



Weigh Belt Feeders

Model 970N – Open Construction Weigh Belt Feeder

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The Model 970N Open Construction Weigh Belt Feeder has a 6" – 36" belt width that is designed to meter various materials into a process at a designed feedrate with gravimetric precision.

The feeder belt speed is varied to deliver material from a supply device into a process at a desired rate. A weight signal output and speed signal output are supplied for closed-loop process control.



Materials of Construction

- 304 Stainless Steel on all metal components
- Surface finished to customer specifications
- All Welds Continuous and Ground Flush

Conveyor

- Two cantilevered Arms for Support
- Sealed for life pulley Bearings
- Double-Bladed Removable Belt Scraper

Standard Drive Components

- 0.25 HP DC, Washdown TENV Motor
- SCR Motor Speed Controller
- Lubricant-Free, Steel Reinforced, Polyurethane

Feed Rates

- Volumetric Throughput: 0.60 to 500 Ft³/Hr (0.17-14.115 M³/Hr.)

(Multiply Volumetric Rate by Bulk Density of Material to Compute Gravimetric Feed Rate)

Gravimetric Turndown

- 40:1 from Maximum Feedrate

Standard Power Requirement

- 115 Volts, 1 Phase, 60 Hertz
- 15 Amp Service

Ambient Temperature Limits

- 0° to 77° C (32° to 170° F)

Control

- [Genetix Touch Screen Process Controller](#)



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Drive Belt with Elastometer
Tensioner

Weight Sensing Device

- Direct Mounted Weigh Suspension (no moving parts)
- Easy, 3-point Alignment
- Single Strain Gauge Load Cell
 - Stainless Steel, Hermetically Sealed, Temperature and Pressure Compensated
 - 350 Ohm Bridge
 - 2 or 3 mV/V Signal
 - 10 to 15 Volts Excitation

Accuracy

- $\pm 0.25\%$

Installed Weight

- 505 Lbs. (315 Kg.) Standard

- Continuous Weighing or Rate-Control Feeding, Batching and Rate-Controlled Batching Applications
- Communication Interfaces
 - Merrick Serial Communications Protocol
 - Modbus ASCII, Modbus+
 - DeviceNET
 - DF1, DH-485, Data Highway+

Optional Accessories

- Calibration Roller Chain
- Maintenance Arms
- Hazardous Location Electrical Components
- AC Drive and Motor Components
- Special Materials of Construction
- Extended Infeed to Discharge Lengths
- Extended Height for Support Stand
- Clean in Place (Air or Water)