**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.

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**Tough, Gentle, Clean**

Gough Econ, Inc.
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Website: www.goughecon.com
Form: swinglink.ind.doc   Rev 2
Swinglink® Heavy Duty Bucket Elevators

Typical Circuit Configurations

Typical Capacity Chart (in CFH)

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<th>Speed (FPM)</th>
<th>9&quot; Wide</th>
<th>12&quot; Wide</th>
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1. Based on 60% fill.

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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

- **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.

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**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.