Automatic checkweighing station

for accommodating belt and roller conveyors

Scales integrated into conveyor lines serve to determine actual or target weights, for example, during storage in rack systems, before and after removal from storage containers during picking processes, for inventory control, and for detecting improperly overloaded packages or containers.

A 100% inspection of weight-matched packaging units by an automatic checkweigher can take place, for example, at the exit of the packaging machine or before palletizing.

RHEWA platform scales with a single load cell and dimensions up to 800x600mm, as well as weighing frames with four load cells and flexible dimensions, are ideally suited for accommodating belt and roller conveyors and for use in automated conveyor systems.

Maximum Flexibility

Depending on the pre-load, weighing range, and desired accuracy, platform scales with a single load cell or weighing frames with four load cells can be used.

Weighing frames are available in flat design (FA) for installation between the substructure and conveyor technology or in block design (BA).

The type of mounting points for attaching structures is freely definable, allowing for the construction of manufacturer-independent conveyor technology.

Weight determination is performed either by a display unit with signal exchange for control or by a signal conditioner with ProfiNet interface.

Simple in-line checkweighers provide signals for controlling subsequent switches or pushers and are also excellent for retrofitting into existing conveyor lines.

Example of Use: Good-Bad Scale

Identical parts are separated and fed to the scale via a conveyor belt.
The target weight and maximum allowable tolerances are set once.
Depending on the evaluation - OK/NOK - the scale controls the direction of the belt conveyor.
By specifying the desired number of good parts in the container, the scale can provide a signal for automatic container changeover.
A mean value can be calculated from the measured values, and logging can be done using the USB data logger, for example, as a .txt file.