

robust und modular belt scale



Properties

- ◆ modular setup - one basicframe compatible with every bandwidth
- ◆ low design height
- ◆ weighing of two idler
- ◆ Integral transport and overload protection
- ◆ low maintenance effort

Option

- ◆ HD-Model (heavy duty) for heavy loads
- ◆ Stainless steel design
- ◆ Velocimetry wheel
- ◆ Rotary encoder for installation at tail pulley

Specifications

The BW20 belt-scale consists of a robust frame. Due to its flat and modular construction the scale can be integrated into nearly every existing conveyor belt system. The precise load cell inside the frame is protected against shock loads by a mechanical overload device.

The material flow causes a load via the belt onto the idler. This is picked up by the weighing frame and induced into the high-precision load cell. The weight signal is normalized by the instrumentation and multiplied with the belt speed, which is detected by a robust velocity wheel. The instrumentation simultaneously displays the flow rate (t/h) and the absolute quantity (t). Three counters and various inputs and outputs are available.

Specification

BW 20 Weighing Frame*

Material

steel, powder coated RAL 5010
optional stainless steel

Operating conditions und Material property

operating temperature -10°C up to +50°C.

Velocity wheel

gummed wheel
15 pulses / rotation, 33.33 mm/pulse
10 unto 30 V supply voltage
protection class: IP67
optional in stainless steel available

Supply Voltage

5VDC clocked circuit via electronics

Sensor

full bridge Strain Gauge (OIML C3 quality)
combined error 0.03%
protection class IP68, optional ATEX

Accuracy

dependant on work enviroment and installation conditions
typical system accuracy +/- 0.5 - 1.0 % of measuring range
(higher accuracy after adjustment of the technical details possible)

Display Installment HW-IT6000 Belt

Enclosure

stainless steel, protection class IP67
wall or panel mounting

Dimensions

265 x 204 x 69mm (excl. clamp)

Weight

2.95 kg

Display

colour display incl. trenddisplay
kg/h, Σ kg (3 counters)
fault message on display

Supply Voltage

110-240 VAC with 50-60Hz or 12-28 VDC

Control Unit

membrane keyboard, numeric and function keys

User Language

German, English, Polish, Russian, Turkish

Input

full bridge strain gauge
optional transistor input channel

Optional Outputs

analogue output 4-20mA
counting impulse
transistor output channel
Profibus, ModBus TCP as Slave

Operating Conditions

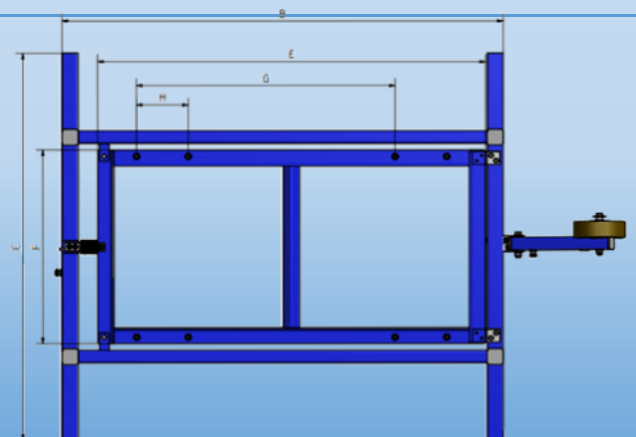
operation temperature -10°C up to +40°C.

Product variety

Product Number	Item
HW960/00200	Belt Scale BW20 steel, powder coated, incl. electronics
HW960/01200	Belt Scale BW20 stainless steel, incl. electronics
HW961/00000	Velocity wheel for belt scale BW, steel, powder coated
HW961/01000	Velocity wheel for belt scale BW, stainless steel
HW961/00001	Impulse rotary encoder for belt scale BW

Dimensions

The Dimensions of the frame will be customized to the conveyor belt.



*Delivery excl. idler