

▶ EBW 10-HD2

- **Belt scale with strengthened unit for heavy-duty conveyers**
- **With two high precision strain gauge load cells with overload protection**
- **For flow rates from 50 to 2000 t/h**
- **Completely hot dip galvanized or painted**
- **Compact dimensions**
- **Easy installation**



DESCRIPTION:

The EBW 10-HD is a single-idler belt scale with a strengthened frame unit and two load cells which allow for applications in heavy-duty conveyers with larger belt widths.

The scale offers following constructive advantages: a simple mechanical construction due to a modular frame system and a low installation depth. Therefore it also allows for applications in conveyers with very small interspace between the upper and lower belt. The support spars of the scale are easily screwed upon the conveyer. By exchanging the support spars the scale can be quickly adjusted to another belt width.

The robust belt scale consists of an exterior frame unit, an interior weighing platform and two support spars which are made of hot dip galvanized angle steel profile. The speed wheel is assembled to the frame unit. The weighing platform contains two high precision strain gauge load cells which are secured by a transport and overload protection.

FUNCTIONING:

The material flow rate on the conveyer results in a pressure load on the weighing platform which is recorded by the strain gauge load cell.

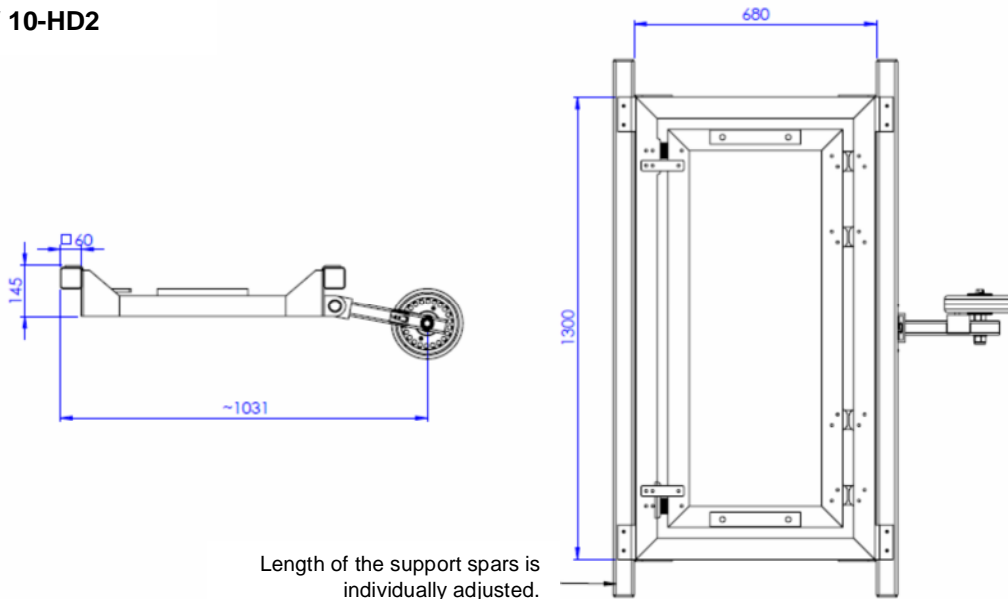
At the same time, the measuring wheel running simultaneously on the lower belt records the current belt speed.

The weight value of the material on the measuring station and the speed value of the conveyer belt combine to give the overall flow rate in tons per hour.



TECHNICAL DATA:

EBW 10-HD2



Built-in conveyer belt scale EBW 10-HD2

Comprising weighing platform, integrated strain gauge load cells, transportation and overload protection

Weighing range:	from approx. 50 t/h to 2000 t/h
Power supply:	nominal 10 V DC - via the weighing controller
Load cells:	2 full bridge strain gauge bending beam
Design:	stainless steel, hermetically welded
Max. electronic overload:	4 times nominal load, based on nominal conveying capacity
Connection:	6-wire cable
Combined measuring error of belt scale:	+/- 1 % to max. 2 %, based on the nominal conveying capacity in the range from 50 to 100 % of max. conveying capacity compared to a known weighed material test sample
Operating temperature range:	-20° to +70° C
Protection:	IP 68
Frame design:	completely hot dip galvanized, optionally painted or in stainless steel, fittings made from stainless steel
Weight:	appr. 40 kg
Belt width:	up to 1800 mm

Speed measuring wheel MTS MR 10

comprising ball bearing wheel with polyurethane surface and induction proximity switch

Power supply:	nominal 24 V DC - via the weighing controller
Output signal:	22 tension pulses per revolution
Switch function:	PNP (NPN)
Connection:	3-wire cable with plug connector, cable length 5 m
Operating temperature range:	-30° to 80°C
Protection:	IP 67
Wheel diameter:	200 mm, alternatively 160 mm
Trailing arm:	completely hot dip galvanized, optionally painted or in stainless steel,
Weight:	appr. 5 kg

Instead of the speed measuring wheel, an incremental encoder mounted upon the bend pulley can be alternatively used.

Delivery includes: Weighing platform, support spars, speed measuring wheel/incremental Encoder, junction box. Idler can be delivered optionally.

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