

## GAPPER-O

### Three-Stage Gapping Belt Conveyor

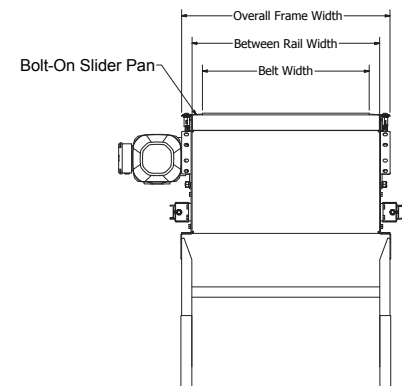
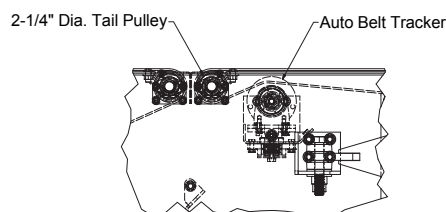
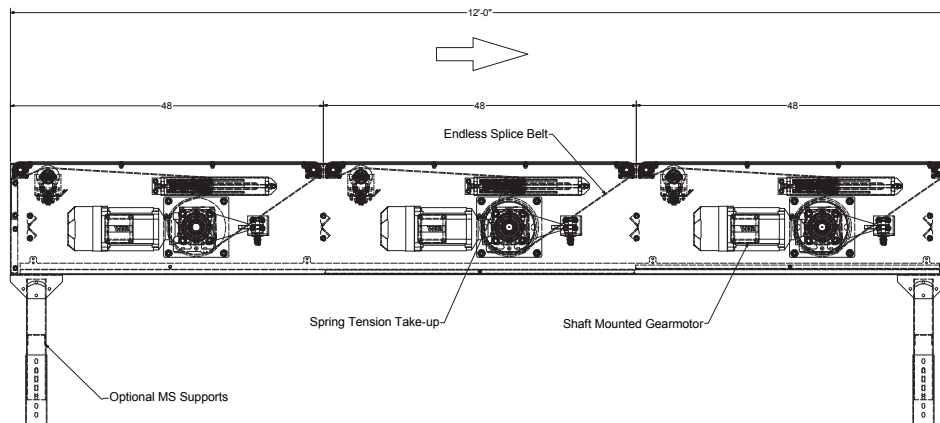
The model Gap Optimizer is designed for feeding sawtooth merges, combiners, sorters, or other equipment where gaps must be optimized between cartons or for feeding scales where carton pitch must be controlled.

- 3-Stage
- Single Bed Design
- 5 Belt Widths
- Automatic Belt Tracker
- Spring Tension Take-up
- High-Grip Longitudinal Grooved Belt; Endless Splice
- Adjustable MS-Type Floor Supports Available



Conveyor shown with optional floor supports.

Size to Order Overall Length	Belt Width	12"	18"	24"	30"	36"
	Between Rail Width	15"	21"	27"	33"	39"
	Overall Frame Width	18"	24"	30"	36"	42"
12'	Weights (lbs.)	1227	1636	2045	2454	2863
Weight Per Foot (lbs.)		102	136	170	240	239



# Standard Specifications GAPPER-O

**BELT** – High-Grip longitudinally grooved belt; NSL-11ESBV-U2 Endless Splice.

**BED** – 12 ga. galvanized slider pan mounted on a 17 in. x 12 ga. powder-painted formed steel channel frame.

**SPRING TENSION TAKE-UP** – 2 1/4 in. dia. take-up pulley; provides 16 ft. of belt take-up.

**DRIVE PULLEY** – 8 in. dia. with 1 11/16 in. dia. shaft at bearings, flat-faced and lagged.

**BEARINGS** – Sealed, pre-lubricated, ball bearings on drive. Precision bearings on tail shafts.

**MOTOR** – 2 HP Eurodrive Gearmotor with encoder ES7C.

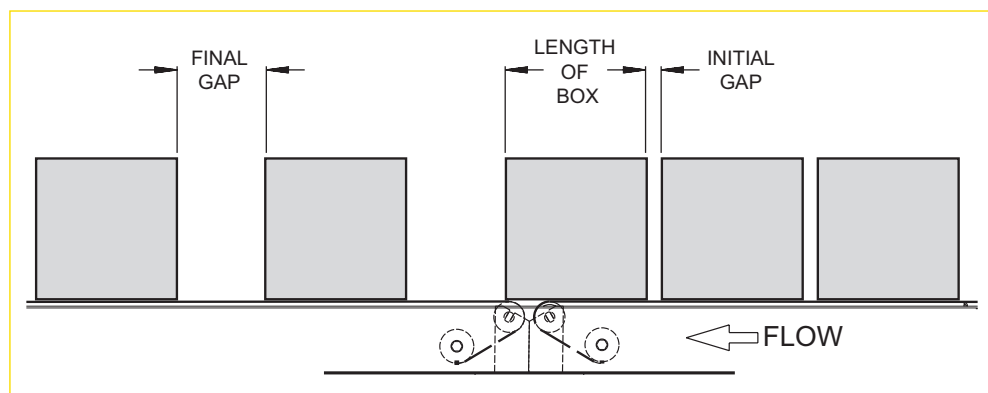
Note: As cartons pass from the infeed belt to the higher speed discharge belt, a gap is created between cartons according to the following formula:

## FORMULA

$$\frac{\text{Length of Box} + \text{Final Gap}}{\text{Length of Box} + \text{Initial Gap}} = \text{Speed Gap Ratio (SGR)}$$

Gaps are then measured and speed altered during release of cartons to create desired final gap or pitch. This process is required at each transition where there is a speed change.

$$\text{SGR} = \frac{\text{Discharge Belt Speed}}{\text{Infeed Belt Speed}}$$



## Optional Equipment

**FLOOR SUPPORTS** – MS Type floor supports are available with a wide range of adjustment. Specify top of belt or roller elevation. One support required at every bed joint and ends of conveyor. Holes in feet for lagging to floor. Knee braces recommended above MS-6 support.

**GUARD RAILS** – Adjustable Universal Channel Guard Rail, overlapping fixed channel (one direction).

**LENGTH** – Optional 10 ft. long bed section available with 40 in. bed segments.