
- Snack Foods/Nuts
- Ammunition
- Batteries
- Carbon Black
- Catalyst
- Chemical
- Fertilizer
- Glass Cullet
- Metal Powders

Features & Benefits

- Heavy duty chains for long-life durability and reliability
- Various construction materials for chains to meet specific process applications
- Optional automatic chain cleaning (ChainCare) for maximum cleanliness
- Robust unit construction for durability and easy installation
- Clean-in-place capabilities for maximum cleanliness
- Multiple cover options to meet specific application needs and ensure safety
- Buckets remain upright throughout circuit to ensure product integrity
- Smooth bucket surfaces eliminate product trap areas
- Various construction materials for buckets are available to meet specific process requirements
- Multiple feed inlets and discharge points for production capabilities
- Discharges on lower run reducing product free-fall and maintaining product integrity
- Durable, yet gentle, handling of customer’s product

State-of-the-art testing facility allows customers to actually test their product in use with equipment
- Skilled engineering and sales support staff ensures customer satisfaction
- Strong service department for post-sales support and spare parts

Tough, Gentle, Clean

Gough Econ, Inc.
P.O. Box 668583, Charlotte, NC 28266-8583
Phone: 800.264-6844      Fax: 704.392.8706
E-Mail: sales@gough econ.com
Website: www.gough econ.com
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## Typical Circuit Configurations

- S
- J
- D
- I
- T
- O
- Y
- I
- T

## Typical Capacity Chart

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1. Based on 60% fill. Throughput is defined as cubic feet per hour.
Typical Engineering Data

**Construction:**
Tubular, open, folded construction, or totally enclosed designs available.

Construction Materials: 11-gauge folded steel side panels with 14-gauge steel, stainless steel, or lexan cover panels.

All elevators are covered up to 7'-0" for safety purposes.

**Bucket Design:**

Sizes:
- "S" Series: 6", 9", 12", 18" wide

Pitch:
- "S" Series: 6" centers
- "M" Series: 9" centers
- "L" Series: 12" centers

Construction Materials: Carbon steel, stainless steel, or polypropylene. (Note: 6" bucket for "S" Series is not available in plastic.)
Bucket pins: Stainless steel type 303

Tipping mechanism: Individually replaceable “teardrop” and/or “T” cam. 360° rotations

**Chain Design:**

"S" Series: C.S. – 1.5” pitch
S.S – 1.5” pitch

"M" Series: C.S. – 3” pitch
S.S – 3” pitch
Plastic – 3” pitch

"L" Series: C.S. – 3” pitch
S.S – 3” pitch
Plastic – 3” pitch

Construction Materials: Acetal plastic, carbon steel, or stainless steel

**Sprocket & Shaft Design:**
Easily removed sprockets made from steel (for steel chains) or a polymeric compound (for plastic chains).

**Sprocket/shaft bearing:**
Sealed flange bearing

**Lubrication:**
Lubrication required on CS & SS chains. (Lubrication used depends on application)
No lubrication required on plastic chain.

**Temperature:**
-22 °F (-30 °C) up to 230 °F (110 °C)
120 °F highest recommended temperature for plastic buckets.

**Finish:**
Steel It™ air dry polyurethane

**In-Feed Options:**
Controlled in-feed recommended
Multiple in-feed option available

**Discharge Options:**
“Over the end” discharge
Single or multiple discharge(s) anywhere in circuit available

**Drives:**
Drive HP, voltage, etc. dependent on application. Motor drives into a gearbox, which is then transferred via transmission chain and sprockets. A torque limiter provides protection to elevator main chains and components.
Swinglink® Bucket Elevators

Typical Operating Description:

Standard design provides for in-feed on top run of buckets; however, other in-feed designs are available.

Multiple in-feed options are available.

Buckets overlap in the horizontal position to prevent product spillage during loading.

Over-the-end discharge is available.

Single or multiple discharges anywhere in circuit are available.

135° to complete 360° rotation as required.

Buckets remain in upright position while loading and after discharge. This allows maximum gentle handling without product free falling from buckets.