

**SIEMENS**



# Weighfeeders

**SITRANS WW200**

Operating Instructions

Edition

05/2015

## Safety Guidelines

Warning notices must be observed to ensure personal safety as well as that of others, and to protect the product and the connected equipment. These warning notices are accompanied by a clarification of the level of caution to be observed.

## Qualified Personnel

This device/system may only be set up and operated in conjunction with this manual. Qualified personnel are only authorized to install and operate this equipment in accordance with established safety practices and standards.

## Unit Repair and Excluded Liability:

- The user is responsible for all changes and repairs made to the device by the user or the user's agent.
- All new components are to be provided by Siemens.
- Restrict repair to faulty components only.
- Do not reuse faulty components.

**Warning:** Cardboard shipping package provides limited humidity and moisture protection. This product can only function properly and safely if it is correctly transported, stored, installed, set up, operated, and maintained.

**This product is intended for use in industrial areas. Operation of this equipment in a residential area may cause interference to several frequency based communications.**

**Note:** Always use product in accordance with specifications.

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# SIEMENS

## SITRANS

### Weighfeeders SITRANS WW200

#### Operating Instructions

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## Legal information

### Warning notice system

This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to property damage have no safety alert symbol. These notices shown below are graded according to the degree of danger.

#### DANGER

indicates that death or severe personal injury **will** result if proper precautions are not taken.

#### WARNING

indicates that death or severe personal injury **may** result if proper precautions are not taken.

#### CAUTION

indicates that minor personal injury can result if proper precautions are not taken.

#### NOTICE

indicates that property damage can result if proper precautions are not taken.

If more than one degree of danger is present, the warning notice representing the highest degree of danger will be used. A notice warning of injury to persons with a safety alert symbol may also include a warning relating to property damage.

### Qualified Personnel

The product/system described in this documentation may be operated only by **personnel qualified** for the specific task in accordance with the relevant documentation, in particular its warning notices and safety instructions. Qualified personnel are those who, based on their training and experience, are capable of identifying risks and avoiding potential hazards when working with these products/systems.

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# Introduction

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**Note**

The Siemens weighfeeder is to be used only in the manner outlined in this instruction manual.

---

## 1.1 The manual

This instruction manual covers the operation, installation, and maintenance of the Siemens weighfeeder. Specific information for your weighfeeder model is also included with the product such as testing documents.

Follow these operating instructions for quick, trouble-free installation, and maximum accuracy and reliability of your device.

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## Safety information

### 2.1 Safety and general precautions

** WARNING**

ALWAYS STOP the belt, lock-out, and/or place a "Do Not Energize" tag on the main disconnect before working on or around the weighfeeder.

** WARNING**

Always follow established safe operating practices when working on or around the weighfeeder, especially in wet environments and when adjacent to conductive steel mounting framework.

**Note**

A weighfeeder can be dangerous. Pinch points exist along the conveyor belt line.

**Secure the weighfeeder when:**

- replacing the belt
- working on or around the load cell(s)
- working on or around the speed sensor
- working on or around the drive components
- working on or around the motor



## Description

SITRANS WW200 is a low-to-medium capacity weighfeeder for minor ingredient additives.

The unique weigh system applies live load directly to two platform load cells. An adjustable mechanical shear gate profiles the material and fixes the correct material bed depth for a given material application. The belt speed can be automatically adjusted to attain the correct feed rate.

SITRANS WW200 comes with a weigh bridge, and speed sensor. An integrator and test weights are required to complete the system.

### 3.1 Weighfeeder operation

Weighfeeders weigh bulk material while it is conveyed. An accurate rate of flow and totalized weight measurement is received without interrupting the flow of material in process. A weighfeeder can also control the rate of flow of the conveyed product.

In-motion weighing requires accurate transmission of the product load to load cells. The resulting voltage signal corresponding to weight is transmitted to the integrator and becomes one of the two inputs required for integration.

Unlike static weighing, in-motion weighing integration requires a second input: a pulse signal proportional to the speed of the conveyor belt. Each belt speed sensor pulse represents a fixed distance of belt travel.

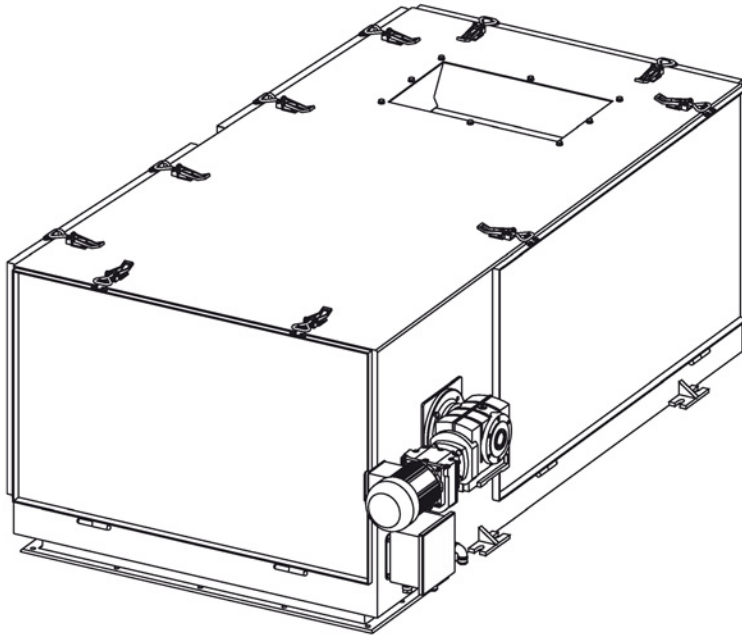
Since the force measured by the load cell is represented as weight per unit length, it can be multiplied by the distance of belt travel (one speed sensor pulse) to provide product weight for that segment of the belt ( $\text{lbs/ft} \times \text{ft} = \text{lbs}$ , or  $\text{kg/m} \times \text{m} = \text{kg}$ ).

Adding the samples provides total throughput weight of product across the scale. With proper scaling and calibration, the total weight can be displayed in kilograms, pounds, short tons, long tons, metric tons, or other appropriate units.

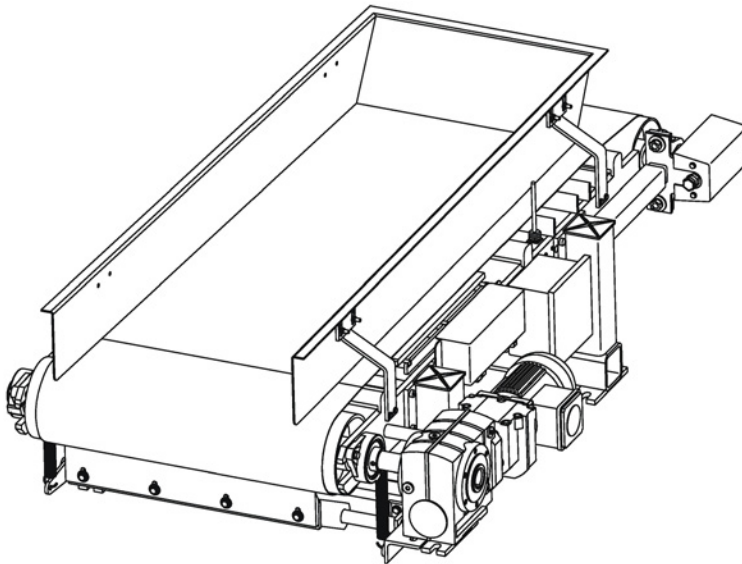
*Description*

*3.1 Weighfeeder operation*

**Enclosed unit**



**Open unit**



---

**Note**

When lifting the weighfeeder, connect to the structural frame, and follow local governing code for lifting/hoisting.

---

Perform a thorough and systematic inspection of containers immediately upon receipt of your Siemens weighfeeder. The containers are packed to separate each item and provide protection during shipping.

---

**Note**

Do not remove equipment from shipping crates or boxes until you check for possible shipping damage. Contact the carrier immediately if damage is noted.

---

Your weighfeeder has been designed, assembled, and factory tested for your specific application.

---

**Note**

- The frame of the weighfeeder needs to be grounded to ensure accurate signal processing to the integrator.
  - Do NOT remove the tagged load cell shipping bolt(s) until the installation is complete to prevent load cell damage.
  - Do NOT weld on or near the weighfeeder while the load cell is connected to the electronic integrator. Damage to the integrator may result if the load cell is not disconnected from the integrator.
  - Follow a scheduled, preventative maintenance program to ensure optimum performance and long equipment life.
- 

## 4.1 Installation steps

---

**Note**

- Only qualified personnel are authorized to install and operate this equipment. Installation shall be in accordance with local regulations, standards and established safety practices. Read and understand the instructions before installing, operating or maintaining the equipment.
  - Flexible in-feed connections are REQUIRED for all applications. Flexible discharge connections are also recommended.
-

4.1 Installation steps

---

1. Construct the necessary support framework to provide a sturdy, rigid base. Vibration isolators are recommended if the location is subject to moderate or heavy vibration.
2. Align the in-feed section of the weighfeeder with the discharge of the feed device. Prevent twisting or misalignment that could induce stress on the weighing section.
3. Install a gasket between the flanges for dust control.
4. Securely fasten the unit to the rigid, level structure constructed in step 1. Use a level for verification and shim as necessary. Prevent any twisting of the frame that may affect weighfeeder performance.

---

**Note**

The inlet and discharge of the weighfeeder will not support load.

---

5.

---

**Note**

If your system has a permanently lubricated gear motor, then disregard this step, and proceed directly to step 6.

---

Check the gear reducer oil level. For further details, see the gear reducer information under **Maintenance**.

6. A de-dust port may be provided at the discharge end of enclosed units. If no de-dust system is required, this port should be closed.
7. Connect the proper electric supply to the motor and/or motor controller. The AC or DC motor controller (if present) must be grounded to minimize noise to the electronic integrator. Refer to the applicable wiring diagram to make all electrical connections between the electronic integrator and the weighfeeder.

---

**Note**

Units with a plugged discharge switch should refer to the wiring diagram included in the CLS100 manual.

---

8. Remove only the tagged shipping bolt that is attached to the load cell. This bolt supports the weighbridge during transport and installation.

---

**Note**

DO NOT loosen or tighten the overload bolt—it has been factory set to minimize the possibility of load cell damage resulting from incidental overload.

---

9. Before starting the weighfeeder, make a final check to see that the conveyor belt is free of all tools and foreign objects, and that the infeed/skirtboards are not pinching against the belt.

## Calibrating

After the weighfeeder has been properly installed, calibration of the weighing system must be done in conjunction with the integrator. Refer to the integrator instruction manual for programming and calibration.

A test sheet has been provided with the weighfeeder detailing the entries used during factory calibration.

The calibration is initially done using the supplied test load data in the factory test sheets. Material tests are recommended to achieve maximum accuracy.

### 5.1 Test load

The test load value for the weighfeeder is given on the accompanying test sheet. To calculate the test load or to change it, refer to the integrator instruction manual.

### 5.2 Zero

Perform the zero calibration as described in the Calibration section of the integrator manual.

---

**Note**

This calibration should be at least three belt revolutions or five minutes, whichever is longer.

---

### 5.3 Span

The test load used in the calibration procedure is based on a set of factory sized test weights (2 or more). The weights ordered will not match this value exactly and the test load will need to be adjusted during initial calibration.

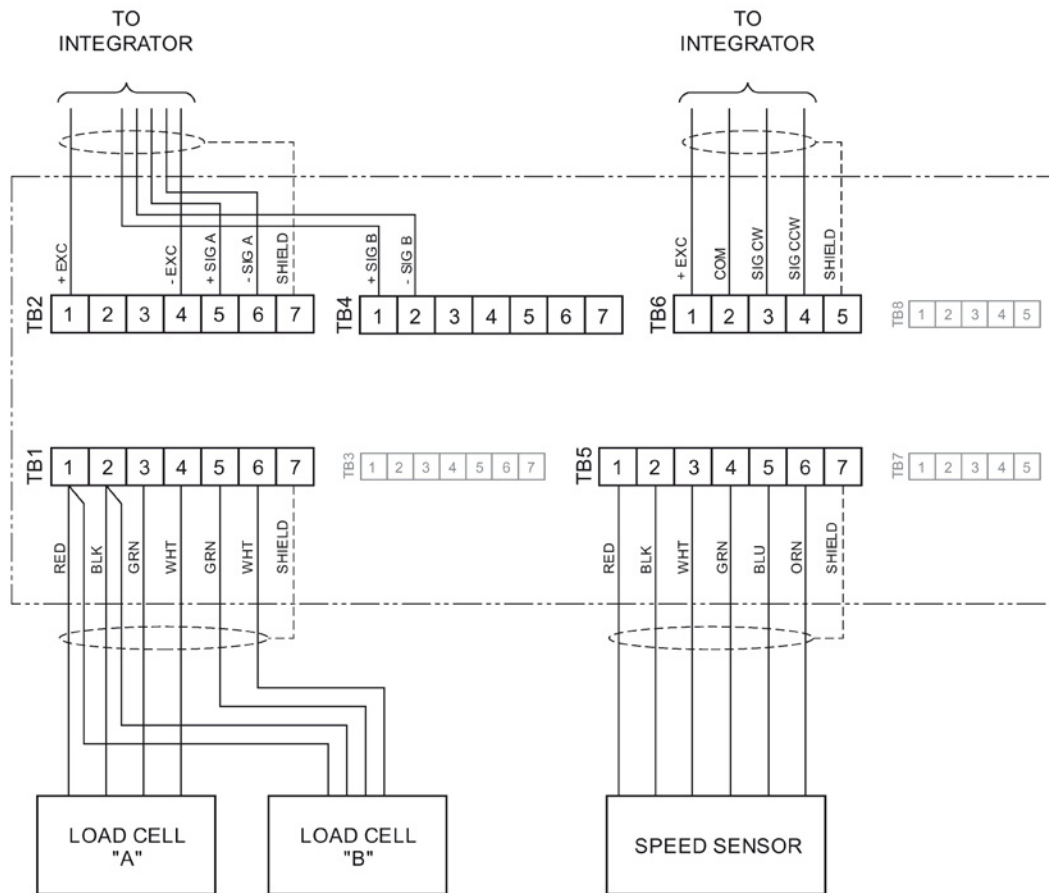
Perform the span calibration as described in the Calibration section of the integrator instruction manual.

After the span calibration has been completed, remove the test weights and store them.





## Connecting



### Note

#### Load cell sense lines

When sense lines (purple and blue) are included with a load cell, they must be terminated with EXC (+ to +, - to -) or cut and covered, but not wrapped together as this will short the cell.

SEN + = purple

SEN - = blue

### Note

Standard wiring shown, consult wiring diagrams for optional electrical connections. On hazardous rated versions the termination box may not be included with the weighfeeder, or may appear different than shown.



## Commissioning

Your weighfeeder has been factory run-in for a minimum of four hours; it should require little adjustment. However, periodic inspections of the belt tracking are recommended.

Start the belt and observe rotation.

 <b>WARNING</b>
--

Turn off and lock out all power sources before correcting rotation. On AC motors, reverse 2 of the 3 motor wires.
---

Start the belt again, and observe the machine as it is running. If the belt is not tracking correctly, or is travelling off center, see Belt tracking (Page 20).

### 7.1 Shear gate

---

**Note**

Disregard for horseshoe-style infeeds.

---

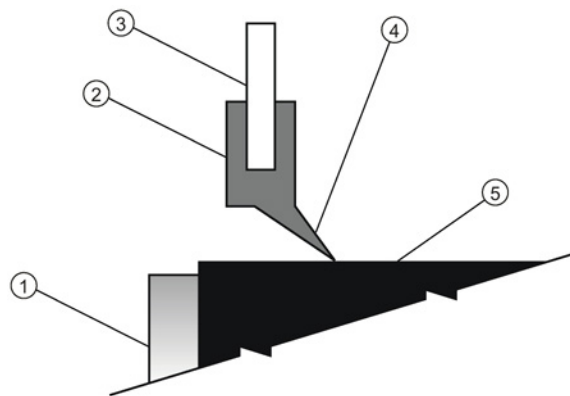
The shear gate on the inlet of the weighfeeder needs to be set to allow the maximum feed rate capacity required. Consult your Siemens representative if feed rate changes are required.

## 7.2 Skirtboards

The skirtboards have been factory set to proper specifications. Note that near the inlet, the skirtboards are very close to the belt. However, toward the discharge end of the weighfeeder, the skirtboards are 3 to 5 mm (1/8 to 3/16") higher off the belt. This relieving effect minimizes the possibility of material becoming lodged between the skirtboard and the belt.

Periodic adjustments of the skirtboards should not be necessary but if adjustment is required, set the skirtboards at the heights described above.

Your system has been supplied with soft PVC seal strips if the product being conveyed is a fine powder and can fluidize, or is dusty. Position the seal strips on the belt as shown. If these strips are not required, or if the material being conveyed is prone to sticking, clumping, or stacking on the edge of the strip, the strips should be removed.



- ① Pulley
- ② Seal strip
- ③ Skirtboard

- ④ Do not force seal strip against belt
- ⑤ Belt

## 7.3 Changing the conveyor belt

**⚠ WARNING**

ALWAYS STOP the belt, lock-out, and/or place a "Do Not Energize" tag on the main disconnect before working on or around the weighfeeder.

Depending on the size of the weighfeeder, several personnel may be required to remove and re-install the belt.

1. On enclosed models, open and remove the access and non-access side panels.
2. Mark the current position of the telescoper for reference. This will be a reference when you re-install the belt. Loosen the telescopers to remove tension from the belt.
3. Remove support posts on the belt change side, and the belt side roller below the belt plow. Remove tension from the belt scraper, and remove all other components for belt changing.

**Note**

Skirtboard removal or adjustment is not normally necessary to perform belt removal or installation, nor is it recommended. However, if the belt has a corrugated sidewall this will be required.

4. From the access side of the weighfeeder at the discharge end, grab the edge of the belt and gently pull it over the side rail, making sure that the leading edge of the belt does not catch on any components.
5. Repeat the previous step on the inlet end of the weighfeeder. Again, be careful not to cut or scrape the belt on any components.
6. When both ends have been pulled to the outside of the side rail, grab the belt in the middle and slowly remove it. As you are removing the belt, mark the direction the belt was rotating, as this will allow you to re-install it in the same direction. Take care when storing the belt to prevent kinks or other damage.
7. With the belt removed, inspect the weighfeeder for material buildup, lodged particles, and signs of wear, paying close attention to the weighing section. Take care when cleaning the weighing section, as 6 kg (15 lbs) (or less) pressure placed on the weighbridge could cause load cell damage.
8. Reverse steps to re-install the same belt.

**Note**

- On a new replacement belt, there may be an arrow printed on the underside of the belt. This arrow indicates what direction the belt should rotate when it is installed. If there is no arrow, rotation of the belt may be in either direction. Whenever a new belt is installed, perform the belt tracking procedure (see Belt tracking (Page 20)).
- New belts should be un-rolled and allowed to relieve any kinks or bends: this will help tracking and weighing accuracy.

## 7.4 Belt tension

The ideal belt tension for any weighfeeder is just enough tension to prevent the belt from slipping on the drive pulley. The tension minimizes the effect of the belt on weighing accuracy. Often, the sole cause of an inaccurate weighfeeder is excessive belt tension.

Specific belt tension cannot be given because the weighfeeder could be mounted in various applications. As a general guideline, the bottom of the belt should droop 1-2 inches over the length of the weighfeeder. This is only an approximate specification, as your application may require more or less tension due to varying belt loading and other operating characteristics.

## 7.5 Belt tracking

Before attempting to track the belt, be sure:

- belt scraper is in place
- belt tension is near guidelines suggested in Belt tension (Page 20).
- weighfeeder is level and true
- installation has not warped or twisted the frame
- head and tail pulley are square to the frame and parallel to each other
- plow is contacting underside of the belt, belt is engaged with guide rollers.

---

### Note

- Do not adjust belt tracking rollers, they have been factory set.
  - Belt plow blades are adjustable vertically for proper contact to the belt.
- 

Turn on the weighfeeder and observe its tracking line on the head and tail pulleys. If the belt is drifting toward one side of the weighfeeder, then adjust the telescoper on either side of the machine (see Telescoper adjustment (Page 21)).

## 7.6 Telescoper adjustment

1. Determine which side of the weighfeeder you want to adjust. Compressing the telescoper on one side will cause the belt to drift toward that side of the weighfeeder. Conversely, extending the telescoper will cause the belt to drift away from that side of the weighfeeder.
2. Loosen the jam nut.
3. Turn the adjusting screw in the desired direction. Often, only a small amount of adjustment (1 turn or less) will be required.
4. Observe the results of the adjustment and then readjust, if necessary.  
Steps 2 and 3 may need to be repeated to obtain perfect belt tracking.

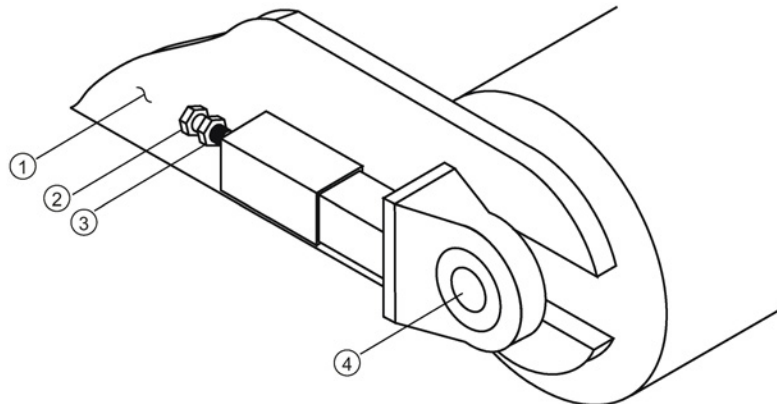
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### Note

As you extend or compress the telescoper, you may be changing the belt tension. If belt tension has increased (or decreased) considerably while attempting to track the belt, then compress (or extend) both telescopers and complete the belt tracking process again. To avoid this problem, extend one telescoper while compressing the other to obtain proper belt tracking.

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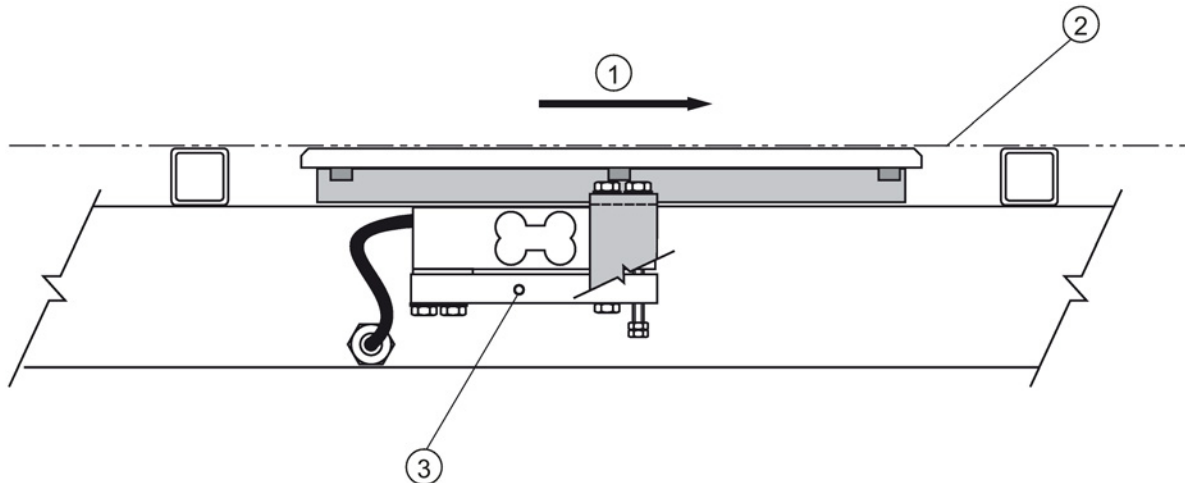
5. Re-tighten the jam nut located on the telescoper to maintain the new telescoper position after completing the tracking procedure.
6. If you are having problems tracking the belt, consult your Siemens representative. Common causes of belt tracking problems are: uneven or improperly distributed product loading, twisted frame, or product buildup on head or tail pulleys.



- |   |                 |   |              |
|---|-----------------|---|--------------|
| ① | Side rail       | ③ | Jam nut      |
| ② | Adjusting screw | ④ | Driven shaft |

## 7.7 Weigh deck alignment

Precise deck alignment is very important to achieve maximum accuracy of the weighing system. A misaligned deck will result in unwanted forces being applied in the weighing area, causing calibration and measurement errors. Verify that the weigh deck is aligned properly. Use a spirit level to level the load cells.



① Belt direction

③ Load cell base locking screws

② Alignment string/wire

Run string to ensure alignment is  $+1/32"$  ( $+0.8$  mm) to  $0"$  ( $0$  mm) aligned with approach and retreat slider bars.

## 7.8 Quick startup overview

1. Verify that the weighfeeder is installed properly as described in Installing (Page 11). Verify that the belt is tracking and the shear gate (if used) is properly set.
2. Verify that the weighfeeder, integrator/controller, and variable speed drive (AC or DC, if present) are all properly wired.
3. Refer to the supplied integrator/controller information for calibration and configuration information.

## 7.9 Load cell replacement

### **⚠ WARNING**

ALWAYS STOP the belt, lock-out, and/or place a "Do Not Energize" tag on the main disconnect before working on or around the weighfeeder.

If a load cell on the weighfeeder has been damaged and is not functioning, or if you are changing the capacity, you will need to replace one or all load cells.



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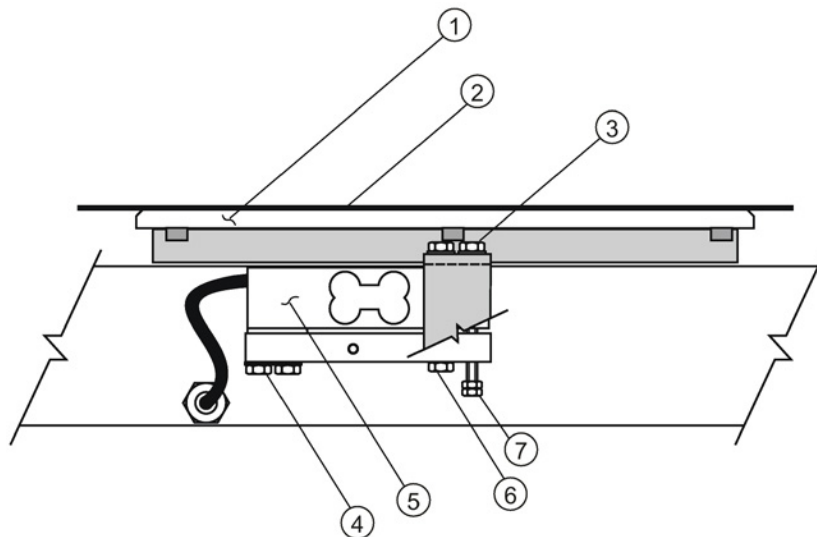
**Note**

Please read and understand all of the instructions before proceeding with the replacement. Contact your Siemens representative for assistance if you have any questions or problems.

---

### 7.9.1 Removing old load cell

1. Confirm the new replacement load cell is correct and functional. Using a digital volt meter or ohm meter, verify that the resistance of the new load cell matches the resistance printed on the specification sheet that comes with the load cell. If the resistances do not match, the load cell may be damaged. Consult your Siemens representative.
2. Disconnect the load cell being replaced from the junction box. Verify that the load cell is connected according to the interwiring diagram supplied with this manual. Disconnect the load cell from the load cell junction box. Free the load cell cable from the weighfeeder so it is hanging free from the load cell.
3. Support the scale deck from below or above, and remove the two top/front load cell mounting bolts. Be careful not to move the deck as it is still attached to the load cell on the other side of the weighfeeder.
4. Remove the two bottom load cell mounting bolts.
5. Remove the load cell off the weighfeeder.



- |   |                        |   |               |
|---|------------------------|---|---------------|
| ① | Weigh deck             | ⑤ | Load cell     |
| ② | Belt                   | ⑥ | Shipping bolt |
| ③ | Top load cell mount    | ⑦ | Overload bolt |
| ④ | Bottom load cell mount |   |               |

---

**Note**

Load cell may appear different than shown.

---

## 7.9.2 Installing new load cell

1. Slide the new load cell into position.
2. Install the two bottom load cell mounting bolts and tighten them by hand. The load cell should now be resting against the overload bolt.
3. Install the two top/front load cell mounting bolts. Tighten them by hand.
4. Start with the bottom load cell mounting bolts and tighten them to the torque value indicated in the load cell instructions. Now tighten the two top/front load cell mounting bolts to the same torque value.
5. Route the load cell cable to the junction box and connect the load cell according to the supplied interwiring diagram.

Repeat steps for other load cells if necessary.

---

### Note

Once the load cell has been replaced, check the weigh deck alignment with the approach and retreat slider bars.

Alignment should be +1/32" (+0.8 mm) to 0" (0 mm).

Both load cells should be within 1 mV of each other when compared, otherwise mechanical interference is affecting the output signal. Check load cells to ensure they are level and parallel to each other and the frame.

---

6. Perform a load cell balancing procedure as described in the integrator instruction manual.

## 7.9.3 Recalibration

1. Power up the integrator and using the appropriate integrator menu, verify that the new load cell(s) are operating correctly.
2. Zero calibrate the unit using the integrator manual for reference. Record zero calibration procedure results.
3. Span calibrate the unit using the integrator manual for reference. Record span calibration procedure results.
4. Re-check zero calibration. Run another zero calibration and record the results. Verify that the zero repeated to the same value recorded in step 2.
5. Confirm calibration with material test as described in the integrator manual, if possible, before placing the weighfeeder back in operation.

 **WARNING**

ALWAYS STOP the belt, lock-out, and/or place a "Do Not Energize" tag on the main disconnect before working on or around the weighfeeder.

## 8.1 Preventative maintenance

The maintenance schedule below is recommended to maintain top performance and accuracy of the system. Weighfeeders mounted in severe weather or dusty conditions may require a more rigorous maintenance schedule.

Make sure the weigh deck is aligned with the approach and retreat sections for accurate weighing. Periodic measurement to verify alignment is recommended.

### 8.1.1 Recommended preventative maintenance schedule

Item	Required Maintenance	Frequency	Comments
Weigh section	Blow or brush off any material building up on load cell area.	Weekly	More frequently in dirty environments
Belt tracking	Visually inspect to assure that conveyer belt remains trained.	Daily	-----
Integrator controller	Span check	Monthly	Use calibration weights
Calibration span check	Verify belt zero	Daily, at least once/week	See Calibration section of Integrator manual
Bearings	Inspect and lubricate as required	Every 10,000 hours	Use application specific grade grease (see notes below)
Belt	Check for holes, wearing, frays, or other damage	Weekly	Replace as required
Belt side rollers, scraper, plow	Check for wear and proper belt contact	Weekly	Clean and replace as required
Infeed seal strips	Check for holes, wearing, frays or other damage	Weekly	Replace as required
Pulleys	Check lagging for wear	Every 10,000 hours	Inspect and replace as necessary

#### Note

- In extraordinary climatic or environmental conditions, special lubricants may be required.
- In corrosive environments, more frequent lubrication is required to purge contaminants.

## 8.2 General maintenance

The equipment should be cleaned periodically and any excess accumulation of product should be removed to minimize potential damage to the mechanical components and scale accuracy.

Abrasions, cuts, or ragged edges on the belt will create performance problems. Replace the belt if it becomes ragged or torn.

## 8.3 Lubrication

All head and tail pulley bearings are pre-greased at the factory. These bearings should be field greased periodically. Lubrication frequency may vary; dry, dusty applications may warrant weekly greasing, while less harsh applications may need greasing only once or twice a year. Do not exceed 10,000 hours of operation between re-greasing.

If there is a gear reducer supplied with your weighfeeder, it has an initial break-in period. After the first 250 hours of operation, the gear box(es) should be drained and refilled to the proper level(s). Subsequent oil changes should be done every 2500 hours. See the gear reducer manual for further details.

If there is a gear motor (motor and reducer all in one housing) supplied with your unit, it is permanently lubricated. No lubrication is necessary.

## 8.4 Weighfeeder storage recommendations

If a weighfeeder will be stored for a period of three months or more, follow the guidelines below.

### 8.4.1 Load cell care

The load cell shipping bolt(s) should be installed whenever the weighfeeder is moved as an extra safety measure during the storage period. Do not forget to remove the shipping bolt(s) upon re-installation.

### 8.4.2 Gear reducer

Uncouple the gear reducer from the weighfeeder drive shaft and the motor and grease all shaft surfaces liberally with an appropriate lubricant to help with reassembly.

In addition, fill the gear reducer with an appropriate gear oil to prevent oxidation. When the equipment is re-installed, completely drain this gear oil and then refill the reducer to the appropriate level.

### 8.4.3 Electrical

To prevent oxidation, place a desiccant or moisture removal material in all electrical junction boxes and component cabinets. This includes the load cell junction box, the integrator cabinet, and the motor speed controller enclosure (if present).

#### **8.4.4 Lubrication**

Grease all greasable points.

#### **8.4.5 Belt care**

Reduce belt tension to a minimum to prevent belt damage and re-adjust belt tension at re-installation.

---

##### **Note**

Do NOT store the weighfeeder in direct sunlight, as this will cause premature breakdown of the belt.

---

# Troubleshooting

## 9.1 Mechanical troubleshooting

Review mechanical installation procedures and perform a thorough visual inspection to be sure the operating error is caused by a mechanical problem. Then review and check the common problems listed below.

---

### Note

If you have difficulty determining the cause of the problem, contact your Siemens representative. Be sure to have the Model Number and Serial Number of your system and all of the calibration and setup parameters available before calling.

---

### 9.1.1 Zero Drift, non-repeatability, or non-linearity

Check for the following conditions:

- weigh deck alignment  
Verify weigh deck alignment is as accurate as possible. Improper alignment is the most common mechanical problem affecting scale accuracy. Contact your Siemens representative if you find a problem here.

---

### Note

Alignment should be +1/32" (+0.8 mm) to 0" (0 mm) aligned with approach and retreat slider bars.

---

- material buildup on weigh section or pulleys, or between the weigh deck and weighfeeder frame
- belt mis-tracking
- belt too tight
- load cell bolts loose
- speed sensor, pulley, or idler slippage
- load cell shipping bolt (tagged) never removed
- head or tail pulley too high or low, relative to idler/slider bar alignment. The head and tail pulleys should be at least 1/8" lower than the approach and retreat slider bars





## Technical data

### 10.1 Specifications

<b>Accuracy</b>	± 0.5%	
	<i>Accuracy subject to: On factory approved installations, the weighfeeder system's totalized weight will be within the specified accuracy when compared to a known weighed material test sample. The test rate must be within the specified range of the design capacity, and held constant for the duration of the test. The minimum material test sample must be equivalent to a sample obtained at the test flow rate for three revolutions of the belt, or at least ten minutes running time, whichever is greater.</i>	
<b>Operating range</b>	10 to 100%	
<b>Capacity</b>	45 kg/h ... 100 t/h (100 lbs/h ... 110 STPH)	
<b>Belt speed</b>	0.005 ... 0.36 m/s (1 ... 70 fpm)	
<b>Operating temperature</b>	-10 to +40 °C (+14 to +104 °F)	
<b>Material temperature</b>	-40 to +125 °C (-40 to +257 °F)	
<b>Construction materials</b>	Mild steel or stainless steel [304 (1.4301) or 316 (1.4401)]	
<b>Load cells</b>	Two single point, nickel-plated platform IP66 (standard)	
	17-4 PH (1.4568) stainless steel construction for corrosive and washdown environments (optional) IP68	
	Non-linearity:	± 0.03%
	Non-repeatability:	± 0.02%
<b>Speed sensor</b>	Optical encoder, driven pulley mounted	
	C-flange mounted magnetic pulse generator, adapted between motor flange and reducer input flange (optional)	
<b>Framework</b>	Precision machined, stainless or mild steel	
	Cantilevered design for easy belt replacement	
<b>Pulleys</b>	152 mm (6") diameter with 6 mm (¼") neoprene lagging for maximum traction	
<b>Belting</b>	2-ply Polyester carcass with polyurethane top cover and static control with vulcanised endless finger splice for maximum weighing consistency (standard)	
	Variety of different belts and flanges for specific applications (optional)	
<b>Belt support</b>	Vertical stainless steel flatbars eliminate material buildup	
<b>Belt tension</b>	Screw type, telescoper module with 150 mm (6") travel (mild or stainless steel)	
<b>Belt cleaning</b>	UHMW blade type with spring tensioning at head pulley for cleaning product side of belt	
	UHMW blade type return plow at tail pulley	
	Optional belt cleaning brush on product side of belt	

Technical data

10.1 Specifications

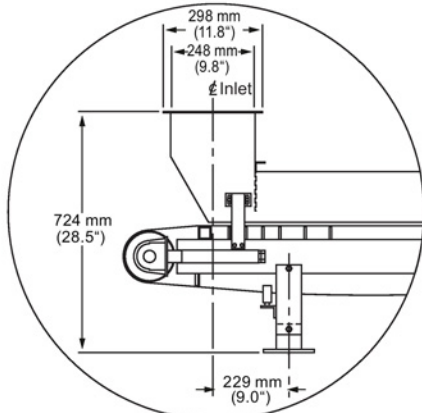
<b>Drive</b>	0.19 kW (0.25 HP) min., TEFC, or TENV 208/230/380/460/575 V AC, three phase with shaft mounted gear reducer
	Larger/other motor sizes and voltages available
<b>Shipping weight</b>	280 kg (617 lbs) minimum
<b>Approvals</b>	For use in hazardous rated areas, select hazardous location options Note that only electrical components are rated and entire weighfeeder is not.
	Stainless steel options meet FDA and USDA requirements for food processing.

**Note**

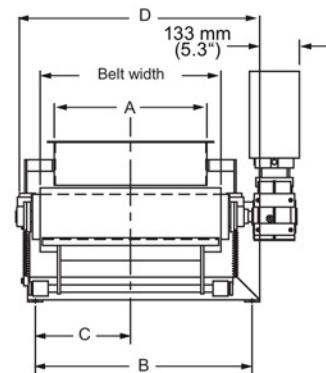
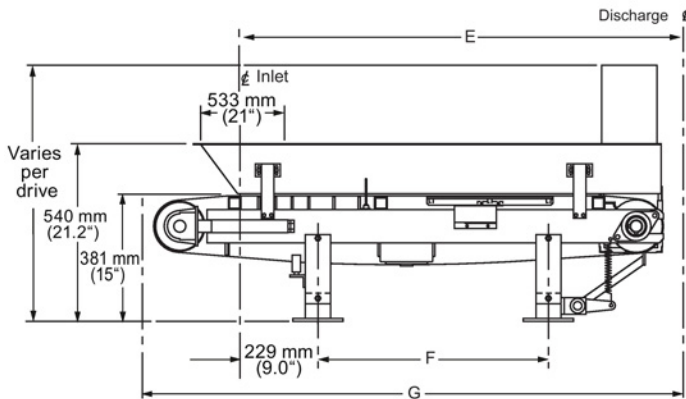
Skirtboard seal stripping is not FDA or USDA approved material, and should be removed for critical food applications.

## Dimension drawings

### 11.1 Open unit



Shear gate infeed version

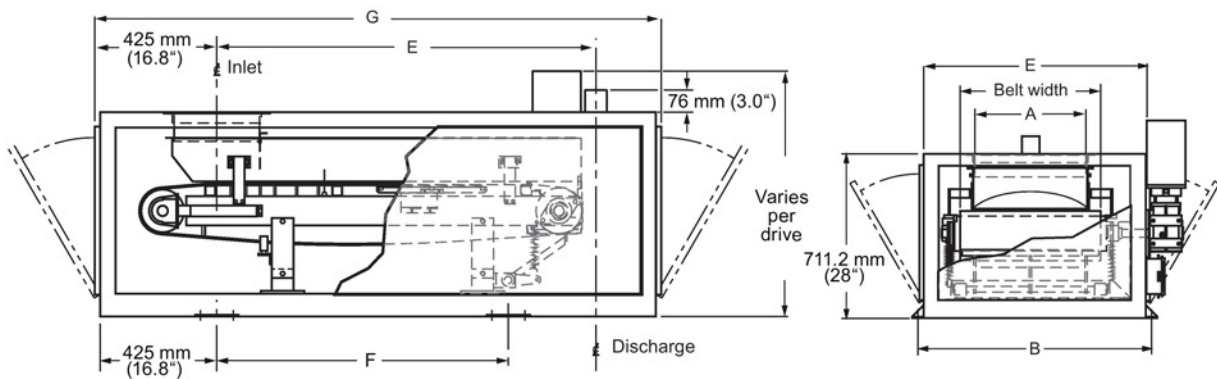


#### Open unit dimensions

Belt Width	A	B	C	D	Weight (STD)
305 mm (12")	203 mm (8")	425 mm (16.8")	257 mm (10.1")	516 mm (20.3")	272 kg (600 lb)
457 mm (18")	356 mm (14")	578 mm (22.8")	333 mm (13.1")	668 mm (26.3")	318 kg (700 lb)
610 mm (24")	508 mm (20")	730 mm (28.8")	409 mm (16.1")	820 mm (32.3")	363 kg (800 lb)
762 mm (30")	660 mm (26")	883 mm (34.8")	486 mm (19.1")	973 mm (38.3")	408 kg (900 lb)
915 mm (36")	813 mm (32")	1035 mm (40.8")	562 mm (22.1")	1125 mm (44.3")	453 kg (1000 lb)
1067 mm (42")	965 mm (38")	1187 mm (46.8")	638 mm (25.1")	1278 mm (50.3")	499 kg (1100 lb)
1219 mm (48")	1118 mm (44")	1340 mm (52.8")	714 mm (28.1")	1430 mm (56.3")	544 kg (1200 lb)

<b>Length adder</b>	<b>E</b>	<b>F</b>	<b>G</b>
STD	1321 mm (52")	698 mm (27.5")	1676 mm (66")
203 mm (8")	1524 mm (60")	902 mm (35.5")	1880 mm (74")
406 mm (16")	1727 mm (68")	1105 mm (43.5")	2083 mm (82")
610 mm (24")	1930 mm (76")	1308 mm (51.5")	2286 mm (90")
813 mm (32")	2134 mm (84")	1511 mm (59.5")	2489 mm (98")

## 11.2 Enclosed unit



Enclosed unit dimensions

Belt Width	A	B	C	Weight (STD)
305 mm (12")	203 mm (8")	737 mm (29")	686 mm (27")	522 kg (1150 lb)
457 mm (18")	356 mm (14")	864 mm (89")	838 mm (33")	612 kg (1350 lb)
610 mm (24")	508 mm (20")	1041 mm (41")	991 mm (39")	703 kg (1550 lb)
762 mm (30")	660 mm (26")	1194 mm (47")	1143 mm (45")	794 kg (1750 lb)
915 mm (36")	813 mm (32")	1346 mm (53")	1295 mm (51")	885 kg (1950 lb)
1067 mm (42")	965 mm (38")	1499 mm (59")	1448 mm (57")	975 kg (2150 lb)
1219 mm (48")	1118 mm (44")	1651 mm (65")	1600 mm (63")	1066 kg (2350 lb)

Length adder	E	F	G
STD	1321 mm (52")	1016 mm (40")	1975 mm (77.75")
203 mm (8")	1524 mm (60")	1219 mm (48")	2178 mm (85.75")
406 mm (16")	1727 mm (68")	1422 mm (56")	2381 mm (93.75")
610 mm (24")	1930 mm (76")	1626 mm (64")	2584 mm (101.75")
813 mm (32")	2134 mm (84")	1778 mm (70")	2788 mm (107.75")



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## For more information

[www.siemens.com/level](http://www.siemens.com/level)

[www.siemens.com/weighing](http://www.siemens.com/weighing)

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