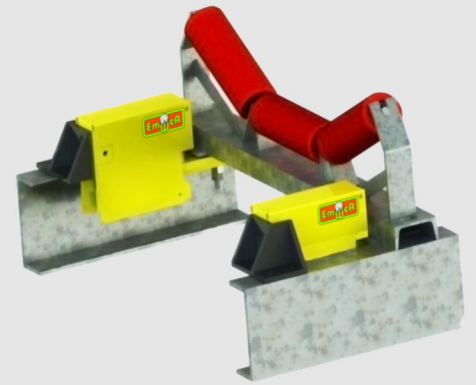


Control Belt Scale IDEA-LB.

Low-priced, rugged belt scale for in-company belt weighing.

Accuracy: $\pm 1\%$.



Rugged, low-priced Belt Scale

Specifically designed for operations where economy and ease of installation are important considerations, the IDEA-LB belt scale provides basic rate and totalization functions. The IDEA-LB belt weigher is ruggedly designed and outstandingly easy to install.

Our IDEA-LB belt scale lets you monitor production output and inventory, or regulate product loadout, while providing vital information for the effective management and efficient operation of your business.



The weighing assembly consists of the modular IDEA-LB weighing frame, and the speed sensor WI520 or ZA-11. It also utilizes a modern electronic integrator.

The IDEA-LB belt scale is suited for basic registration and monitoring of continuously conveyed bulk materials. Accuracy is normally $\pm 1\%$.



System Components

The IDEA-LB belt scale consists of three major components: control unit (integrator), weighing frame, and belt speed sensor.

Control Unit (Integrator)

As control units, state-of-the-art integrators are used. These devices are characterized by their high accuracy, their ruggedness and their easy handling. Interfaces make it easy connecting the belt scale with process control systems.

Weighing Frame

The IDEA-LB weighing frame is designed for one idler station. The weighing frame consists of either one or two weighing modules, depending on conveyor width. Compact and designed to attach to the conveyor's stringers, the modules support the weigh idler and measure the weight of material on the conveyor belt.

IDEA-LB Weighing Frame Advantages:

- Factory installed and calibrated overload protection.
- Pivotless design.
- No moving or wearing parts to cause potential maintenance problems.
- Compact design for easy installation and alignment.
- No place for material to build up and cause measurement errors.
- Identical weighing modules fit on any belt width and are interchangeable.



Belt Speed Sensor

For belt speed measurement, the ZA-11 digital lower belt measuring wheel is being used which stands out due to very simple installation. The PTFE measuring wheel reduces soilings and adhesions.

As an alternative, the WI520 digital belt speed sensor without measuring wheel can be used.

ZA-11 Lower Belt Measuring Wheel Advantages:

- Simplest installation.

WI520 Belt Speed Sensor Advantages:

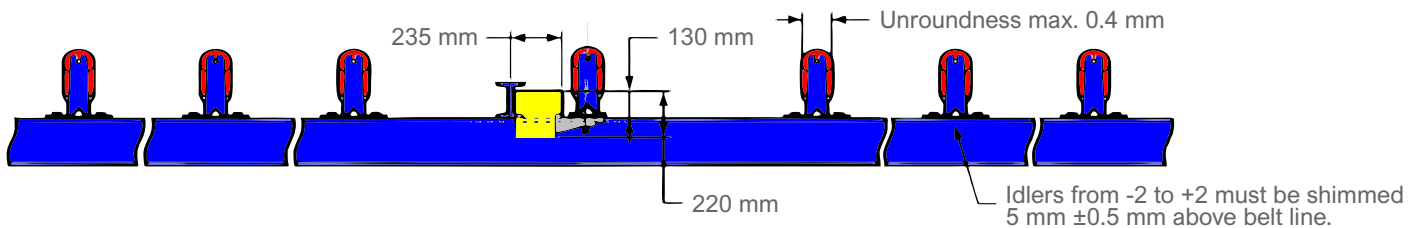
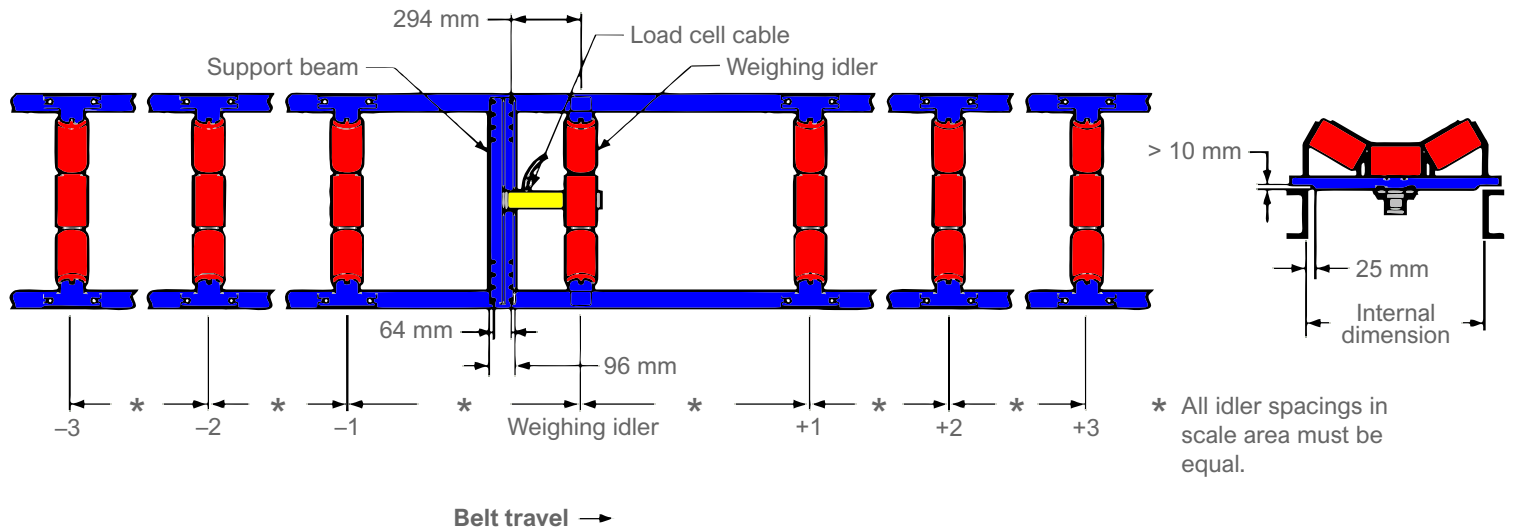
- Rugged housing, suitable for outdoor installations.
- Digital rotary encoder; not affected by belt slippage or dirt.



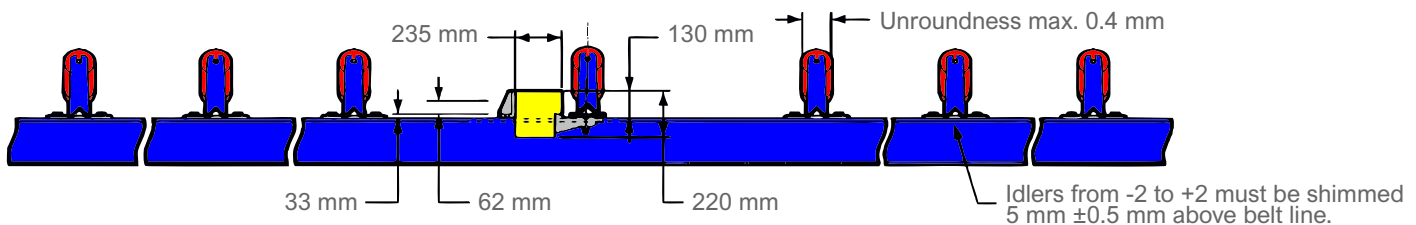
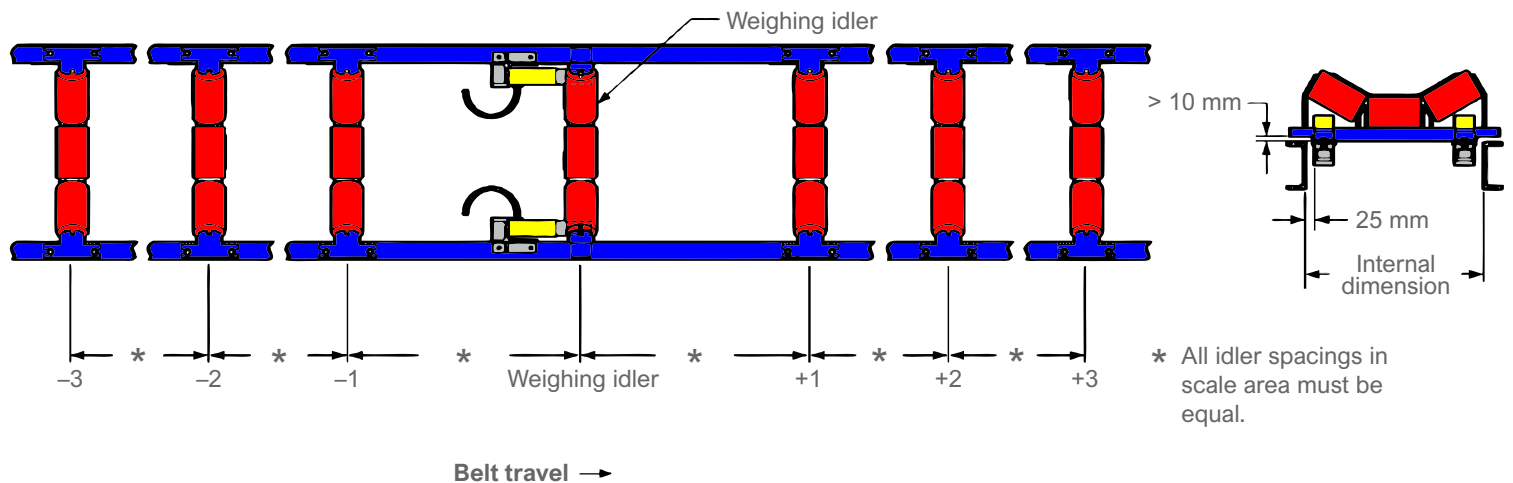
Performance Guarantee

On installations approved by EmWeA, we warrant that the IDEA-LB belt scale will weigh and totalize to a value within $\pm 1\%$ of the test load when calibrated to our specifications.

IDEA-LB-1 Weighing Frame:



IDEA-LB-2 Weighing Frame:



Technical Specifications:

IDEA-LB Weighing Frame:



No. of weighing idlers:	1
No. of weighing modules:	1 (IDEA-LB-1) or 2 (IDEA-LB-2)
Clearance requirements:	fits any standard conveyor; no space required above belt line
Belt width:	up to 800 mm (IDEA-LB-1) / up to 1600 mm (IDEA-LB-2)
Construction:	compact module, galvanized steel (option: stainless steel)
Mounting:	4 bolts to conveyor stringers

Load Cell:



Quantity:	1 per weighing module
Enclosure:	environmentally-protected load cell, stainless steel, IP 67
Mounting:	welded bending beam type load cell
Excitation:	10 V DC
Output:	2 mV/V
Accuracy:	±0.02 % / 3000 d
Operating temperature:	-40°C ... +80°C
Nominal temperature:	-10°C ... +40°C
Safe load:	150 % full span
Certificates (standard):	CE
Certificates (optional):	ATEX

ZA-11 Lower Belt Measuring Wheel:



Type:	digital, brushless
Mounting:	lower belt measuring wheel
Housing:	stainless steel and PTFE; weatherproof, IP 65
Certificates (standard):	CE
Certificates (optional):	ATEX

WI520 Belt Speed Sensor:



Type:	digital, brushless
Mounting:	direct to shaft of tail pulley or bend pulley
Housing:	weatherproof, IP 67
Mounting hardware:	supplied with flexible coupling
Certificates (standard):	CE
Certificates (optional):	ATEX, cCSAus

Control and Display Unit (Integrator):



Different variants are available for different requirements. Choose from field mount, or panel mount. Various interfaces such as binary and analogue inputs and outputs, serial interfaces, PROFIBUS, PROFINET®, EtherNet TCP/IP, or EtherNet/IP enable connection to process control systems and controllers. We would be happy to make you an individual offer!



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