

ELECTRONIC CONVEYOR BELT SCALE

The conveyor belt scale can be built into different horizontal belts with various width or band conveyors of various elevation grades. The installation is used for carrying out the weighing of conveyed bulky materials.

Construction

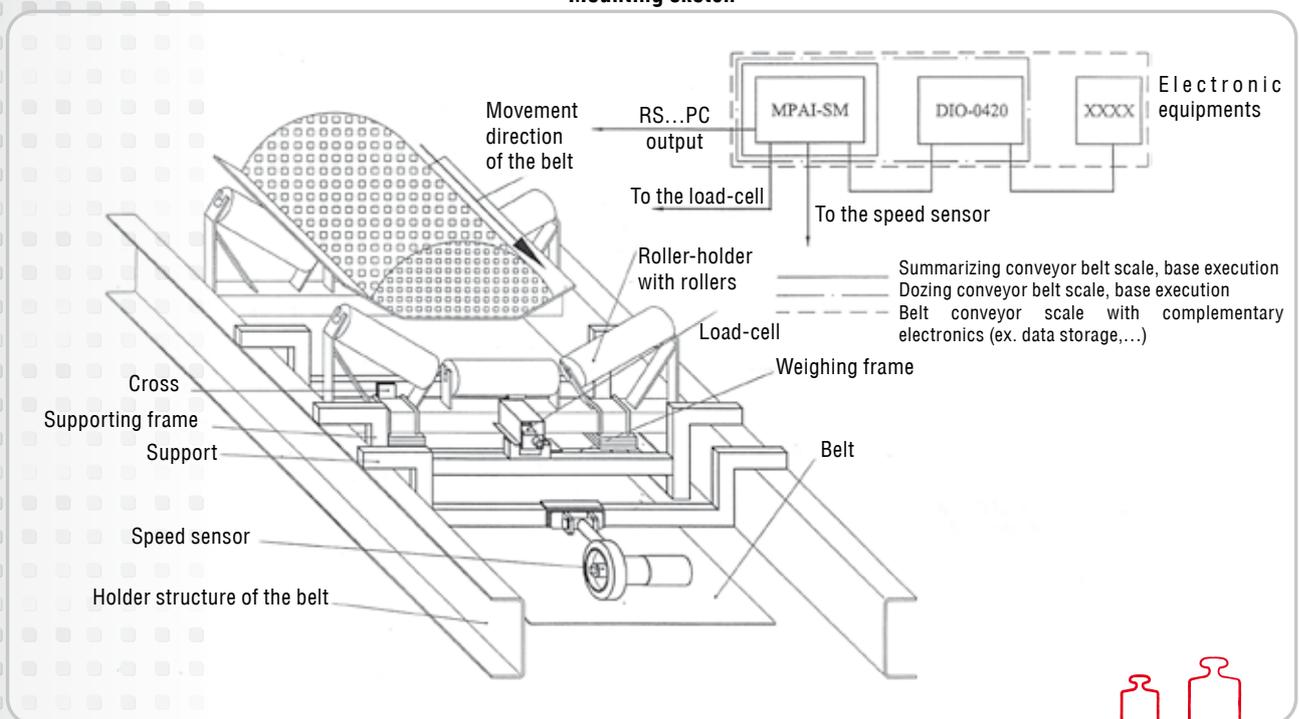
The weighing mechanism, one of the two main units, is built into the conveyor belt together with the load-cell and the speed-signaling indicator. The indicator for displaying and processing the weighing results can be installed near the scale or also in an office. The indicator communicates with external peripherals (e.g. PC).

The scale carries out the weighing based on belt speed and unit loading, and displays the output (e.g. 20 t/h) and the conveyed quantity (e.g. 25600 kg).

Based on the weighing tasks, belt scales can be classified as summarizing or dosing:

SUMMARIZING CONVEYOR BELT SCALE, MP-ÖSSZ-... TYPE DOZING CONVEYOR BELT SCALE, MP-ASZ-...TYPE

Mounting sketch



Summarizing conveyor belt scale

The conveyor belt scale summarizes the weights of material quantities conveyed on the conveyor belt.

Hardware deployment: MPA I-SM type weighing instrument + speed meter + optional output module for dosing limit value outputs.

- Weighs and displays the actual loading
- Weighs and displays the belt speed
- Calculates and displays the unit load
- Sums the conveyed material quantity

Four erasable summators, which can be chosen by the operator, for summing different material types.



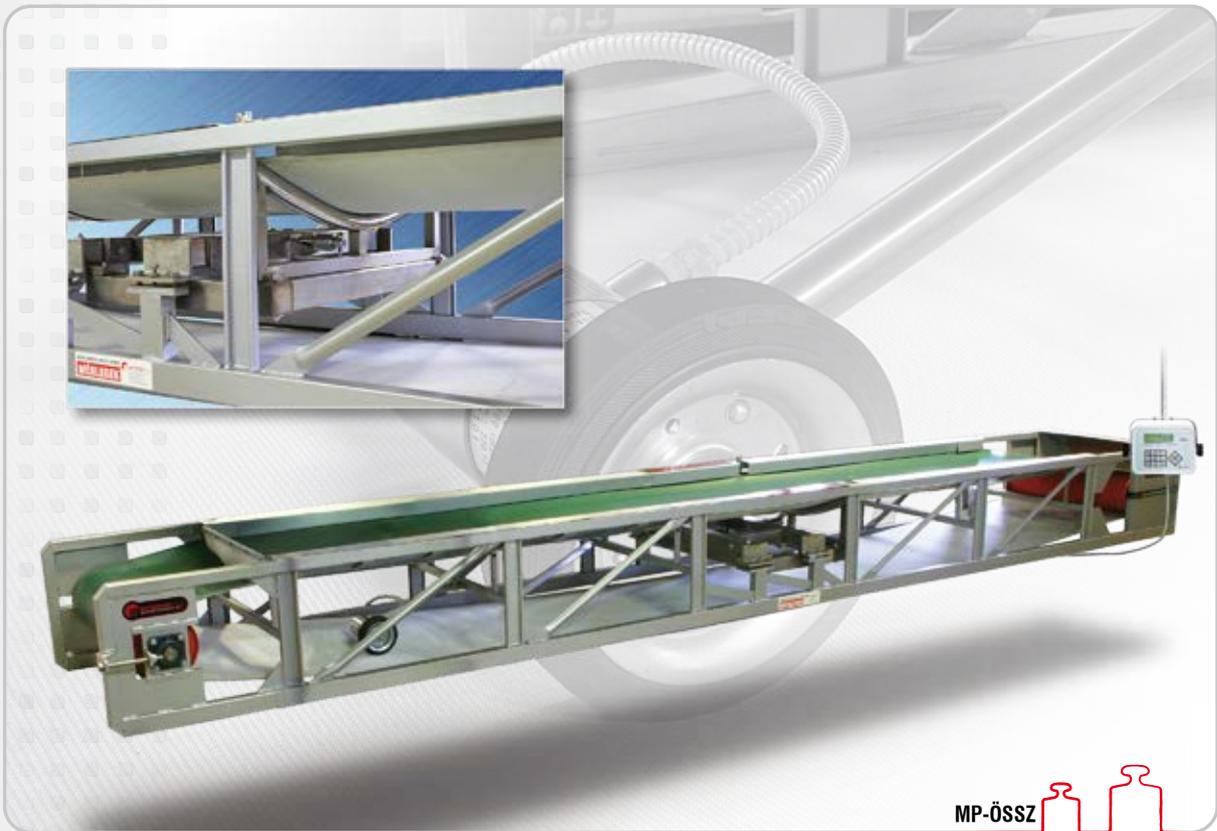
Dozing conveyor belt scale

The conveyor belt scale is capable of conveying material with a pre-set capacity (e.g. 20 t/h).

The scale can change and regulate (e.g. through a frequency changer) the capacity of the unit feeding the belt (e.g. a vibrator) or can change the speed of the conveyor belt in order to ensure operation with the desired output.

Hardware deployment: MPA I instrument + DIO-0420 module + speed meter

- Weighs and displays the actual loading
- Weighs and displays the belt speed
- Calculates and displays the unit load
- Sums the conveyed material quantity
- Controls the belt speed via an analogue output (0...20 mA or 4...20 mA or 0-10 V)
- The operator can set the belt speed manually, or
- The instrument controls the belt speed depending on the belt load- in order to reach a previously set conveying capacity or to hold a certain unit load.



These scales are manufactured to custom design, so special customer requirements can be met, and special dimensions, etc. can also be accounted for.

Specifications:

Capacity	1 t -500 t/h (depending on conveyor belt output)
Accuracy	± 0,5-2 % (depending on material and construction)
Operation temperature	-20 °C - +40 °C
Power supply	230 V, 50 Hz, 150 VA
Communication	RS-232, MODBUS-TXT protocol or TTY-20 mA