



ADVANCED WEIGHERS AND WEIGHING SYSTEMS FOR STATIC, DYNAMIC AND CONTINUOUS WEIGHING



## Belt scales

SUPPLIER FOR

- The grain and feed milling industry
- The food industry
- The chemical/technical industry



## Belt scale VIB

### Standard solutions and project design

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The Jesma range of belt scales is among the widest on the market today, and with a clear strategy of supplying only fully tested equipment with market leading reliability, Jesma is able to supply belt scales that accommodate any requirement for a wide range of industries.

Based on more than 30 years of experience Jesma is able to carefully evaluate the information from our customers and combine it with our experience and knowledge about belt scales and their operation in belt conveyors.

With information such as required accuracy, belt speed, belt type, trough angle, belt inclination and product characteristics, supported by the extensive experience and know-how, Jesma not only supply equipment which is trustworthy and reliable today – Our aim is to supply equipment which is trustworthy, accurate and reliable also for future demands.





# RELIABLE ACCURACY

Type	VIB/EES	VIB/EER
Typical applications	All types and applications of belt conveyors	
Benefits	Easy to install Maintenance-free bearings Insensitive towards side forces and uneven load Project design to fit existing conveyors	
Approvals	Class 1 and 2 according to MID OIML R50	Class 0.5, 1 and 2 according to MID OIML R50
Accuracy*	± 0.5%	±0.25%
Capacity range	5.0 - 2000 t/h	10 - 2000 t/h
Atex option	Zone 21+22 - Zone 1+2	
Belt width	450-1400 mm	450-2500 mm
Regulation	Feed/weighing range: 3:1 Belt speed range: 5:1	
Construction	St. 37, AISI 304, or hot galvanized	
Options	Flat belts, V-shaped or Trough-shaped	

\*Accuracy is depending on product characteristics and final design.



## VIB/EES

### Single roller – Simple and reliable

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The standard belt scale VIB/EES with its single roller construction is particularly designed for simple installations and applications for internal process weighing.

Despite its simplicity the VIB/EES is supplied with high precision turned rollers in a rigid and sturdy frame thus providing excellent reliability, and thereby also available for trade approved applications according to MID OIML R50 class 1 & 2.

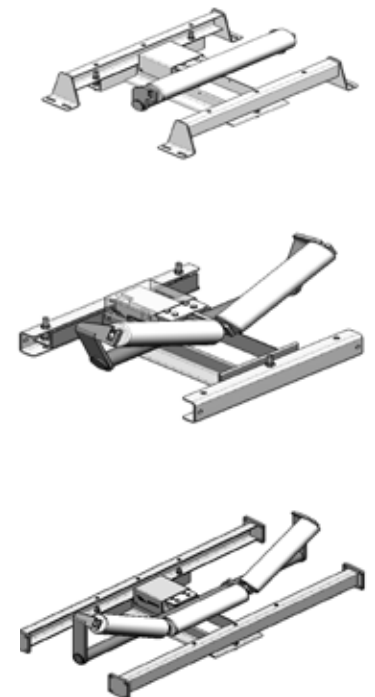
With its high flexibility and the possibility to project design the belt scale, the VIB/EES is easily retrofit into an existing conveyor structure, as well as new installed belt conveyors with flat belts, V-shaped or trough-shaped conveyors.

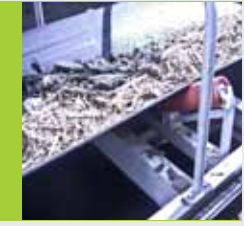
The VIB/EES belt scale is supplied as a complete and assembled unit ready for mounting into the conveyor.

### Specifications

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Max. Capacity	2000 t/h
Accuracy*	1% with single roller *Depending on final design: 0.5% with twin scale
Belt width	450...1400 mm
Belt speed	0.1...4 m/s
ATEX zone	21+22 - 1+2
Structure material	Coated steel St.37.2 Hot galvanized Stainless steel 304
Roller diameter	89mm...133mm
Roller material	Steel St.37.2 Sea-resistant aluminium Stainless steel 304





# RELIABLE ACCURACY

## Belt scale VIB/EER

### Multi roller – Superior accuracy

The multi roller belt scale type VIB/EER is designed for applications where the highest possible accuracy is required.

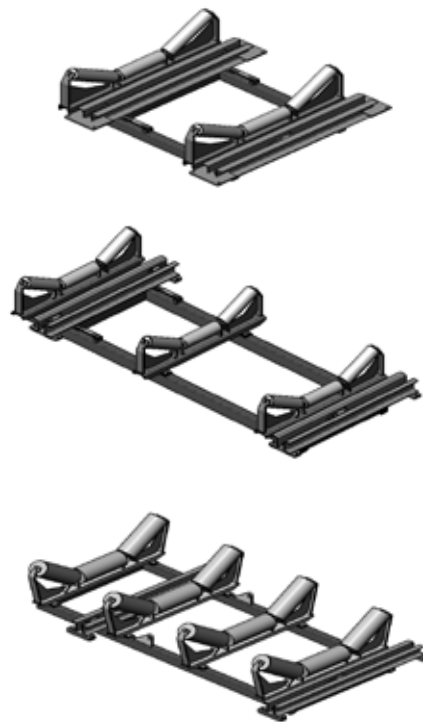
The weigh structure is delivered as a complete unit for bolting onto the conveyor girders, and it replaces up to 4 of the conveyor belt roller sets, without changing the construction of the conveyor.

The VIB/EER is supplied with high precision turned rollers in a rigid and sturdy frame thus providing excellent reliability, and thereby also available for trade approved applications according to MID OIML R50 class 0.5, 1 and 2.

With its high flexibility and the possibility to project design the belt scale, the VIB/EER is easily retrofit into an existing conveyor structure, as well as new installed belt conveyors with flat belts, V-shaped or trough-shaped conveyors.

### Specifications

Max. Capacity	2000 t/h
Accuracy*	0.25 %
*Depending on final design	
Belt width	450...2500 mm
Belt speed	0.1...4 m/s
ATEX zone	21+22 - 1+2
Structure material	Coated steel St.37.2 Hot galvanized Stainless steel 304
Roller diameter	89mm...133mm
Roller material	Steel St.37.2 Sea-resistant aluminium Stainless steel 304



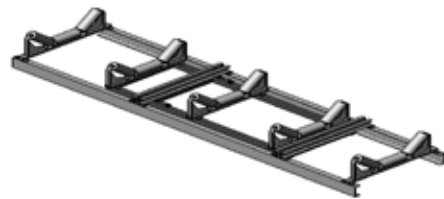


## Belt scale accessories

### Adjustable idle rollers VIB/EE

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To optimize the accuracy of the VIB belt scale Jesma is able to supply it including adjustable idle rollers.



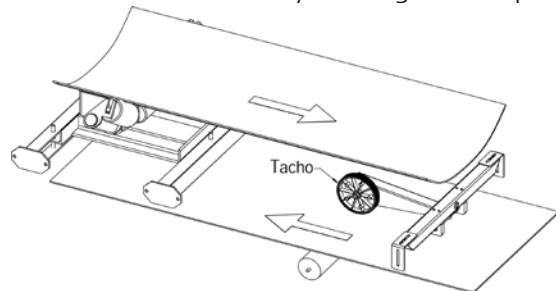
With the vertically and horizontally adjustable idlers a perfect belt run can be achieved. The optimized belt run will improve the accuracy and reliability of the scale as well as reducing the start-up and commissioning time to a minimum.

### Speed sensor

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To provide the best possible accuracy and reliability in the operation of the belt scale Jesma recommends measuring the belt speed via an 2-channel incremental encoder (Tacho).

The tacho can be fitted with a belt wheel constantly following the belt speed



...or fitted direct to the shaft of the turning roller



In applications where highest possible accuracy is not a main priority, it is possible to replace the incremental encoder with either an inductive switch or to enter the belt speed as a fixed value in the controller.

The speed sensors are available as standard in ingress protection IP65 or IP68 as well as for ATEX zone 21+22 - 1+2

### Belt tracking switches

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For the continuous monitoring of the belt operation, the belt scale is available including a set of belt tracking switches. Depending on the electrical wiring the switches can be connected „Normal Closed“ or „Normal Open“.



# RELIABLE ACCURACY

## Special design belt scales

### Scales for other types of conveyors

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Being customer and project orientated Jesma have supplied a wide range of special designed scales for other types than traditional belt conveyors.

Based on more than 30 years of experience and extensive know-how Jesma has helped customer with accurate weighing of product flow in conveyors types such as:



Closed and free-hanging conveyors



Closed and tube shaped conveyors

Please contact Jesma for more information regarding special designed conveyor scales.



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