

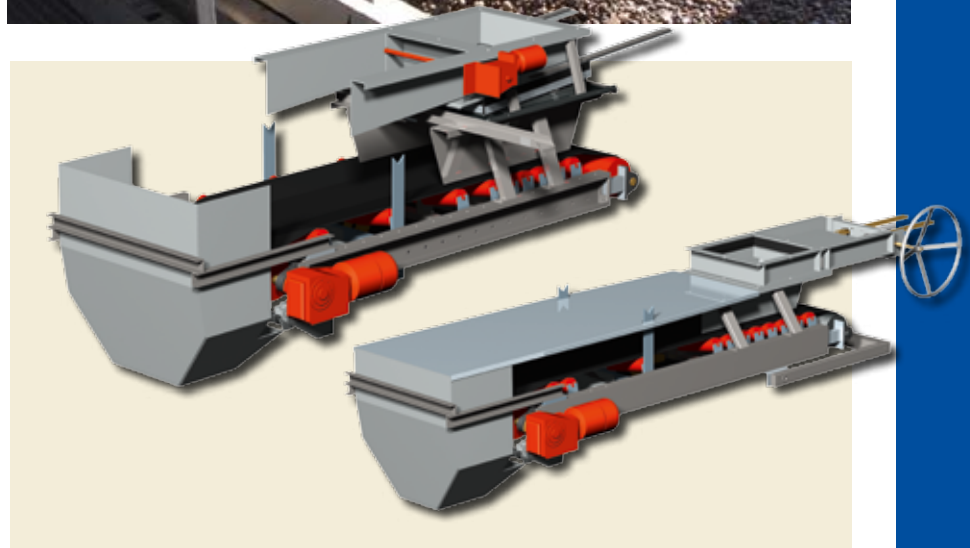


## WOHWA Weigh Belt Feeders (blending and reclaim)

for gravimetric blending/loadout of bulk materials.

### Features/Benefits

- Extremely robust construction
- Hot-dip galvanized
- Modular design
- Manual or electric slide gate for repair purposes
- Automatic zero setting with electric slide gate
- Automatic belt tensioning device
- High blending and measurement accuracy
- Pre-adjusted at factory
- Simple and fast re-adjustment with supplied test weight
- Legal-for-Trade (reclaim weigh belt feeders)





Reclaim Weigh Belt Feeder



## Quality, Continuity, Variability

Over 50 years ago, WOHWA developed the first blending and reclaim weigh belt feeders. All components and software for the modular designed weighing system are produced in-house at our factory. The modular design of the WOHWA blending and reclaim weigh belt feeders allows an individual adaptation to on-site conditions while using standard components.

Each blending device can be equipped with either a manual WOHWA shut-off or sealed gate or an electric slide gate. An electric slide gate allows automatic zero-setting of the belt scale.

The robust weigh belt feeders can be supplied with belt widths from 16 inches (400 mm) to 56 inches (1,400 mm) to meet all application-specific requirements in respect of flow rate, product and flow characteristics.

All standard components are cut on our own laser cutting machine and then hot-dip galvanized. The weigh belt feeders can be supplied with troughed or flat belts. The well-designed construction protects the scale from detrimental influences that would disturb the high accuracy weighing.

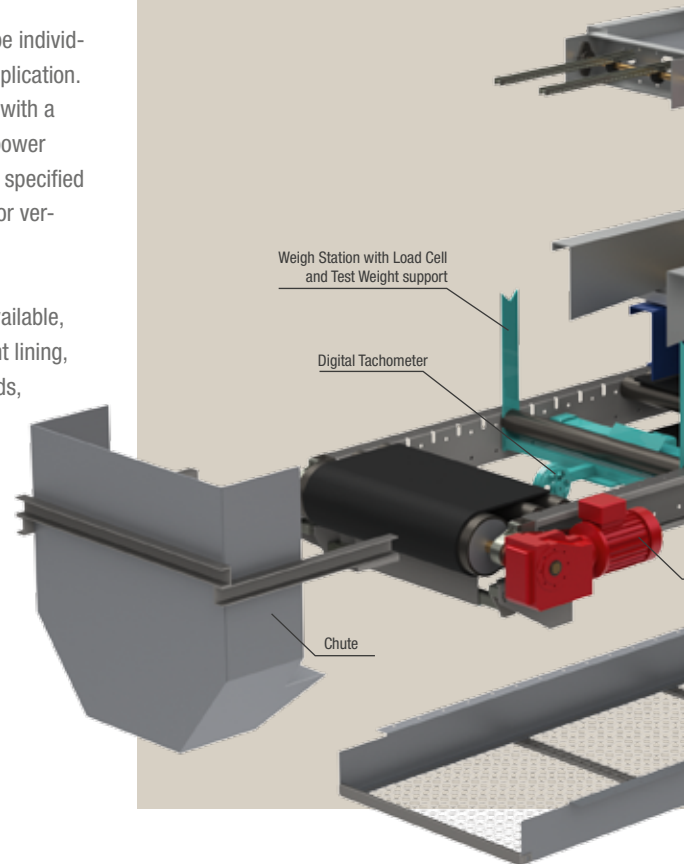
Each weigh belt feeder can be adapted in length and width to meet the customers' specific requirements. Prior to commencement of manufacturing, plans in PDF or DWG formats will be submitted to the customer for final approval.

Connecting flange and chute can be individually adapted to each customer application. The weigh belt feeder is equipped with a slip-on gear drive, and the motor power rating is optimally selected for any specified blending/reclaim rate (special motor versions also available).

Additionally, several options are available, such as dust covers, wear-resistant lining, water gutters, emergency-pull cords, sheet cover for reverse pulley, frequency converters, etc. All sensors are non-contacting.

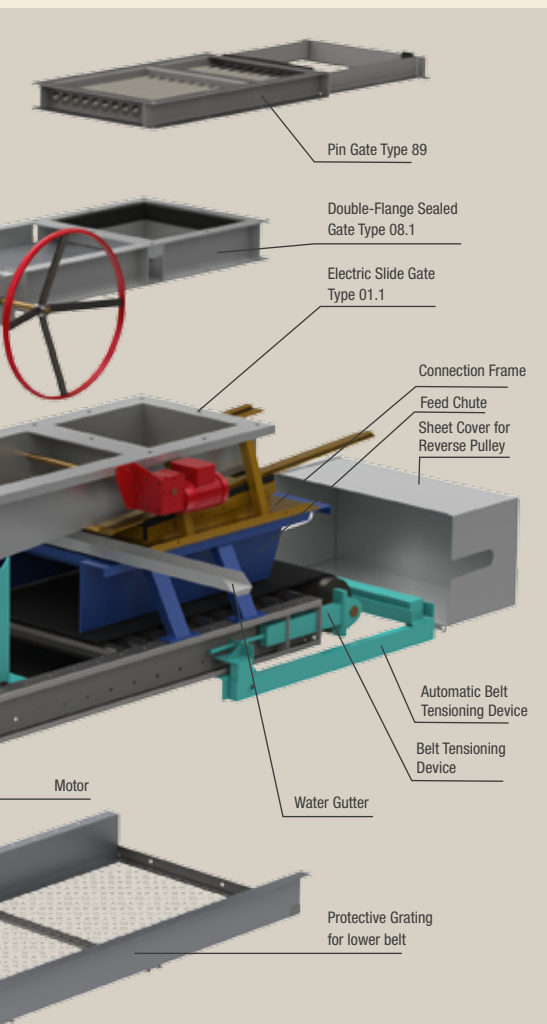
WOHWA weigh belt feeders can easily be combined with other WOHWA components.

\* The Digital Tachometer and the Weigh Station can be connected to a WOHWA Weighing Terminal.





## Set-Up of the WOHWA Weigh Belt Feeder



### Slide Gate

Depending upon the application, the manual emergency shut-off gates, types 09 and 99, the pin gate, type 89, or the double-flange sealed gate, type 02, may be used as shut-off gates. The WOHWA sealed gates, types 03 und 08.1 as well as the slide gates, type 01.1, can be supplied either with a motor or with a hand-wheel. A combination of the various blending/reclaim feeders with the above listed gate types with opening widths ranging from 8 x 8 inches ( 200 x 200 mm) to 40 x 40 inches (1,000 x 1,000 mm), meets most flow rate requirements.

### Connection Frame

The robust connection frame between slide gate and belt feeder prevents dust and dirt entering the slide mechanics. All slide gate components are freely accessible and can be changed without having to empty the stockpile or silo.

### Feed Chute

The feed chute is mounted between connection frame and belt feeder and allows the forming of a material bed on the belt. The feed chute can be adapted to any customer application.

### Belt Feeder

Available standard versions:

- Belt widths ranging from 16 to 55 inches (400 to 1,400 mm )
- Material bed depth adjustable to max. 16 inches (400 mm), depending upon application
- Belt feeder lengths ranging from 7 to 39 feet (2 to 12 m).

- Flow rates up to 2,500 metric t/h (special sizes upon request)

### Chute

Lined with 0.39 inches (10 mm) polyurethane reducing wear and noise.

### Automatic Belt Tensioning Device

A constant belt tension increases the weighing accuracy.

### Belt Cleaner

Maintenance-free, self-adjusting outer belt cleaner with rubber spring element for easy belt cleaning. The V-shaped inner belt cleaner prevents belt damage from material intruding between belt and reverse pulley.

### Belt Scale

Each belt scale is supplied with a robust digital tachometer (wheel) for measuring the belt speed. Sensor and bearing are hermetically sealed to prevent contamination from dirt.

### Standard functions

- Zero Setting
- Erase Weight
- Date/Time
- Print log for consecutive number, date, time and weight (only with GCU64)
- Pre-selection of total weight quantities
- Power Flow/Slow Flow Shutoff (only with GCU64)
- Correction Factor
- Buffered Totalizer

### Re-Adjustment

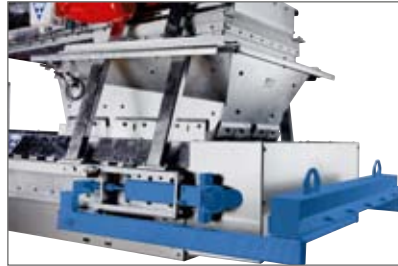
All scales are pre-adjusted at factory and can easily be re-adjusted on site with the supplied test weight.



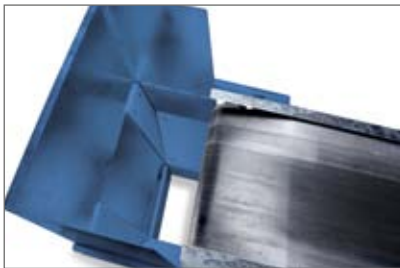
## WOHWA Weigh Belt Feeders (blending and reclaim)



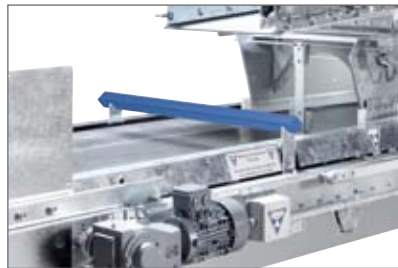
Feed chute with material controller



Automatic belt tensioning device



Chute



Test weight

### Technical Features

- Modular
- Bolted
- Completely hot-dip galvanized
- Motor and bearings maintenance-free
- adaptable flanges
- Chute (optional)
- Outer and inner belt cleaner
- Dust cover (optional)
- Lagged drive pulley (optional)
- Interfaces to dust extraction system (optional)
- High-resolution belt scale
- Robust measuring wheel (dust- and water-proof)
- WOHWA Weighing Terminal GCU50/GCU64
- Serial interface RS422 (optional)

- Analog interface 4-20 mA or 0-10 V (optional)
- Integrated PID controller
- Operator Menu English/German/French (other languages optional)
- Custom-tailored software

Connection of the belt scales directly via RS422/485 or, optionally, via PROFIBUS to:

- PC and PLC of WOHWA Control System for Processing Plants, and WOHWA Blending and Loadout System



### Weighing Terminal GCU50

The weighing terminal GCU50 has been designed as a field unit for outdoor applications. It is suited for a wide variety of installations: at the belt scale, for

wall-mounting, or for integration into a control panel.

Several interfaces options can be provided for connecting the terminal to a host process visualization and control system.

### Weighing Terminal GCU64

The weighing terminal GCU64 must be used for a reclaim weigh belt feeder if the belt scale is to be used for legal-for-trade operations or for PID control. It can be integrated into process control via a PROFIBUS interface.

### Configuration

- Can be equipped with up to 7 serial interfaces. RS232 or RS422/485 (two of which can optionally be supplied as TTY current loop interfaces)
- 1 Centronics printer interface
- 32 digital inputs or outputs (optically isolated)
- 8 analog inputs or outputs
- 0-10 V or 0-20 mA/4-20 mA

