Swinglink® Heavy Duty Bucket Elevators

Industrial Applications

- Soap/Detergents
- Ceramics
- Ammunition
- Fiberglass
- Talc powder
- Aluminum scrap
- Salt
- Rocks/minerals
- Batteries
- Carbon Black
- Catalysts
- Chemicals
- Fertilizer
- Glass Cullet
- Metal Powders

Features & Benefits:

Gough elevators are designed to handle heavy duty products such as ammunition.

Gough utilizes the most robust construction and components in the industry to insure reliability and durability.

Heavy-duty buckets in stainless steel, carbon steel and plastic are available.

Gough bucket conveyors utilize the strongest chain in the industry.
Swinglink® Heavy Duty Bucket Elevators

Typical Circuit Configurations

Typical Capacity Chart (in CFH)

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<th>Speed (FPM)</th>
<th>S-SERIES 9&quot; Wide</th>
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1. Based on 60% fill.

Tough, Gentle, Clean

Gough Econ, Inc.
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Form: swinglink®ind.doc Rev 2
Typical Engineering Data

**Construction:**
Open folded construction or totally enclosed designs available in carbon or stainless steel. Custom engineered such as Z-purge and dust tight are available.

*Materials of Construction:* 11 gauge folded steel side panels, with 14 gauge steel, Lexan stainless steel cover panels available.

All elevators are covered up to 7’ for safety purposes.

**Bucket Design:**

Sizes: 
- “S” Series: 6”, 9”, 12”, 18” wide
- “M” Series: 9”, 12”, 18”, 24”, 30”, 36” wide
- “L” Series: 18”, 24”, 30”, 36”, 42”, 48” wide

Pitch:
- “S” Series: 6” centers
- “M” Series: 9” centers
- “L” Series: 12” centers

*Materials of Construction:* Carbon steel, stainless steel or polycarbonate as required. (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

*Materials of Construction:* Acetal plastic, carbon steel or stainless steel available.

Tensile strengths – 1,500 lbs – 24,000 lbs
Working loads – 300 - 4,800 lbs

**Sprocket & Shaft Design:**
Easy removable sprockets made from either 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.)
(Higher temperature buckets available)

**Finish:**
Steel-It™ air dry polyurethane. Epoxy coating is available.

**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 upon 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.

Tough, Gentle, Clean
Typical Operating Description

Standard design provides for in feed on top “row” of buckets; however, other in feed designs are available.

**Multiple in feed options are available.**

Buckets overlap when in the horizontal position to insure that there is no product spillage during loading of product into buckets.

Over the end discharge is available

Single or **multiple discharges** anywhere in circuit are available. Discharge is on lower run.

Buckets remain in upward facing position while loaded and after discharge. This allows for maximum gentle handling without product free-falling out of buckets.

135° to complete 360° rotation as required.

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