

## Weigh Belt Feeder Product Guide

Low capacity-Low Bulk density,  
Medium Capacity & Heavy duty applications

- Belt widths range from 200 to 1200 mm
- Open construction
- Partially enclosed construction
- Fully enclosed construction



## Weigh Belt Feeder Product Range

<b>Low Capacity Weigh Belt Feeders</b>			
735 mm- 2000 mm (extendable to 3000mm) Inlet to Discharge			
<b>Model</b>	<b>Description Type</b>	<b>Typical Applications</b>	<b>Accuracy*</b>
<b>WT 735</b>	Open or enclosed models Belt width: 300 & 600 mm Capacities to 20 m <sup>3</sup> /hr	Food products, cereals, Powders, pharmaceuticals.	<b>±0.25-±0.5%</b>
<b>WTSL</b>	Open Construction, Belt width: 150 - 750 mm Capacities to 20 m <sup>3</sup> /hr.	Ultra-low bulk density materials: spices, powders, pharmaceuticals, seeds.	<b>±0.25-±0.5%</b>
<b>WT1200</b>	Open or enclosed models. Belt width: 300 - 1050 mm Capacity: up to 30 m <sup>3</sup> /hr	Food production, cereals Powders.	<b>±0.25-±0.5%</b>
<b>WT2000</b>	Open or enclosed models Belt width: 300 - 1200 mm Capacity: up to 30 m <sup>3</sup> /hr	Food, plaster production waste products, Powders, Detergents, Paper pulp.	<b>±0.25-±0.5%</b>
<b>Medium Capacity Weigh Belt Feeders</b>			
1450 mm- 1700 mm (extendable to 10,000mm) Inlet to Discharge			
<b>WT1450</b>	Open or enclosed models. Belt width: 300 - 1200 mm Capacity: up to 250 m <sup>3</sup> /hr	Product blending & process control: cement, grain, limestone, sand.	<b>± 0.5 -± 1 %</b>
<b>WT1700</b>	Open or enclosed models. Belt width: 300 - 1200 mm Capacity: up to 250 m <sup>3</sup> /hr	Clinker, cement, grain, mineral ore, limestone, Woodchips, pet food.	<b>± 0.5 -± 1 %</b>
<b>High Capacity, Heavy duty Weigh Belt Feeders</b>			
1825- 3000mm(extendable to 10000mm) Inlet to Discharge			
<b>WT3000</b>	Open, semi-enclosed. Belt width: 600 - 1600 mm Capacity: up to 450 m <sup>3</sup> /hr	Mining & extractive industry applications. Clinker, cement, coal, limestone.	<b>± 0.5 -± 1 %</b>
<b>WT1825</b>	Open or enclosed models. Belt width: 600 - 1500 mm Capacity up to 450 m <sup>3</sup> /hr	All mining and extractive industry applications. Mineral ore processing.	<b>± 0.5 -± 1 %</b>
<b>Special</b>	Designed for processes where standard designs are not suitable	Low or high temperature, Dual Inlet feed, CMA, BMA, Flavour applicators.	<b>± 0.5 -± 1 %</b>

## Low Capacity Weigh Belt Feeders

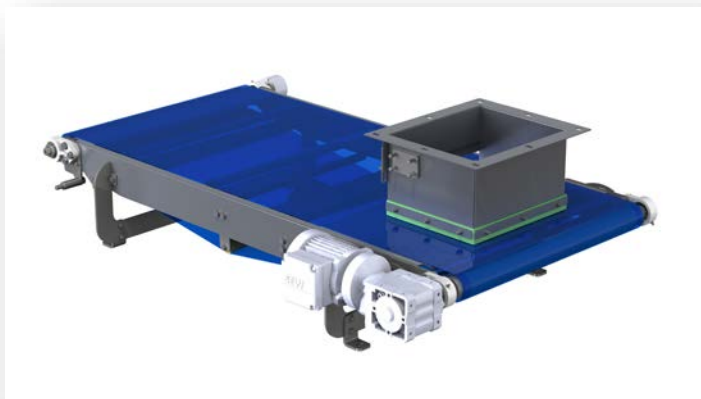
- Food processing, pharmaceuticals, powder, building materials, granular materials, plastics industries...
- All stainless steel construction
- Inlet to discharge of 735-2000mm
- Belt width: 200 to 1050mm
- Capacities up to 30 m<sup>3</sup>/hr



**Accuracies:**  $\pm 0.25\%$  to  $\pm 0.5\%$

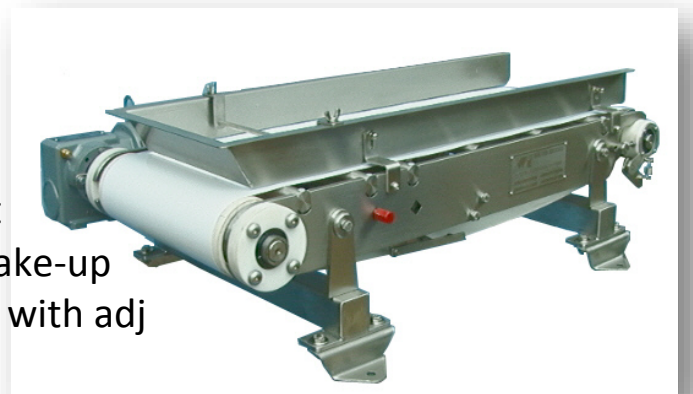
### **WTSL:** Low Capacity-Low bulk density

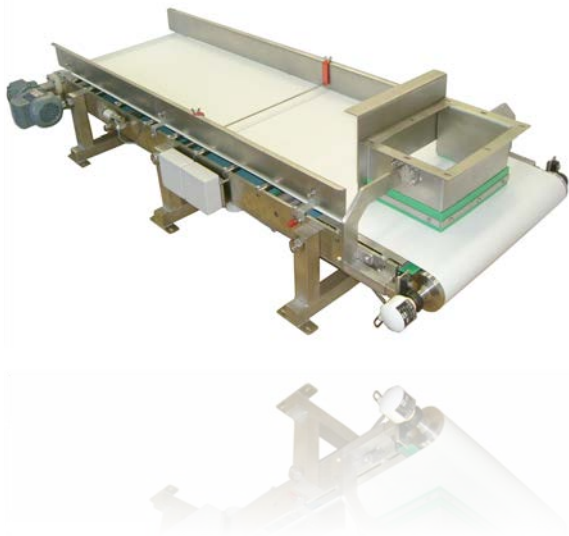
- 735-2000mm Inlet to Discharge centre
- Belt width 150mm - 600mm
- Capacities to 20 m<sup>3</sup> /hr.
- Open or enclosed construction
- Easy assembly/disassembly
- Over centre belt tension release
- Various motor mount positions.
- Easy belt removal/replacement



### **WT735**

- 735mm Inlet to Discharge centre
- Belt width: 300mm and 600mm
- Capacity: up to 20 m<sup>3</sup>/hour
- Open or enclosed construction
- Easy belt removal & replacement
- Automatic belt tracking Gravity take-up
- *Horseshoe inlet or full inlet chute with adj shear gate*
- Shaft mount gear motor





## **WT1200**

- 1200mm Inlet to Discharge centres
- Belt widths: 300- 1050mm
- Capacity up to 30 m<sup>3</sup> / hour
- Open or enclosed construction
- Easy belt removal & replacement
- Automatic belt tracking
- Gravity take-up
- *Horseshoe inlet* or *full inlet chute* with adjustable shear gate

## **WT2000**

2000mm Inlet to Discharge.  
 Belt widths: 300- 1050mm.  
 Capacity up to 30 m<sup>3</sup> / hour.  
 Open, semi or enclosed models.  
 Easy belt removal & replacement.  
 Automatic belt tracking, Gravity take-up.  
*Horseshoe inlet* or *full inlet chute*.  
 Adjustable shear gate.  
 Fully enclosed screw take-ups.



## **WT2000 (Special Models)**

- Up to 3000 Inlet to Discharge centres.
- Belt widths: 300mm- 1050mm.
- Capacity up to 30 m<sup>3</sup> / hour.
- Open or enclosed construction
- *Horseshoe inlet* or *full inlet chute*
- *Optional inlet control system*.
- Pre-feed solutions available.



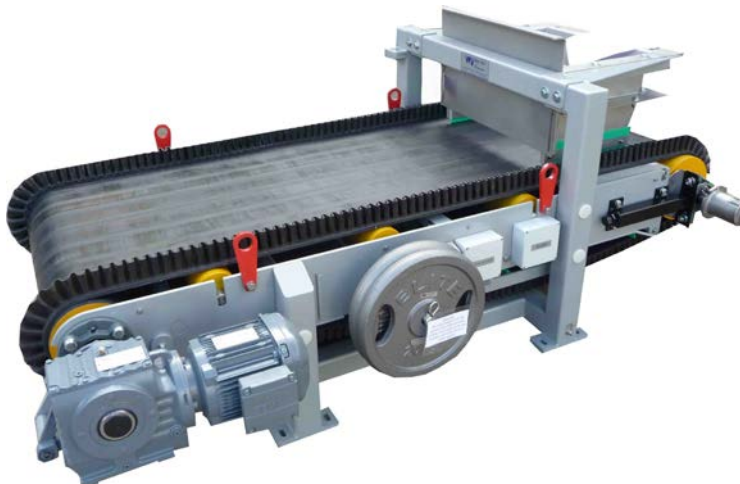
## Medium Capacity Weigh Belt Feeders.

Suitable for:  
Product blending and process control.

- 1450mm and 1700mm Inlet to Discharge
- Belt widths 300mm-1200mm.
- Capacities up to 250 m<sup>3</sup> / hr.
- Extended lengths to 10,000 mm
- Mild-steel or stainless-steel construction



Accuracies  $\pm 0.5\%$  to  $\pm 1.0\%*$



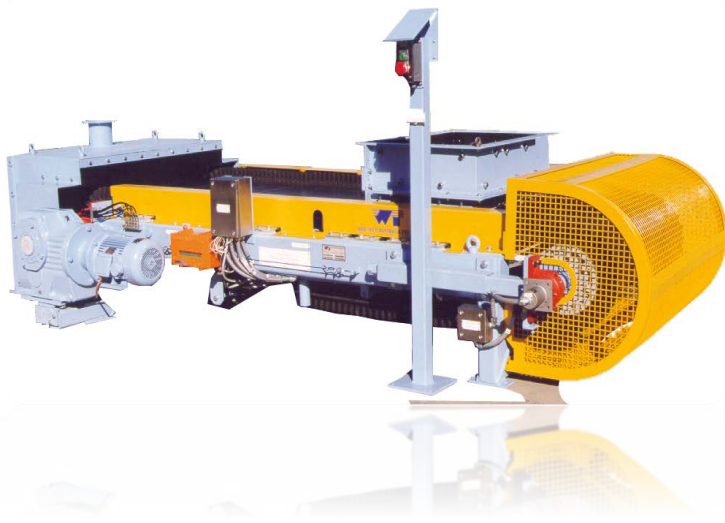
### WT1450

- 1450 Inlet to Discharge centres.
- Belt width 300mm - 1200mm.
- Open or enclosed construction.
- Fully enclosed screw take-ups.
- Over centre belt tension release.
- Easy belt removal/replacement

### WT1700

- 1700mm Inlet to Discharge centre
- Belt width: 300mm-1200 mm
- Open, partial or enclosed construction
- Fully enclosed screw take-ups.
- Easy belt removal & replacement
- Automatic belt tracking Gravity take-up
- Adjustable shear gate





## *High Capacity-Heavy Duty Weigh Feeders*

Suitable for:

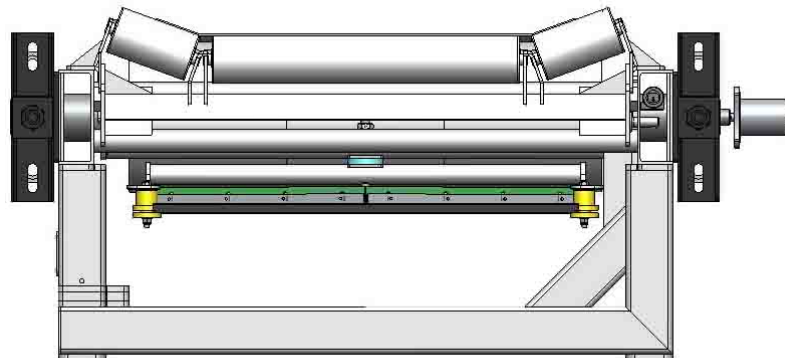
Product blending and process control.  
Mineral Ores, Clinker, Cement, Coal, Coke,.

- Open, partial or fully enclosed
- Fixed or variable speed
- Extra heavy duty construction.
- Belt widths of 600mm- 2000 mm.
- Capacities up to 450m<sup>3</sup>/hour.
- Extended lengths up to 10 metres

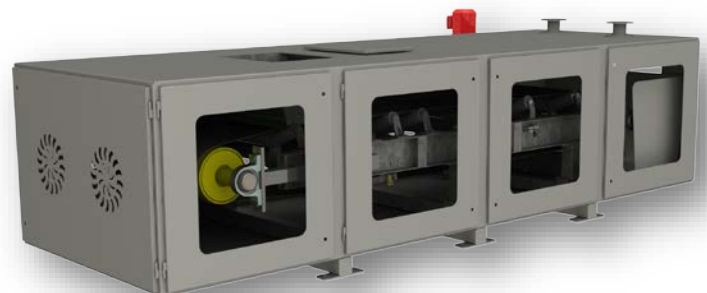
\*Accuracies  $\pm 0.5\%$  to  $\pm 1.0\%$

## *WT3000 Weigh Belt Feeder*

- 3000 Inlet to Discharge centres.
- Custom lengths up to 10 metres.
- Belt width 600mm - 2000mm.
- Troughed belt profile.
- Open, partial or enclosed dust tight.
- Fully enclosed screw take-ups.
- Over centre belt tension release.
- Various motor mount positions.



*Optional viewing windows*



## Specialty Weigh Belt Feeders

Designed for processes where standard designs are not suitable:

May include for:

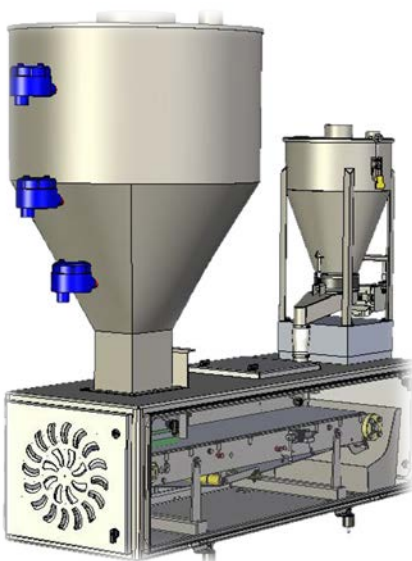
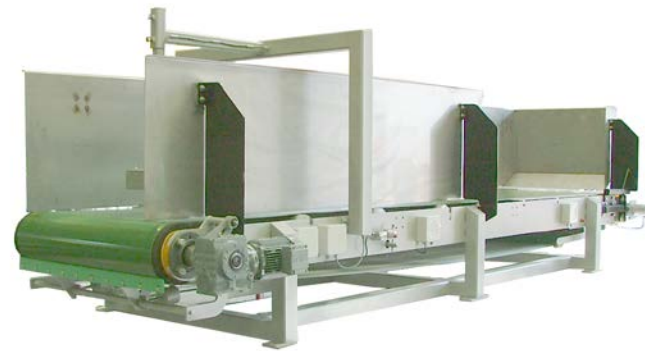
- Supply of Hoppers.
- Supply of Pre-Feeders.
- Design service with 3D drawings.

Customize Software/Firmware



## Applications

- Low capacity dosing.
- High temperature Lime.
- Dual Inlet feed points.
- CMA, BMA.
- Flavour and Spice applicators.
- Plastics
- Food topping or fibre: pizza topping, Cheese, wood panel chips.

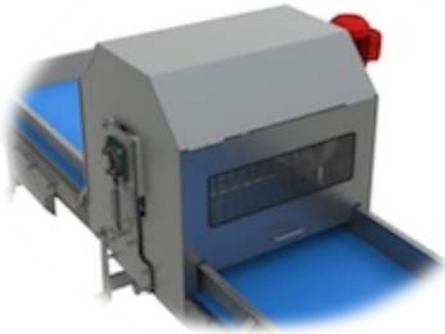


## Recycle Weigh Feeder



*Frozen or low temperature products  
(Low temperature Weigh Feeder)*

*Weigh Feeder & continuous Vibratory batching  
or additive system.*



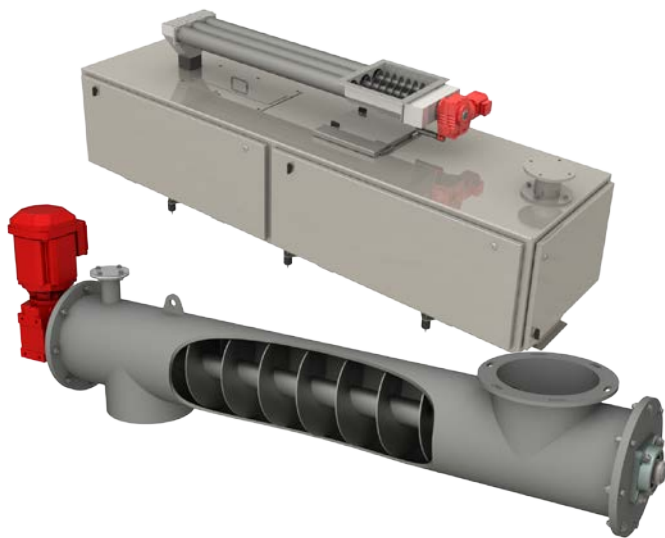
## ***Dynamic Pin Wheel shear gate Topping system***

Cheese applications, shredded products, IQF meats and vegetables.

- Reduces over or under topped product.
- Reduces manual check weighing.
- Compensates for variations in the bulk density of the topping product.
- Easy adjustment and operation.
- Total product containment
- Optional encapsulated Drum motor



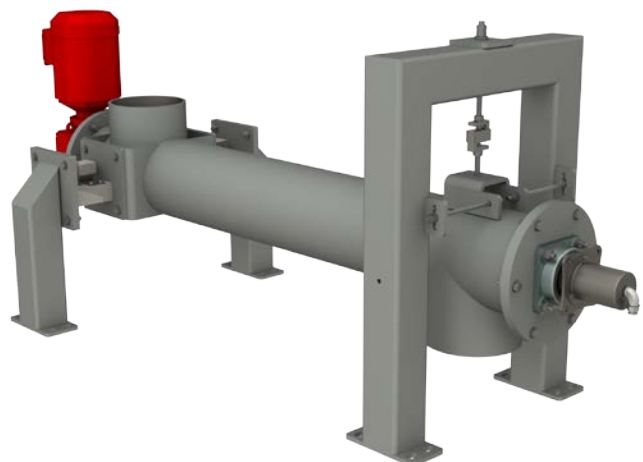
*Triple, double & single screw pre-feed.*



*Screw pre-feed is suitable for applications where the material must be contained*

## ***Screw Feeding & Weighing System***

- Can be fitted to an existing screw conveyor.
- Supplied as a screw conveyor or fully inclusive weighing system.
- Used in areas where material must be contained (powder & granules).
- Monitors flowrate.
- Controls & monitors Screw speed.
- Use as a pre-feed.



*Accuracies  $\pm 1.0\%$  to  $\pm 3.0\%$*



## **Micro Belt Feeder**

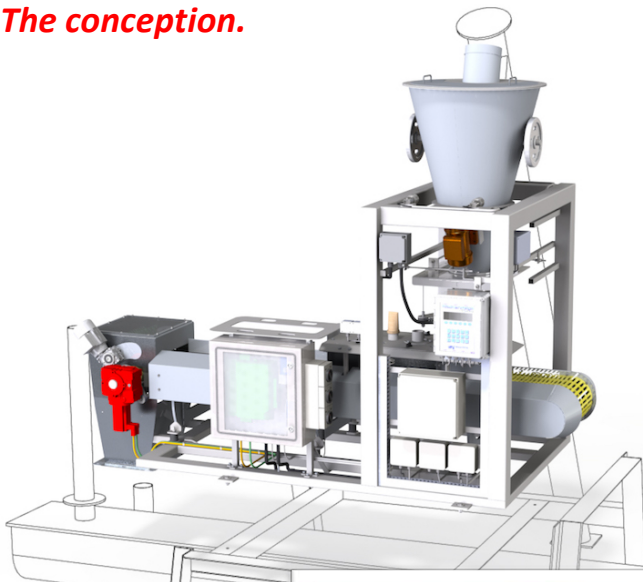


## **Low Capacity, Low bulk density Volumetric or Weigh Belt feeder**

Suitable for powders in the food chemical and pharmaceutical industries.

- Belt width 100 mm - 750mm.
- Capacities to 20 m<sup>3</sup> /hr.
- Available as a weigh belt feeder.
- Easy assembly/disassembly
- Over centre belt tension release
- Easy belt removal/replacement

## **The conception.**



## **The results.**





## ***Weigh Feeder Integrator/Controllers***

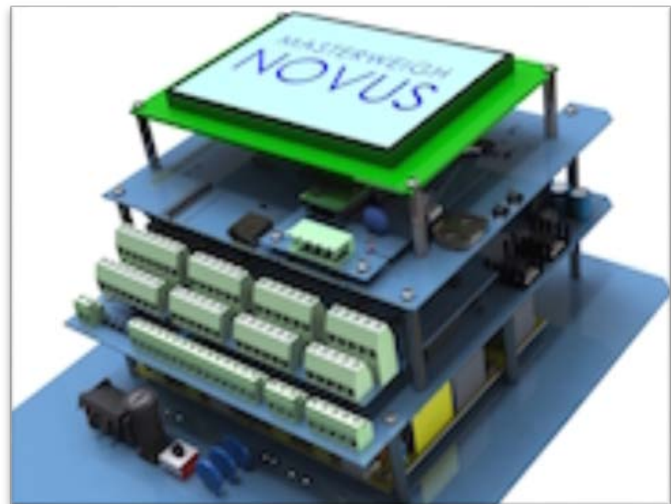
### ***Masterweigh NOVUS***

Modular, easy to use and field serviceable.

- Designed and made in Australia.
- Use with all brands of Continuous and dynamic weighing systems.
- Plug-in expansion cards and fieldbus communication options.
- Easy replacement and upgrade.
- In built 110/240 vac. Power supply.
- IP66/Nema4X enclosure.

### ***Novus Weigh Feeder Features***

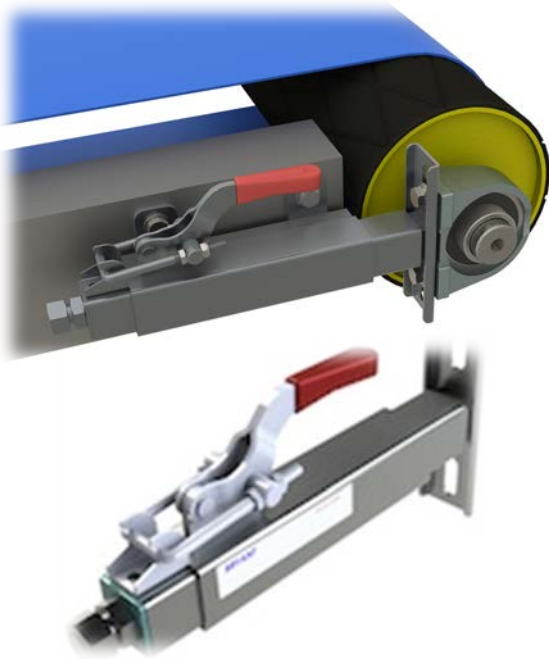
- 4-20mA Rate Output/PID Control Loop
- Current Loop Outputs/ Inputs.
- Mechanical Relay Digital Outputs.
- 4-20mA Setpoint Input.
- Solid State Relay, Remote Totaliser.
- Optical Isolated Digital Inputs.
- Load Cell A/D Channel.
- Load Cell Channels for Inlet Boot & Pre-Feed Hopper Weights.
- AUX 24VDC Power Supplies.



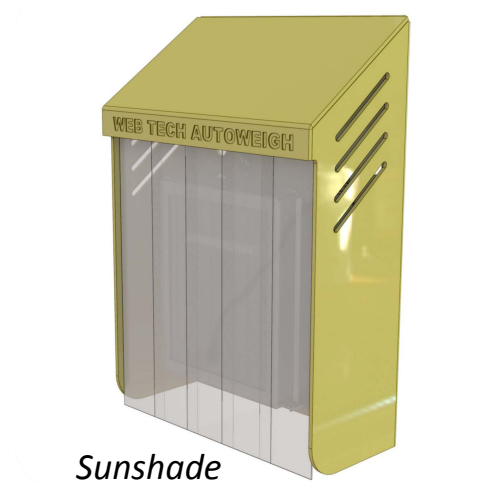
### ***Available controller options:***

- DeviceNet, EthernetTCP(Modbus) TCP/IP, and Profibus protocols.
- 12/24/48 VDC power supplies.
- 316 stainless steel enclosure.
- Sloping roof enclosure.
- Stainless steel or Polyester sunshade.
- DIP enclosures, Intrinsic Safety barriers

## Weigh Feeder Options and Assessories



*Optional Quick release "Telescopers"*



*Sunshade*



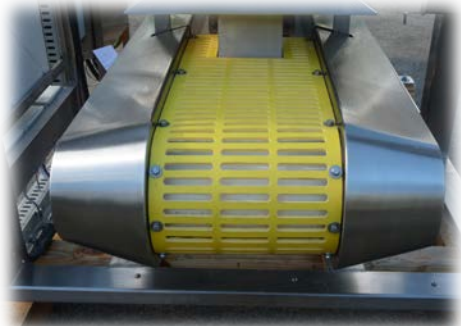
*Calibration  
Chains sized for  
each  
application*

*Floor scraper systems for 2000/1700 Enclosed*



*Semi enclosed & optional pulley Guarding*

*Removable lift over covers*



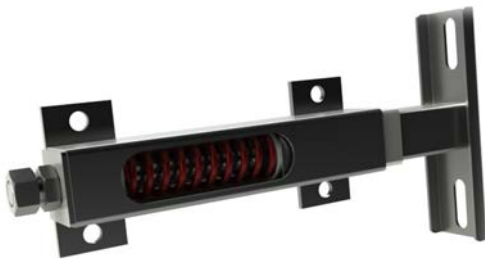
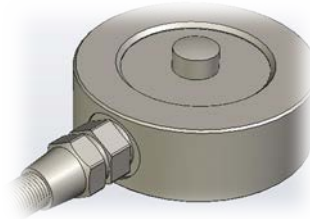
**We can also supply other associated products:**

## Products



- Weigh Belt feeders.
- Weigh Conveyors.
- Screw Conveyors.
- Conveyor idlers.
- Loss-In-Weight Feeders.
- Volumetric Screw Feeders.
- Volumetric Vibratory Feeders.
- Check weighing.
- Batch weighing.
- Bulk bag unloaders.

- Weight Indicators & Controllers.
- Industrial speed sensors.
- Metal Detectors.
- Load cells and Strain gauges.
- Bin Weighing & level Systems.



- **Telescop**er Conveyor take ups.
- Industrial scales, Bench scales.
- Aviation scales, Rail scales.
- Static Weighing.
- Test weights, Laboratory scales.
- Equipment retro-fits.
- Custom Solutions

- Material testing, Equipment repairs.
- Onsite Service and Commissioning.

*\*Accuracies stated are based on the application it was intended for. Variations can occur due to material, environmental & operating conditions.*

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