



WerteQ

BELT SCALES
WBS - Series

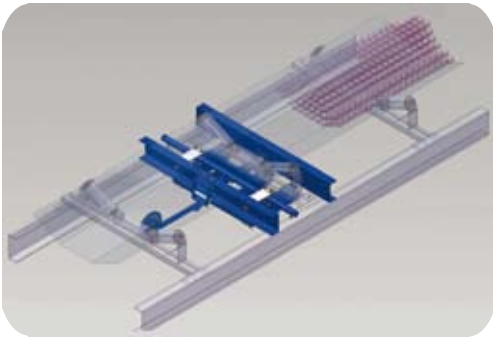


WEITEQ Belt Scale

WBS-Series

For continuous weighing of a wide range of bulk materials on belt conveyors

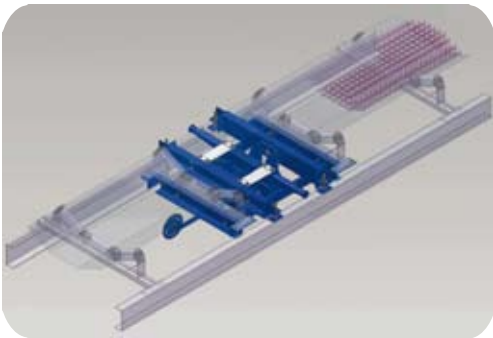
- Flexible implementation depending on accuracy requirements and actual lay out of belt conveyor. Special solutions for legal-for-trade applications
- Long term repeatable accuracy due to robust construction and direct load transmission design that eliminates pivots and lever arms
- Easy installation and alignment with minimum modifications required to existing conveyor structure and components



WBS-1 Single idler belt scale

with accuracy 1.0%

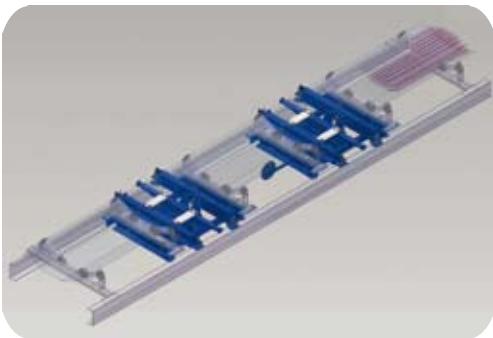
- Continuous weighing, flow rate and totalizing functions
- For the control of process equipments
- Material load indication (minimum/maximum)
- For short conveyors



WBS-2 Double idler belt scale

with accuracy 0.5%

- Continuous weighing, flow rate and totalizing functions
- Measurement of a "master" component in blending systems
- Material input/output monitoring
- Batching and feeding functions with feeder control



WBS-4 Four idler belt scale

with accuracy 0.25%

- High accuracy weighing and material
- Loading of train cars, trucks or ships in batch mode
- Input/output material monitoring in ports, quarries and mines
- Special load cells available for low material loading applications

Main features

- Flow rate (t/h) indication
- Totalizing amounts (t), 3 counters (1 not-resettable);
- Belt load determination (kg/m)
- Belt speed determination (m/s)
- Batch mode with feeder control and shift measuring in a point of material unloading
- Continuous weigh feeding mode with feeder control
- Automatic taring
- Calibration function with material or test weight
- Automatic compensation for variation in conveyor belt weight part of existing belt on the weighing measurements
- Multiple digital and analog outputs
- Speed sensor input
- Serial interfaces RS232, RS485 (Ethernet, Modbus, Profi bus)
- Power supply
AC 110 V (-15%) to 240 V (+10%), 50/60 Hz or
DC 12 V (-15%) to 30 V (+10%)
- Operating temperature range -25°C to +45°C

Scope of supply (standard)

- Weighbridge
- Speed sensor
- Junction box
- Load cell cable (depending on distance to weighing controller)
- Integrator (or weighing controller)
- Dimensional drawing
- Set of operational and service manuals

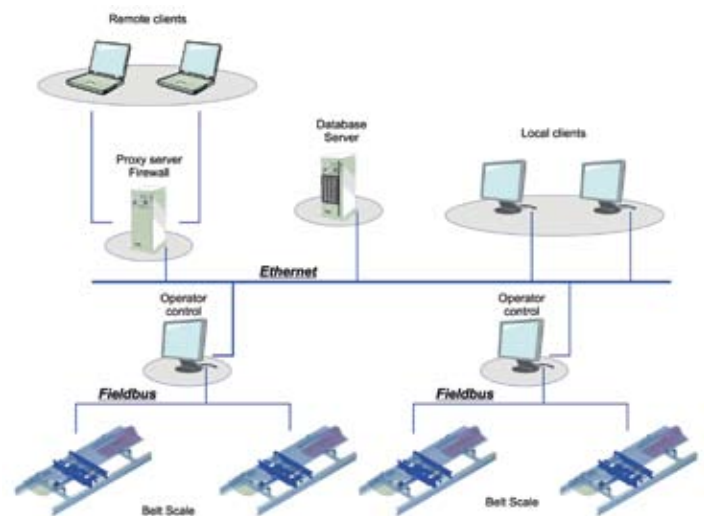
Options

- Integrated calibration device (manual or electrical activation) with test weights
- Scale quality idlers
- Computer workstation with belt scale software for monitoring and data forming

System integration features

- Can be used with other equipment such as: metal detectors, material moisture measuring devices and material analyzers
- Multiple belt scale inputs for monitoring several processes

Scales field bus net



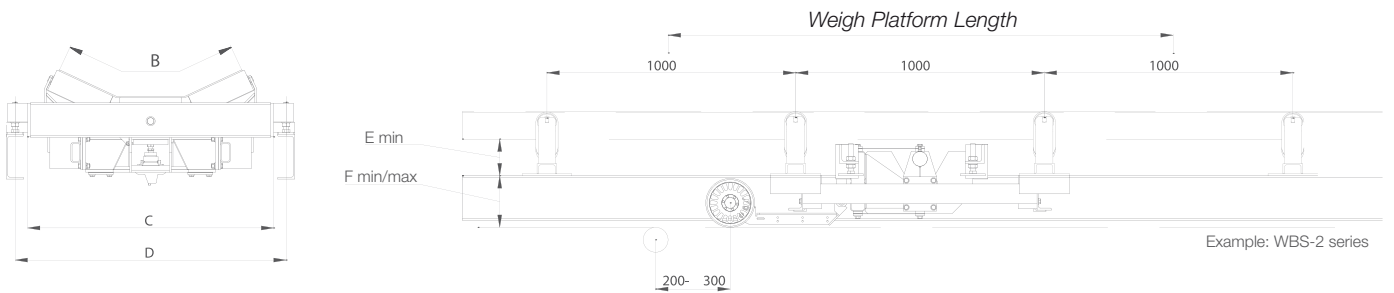
Technical Data

| WEITEQ TYPE | WBS-1 | WBS-2 | WBS-4 |
|-------------|------------------------------|------------------------------|------------------------------|
| Flow rate | up to 3,000 t/h | up to 6,000 t/h | up to 6,000 t/h |
| Belt speed | up to 3.5 m/s | up to 3.5 m/s | up to 3.5 m/s |
| Accuracy | ±1.0 % *) | ±0.5 % *) | ±0.25 % *) |
| Environment | -25°C to +45°C IP68, IP65 | -25°C to +45°C IP68, IP65 | -25°C to +45°C IP68, IP65 |

*) accuracy is:

- specified relative to actual flow rate within measurement range of 1:10, ensured if belt scale is installed in accordance with the installation manual and rules

Dimensions



| WBS-1 series: | WBS-1/04 | WBS-1/05 | WBS-1/06 | WBS-1/08 | WBS-1/10 | WBS-1/12 | WBS-1/14 |
|--|----------|----------|----------|----------|----------|----------|----------|
| B (belt width) | 400 | 500 | 650 | 800 | 1000 | 1200 | 1400 |
| C | 440 | 440 | 440 | 680 | 680 | 680 | 680 |
| D | 700 | 800 | 950 | 1150 | 1350 | 1600 | 1800 |
| E | 150 | 150 | 150 | 170 | 170 | 170 | 170 |
| F | 100/400 | 100/400 | 100/400 | 100/400 | 100/400 | 100/400 | 100/400 |
| weight, kgs *) | 35 | 45 | 55 | 70 | 105 | 120 | 135 |
| WBS-2 series: | WBS-2/05 | WBS-2/06 | WBS-2/08 | WBS-2/10 | WBS-2/12 | WBS-2/14 | |
| B (belt width) | 500 | 650 | 800 | 1000 | 1200 | 1400 | |
| C | 645 | 790 | 990 | 1190 | 1440 | 1640 | |
| D | 740 | 890 | 1090 | 1290 | 1540 | 1740 | |
| E | 150 | 150 | 150 | 150 | 150 | 160 | |
| F | 210/480 | 210/480 | 210/480 | 210/480 | 210/480 | 210/480 | |
| weight, kgs *) | 145 | 155 | 170 | 180 | 195 | 210 | |
| WBS-4 series: | WBS-4/05 | WBS-4/06 | WBS-4/08 | WBS-4/10 | WBS-4/12 | WBS-4/14 | |
| B (belt width) | 500 | 650 | 800 | 1000 | 1200 | 1400 | |
| WBS-4 is using two WBS-2 with same dimensions C, D, E, F | | | | | | | |
| weight, kgs *) | 290 | 310 | 340 | 360 | 390 | 420 | |

*) Belt scale weights are given without weight of carrying idlers

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