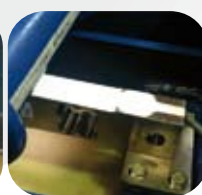




WerteQ

BELT SCALES
WBS - Series

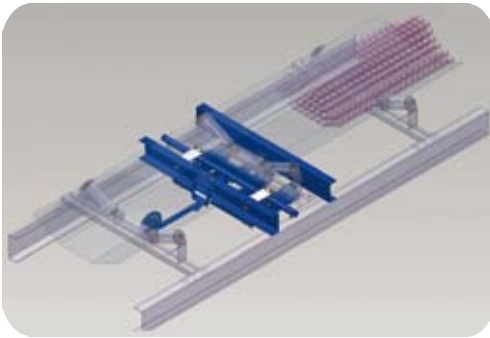


WEITEQ Belt Scale

WBS-Series

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

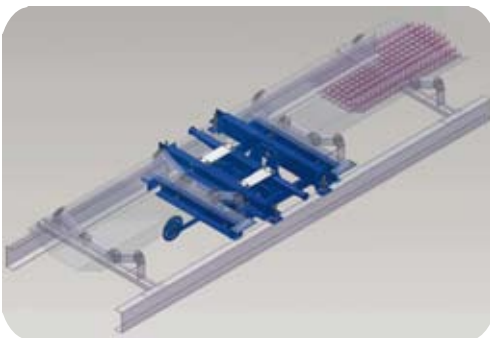
- Flexible implementation depending on accuracy requirements and actual lay out of belt conveyor. Special solutions for legal-for-trade applications
- Long term repeatable accuracy due to robust construction and direct load transmission design that eliminates pivots and lever arms
- Easy installation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



WBS-1 Single idler belt scale

with accuracy 1.0%

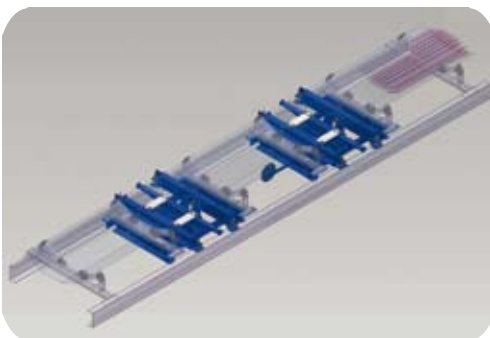
- Continuous weighing, flow rate and totalizing functions
- For the control of process equipments
- Material load indication (minimum/maximum)
- For short conveyors



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

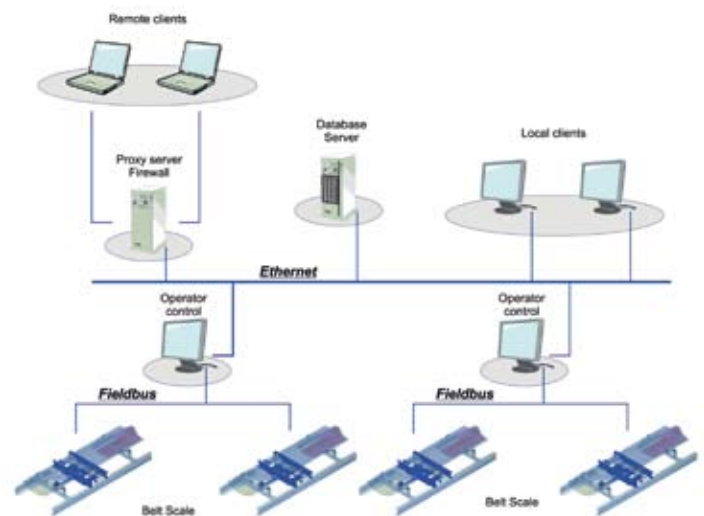
Options

- 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



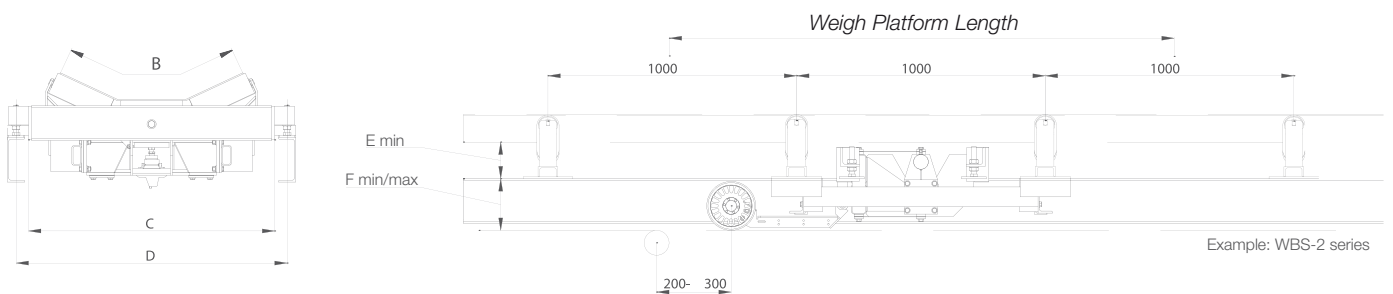
Technical Data

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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