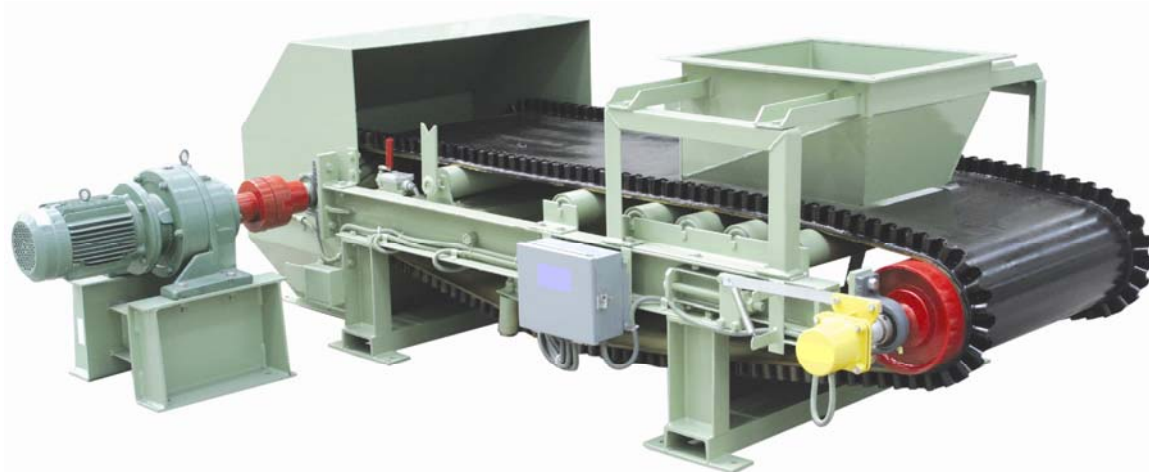


# Model F-54

## Volumetric Belt Feeder



**Model F-54 Volumetric Belt Feeder**

**The Bulk Pro Systems Model F-54 Volumetric Belt Feeder System is designed to feed industrial materials with consistency at high flow rates in challenging applications. Its heavy duty cantilevered design allows for easy belt removal. Either an I-beam or channel type frame and inverter duty motor will assure precise feeding of materials without the additional expense of weighing material gravimetrically. This system will provide more effective process control and allow you to efficiently operate your plant.**

### **Unique Features:**

- Heavy Duty Cantilevered design: allows for easy belt removal without having to deal with splices or cutting the belt.
- Customizable to your application: Bearings, motors, belting, scrapers, idlers, almost anything can be modified to meet your specification.
- Covered or uncovered construction.
- Hazardous or non-hazardous locations.
- Constant or variable speed drives.
- Optional drag chain or auger type clean-out devices.

The Bulk Pro Systems Model F-54 Volumetric Belt Feeder is designed for precise feeding of materials with high flow rates and bulk densities in your most demanding applications. The Model F-54 allows you to accurately control feed rates to your process where there is no need to gravimetrically weigh material. They are commonly used to replace vibratory and rotary type feeders where inconsistent flow rates are common. It can accommodate flow rates over 1000 TPH (816 MTPH) and belt loadings of 300 lb/ft (816 kg/m).

The Bulk Pro Systems Model F-54 Volumetric Belt Feeder incorporates high quality low wear parts into its design and can be customized to suit your application. It's cantilevered design allows for easy belt removal without splicing or cutting the belt. While operating there is very little noise or vibration associated with the feeder. Allowing operators to easily access the feeder environment while it is in operation. Minimal vibration provides more longevity to any additional mechanical or electrical equipment within the feeder area.

Be assured the Model F-54 Volumetric Belt Feeder will eliminate flushing, inconsistent flow rates and wear associated with vibratory, rotary and drum style volumetric feeders. The uniform feed will provide less wear on your crushers and ancillary equipment. These features along with quality construction will supply you with effective process control and consistency to the operation of your plant. The F-54 can help you automate your crushing system or reclaim system, supply more efficient process control and allow you to effectively operate your plant.

# SPECIFICATIONS

## Model F-54 Weigh Belt Feeder

- Belt widths: 18" (457mm) to 84" (2134mm), wider units available upon request.
- Length: 7' (2,134mm) to 20' (6096mm) centerline of inlet to centerline of discharge, longer lengths available upon request.
- Capacity: 1 TPH to 1500 TPH with 50 PCF material (0.9 MTPH to 816 MTPH with 801 kg/m<sup>3</sup> material)
- Belt Loading: 17.5 lb/ft to 300 lb/ft (26 kg/m to 447 kg/m)
- Belt Type: Endless polyester carcass with Grade 2 SBR covers, corrugated or vanner edging. Other belts available.
- Idlers: 4" - 6" (102mm - 152mm) diameter idlers rated CEMA C or D with sealed for life bearings. Other types available.
- Head Pulley : 14" (356mm) diameter with rubber lagging.
- Speed Reducer: Sumitomo or equal shaft mounted. Other models available.
- Frame Design: Heavy duty cantilevered frame for ease belt replacement. Frame design can facilitate belt removal from either the right or left hand side of feeder.

## Accessory Equipment:

- Safety Stop Switches
- Conveyor Misalignment Switches
- Plugged Chute Switches
- Variable Speed Drives
- Constant Speed Drives
- Class 1 and 2 Motors and J-boxes
- Drag Chain or Auger Clean-out
- AR or Stainless Steel Liners
- Top Covers
- Side Covers
- Bottom Covers
- Corrugated or Vanner Edge Belts
- Skirt Boards
- Under/Over Speed Switches

## Typical Applications

