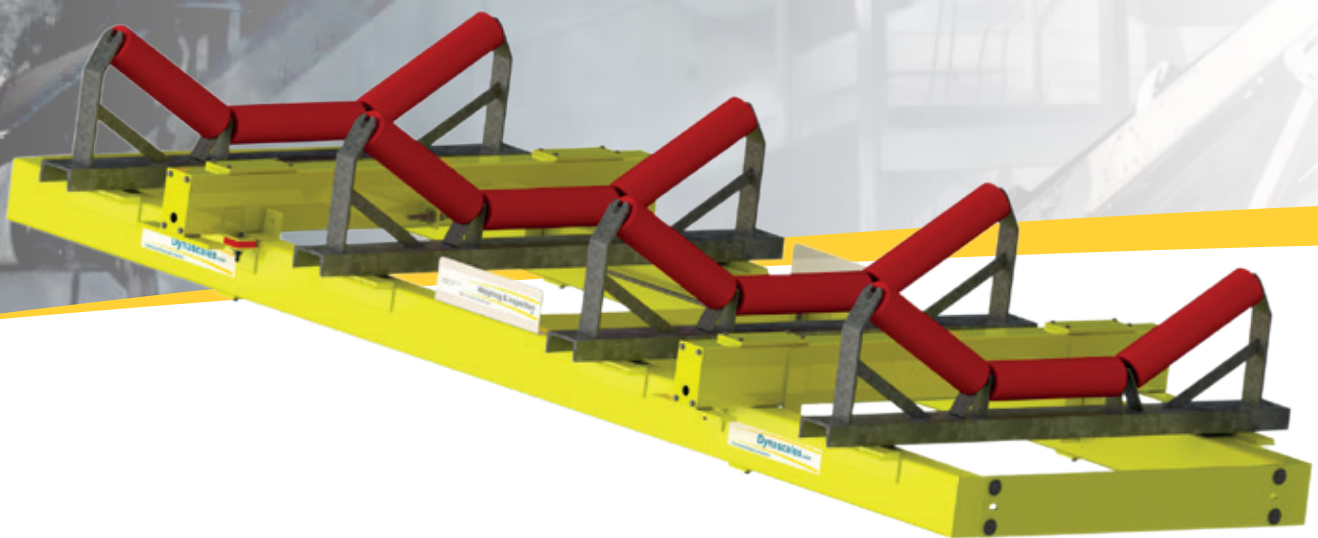


Dynascales.com

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DYNASCALE approved precision beltweigher model 1014

www.dynascales.com - www.weighingandinspection.eu/dynamic

DYNASCALE BELT SCALE MODEL 1014

The Dynascale belt scale model 1014 has an extremely high accuracy that is up to 0.125% and is the most accurate belt scale available on the market. The Dynascale approved belt scale model 1014 allows you to monitor and control your production while providing information on efficient operations.

The Dynascale belt scale model 1014 is designed for high accuracies and use in approved applications in the most complex industrial applications. In approved version, you can use the measurement for billing purposes. The belt scale consists of the weighbridge model 1014, with an inner frame suspended on 4 loadcells, the speed sensor WIS526 and the (optionally calibrated) weighing electronics WI301.

Both weighing frame, speed sensor and weighing electronics have already proven themselves in practice in approved precision belt weighing systems.

Features and installation

The Dynascale belt scale model 1014 is easy to install, indoors or outdoors, on stationary or mobile belts and is customised to your applications. Its robust construction makes it suitable for the most difficult applications on a wide variety of applications.

The Dynascale 1014 belt scale has an OIML certificate according to the EEC directive, class 2, 1 and 0.5.

The weighing frame

The weighing frame consists of a very rigid inner frame without pivots and moving parts, on which 2, 3 or 4 weighing troughs are placed, depending on the application. The entire weighing frame, including the required tension rods and transport protection, is assembled in our workshop. Only 8 bolts are used to secure the

weighing frame in the belt construction. By means of 4 precision load cells, the inner frame is suspended from both load cell beams.

The speed sensor

The digital speed sensor is a highly accurate and reliable speed sensor, ideally suited for use with a belt scale. Its stainless steel construction and IP67 protection degree ensure that it can be used in virtually all conditions, indoors and outdoors, corrosive or not,...

The transducer is mounted on the reversing drum and/or a travel roller on the output shaft, via a rod and a coupling piece to provide a smooth and reliable connection.

The Integrator

The WI301 integrator is a weight integrator for dynamic weighing systems. By integrating the mV signal from the load cells in the weighing frame and the pulse signal from the speed sensor, the WI301 integrator generates a readout for the product flow in e.g. tonnes/hour. It is also possible to read out the belt load (kg/m), belt speed (m/s) and the daily counter or total counter (kg or Ton). The integrator can also be equipped with various optional boards for e.g. communication purposes. The integrator can be used for both approved and non-approved applications.

Accuracy guarantee

On installations approved by us, we guarantee that the Dynascale belt weighing system weighs and counts within a value of $\pm 0.125\%$ of the test value, between 20 and 100 % of the maximum capacity, provided it is calibrated with material and the conveyor installation is suitable for it.

Advantages

Weighing frame :

- Rigid, tubular steel construction with buoy rods ensure proper alignment
- No moving or wearing parts
- No adjustments possible
- Factory-assembled and easy to assemble
- Four precision load cells loaded to tension
- Fully suspended inner frame without pivots

speed sensor:

- Compact, suitable for outdoor installation
- Stainless steel
- IP67



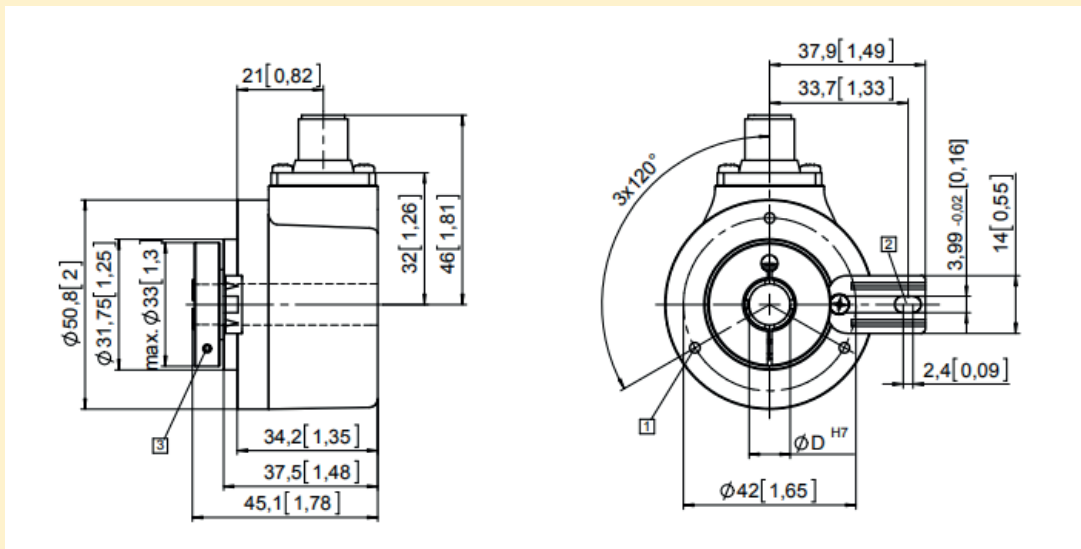
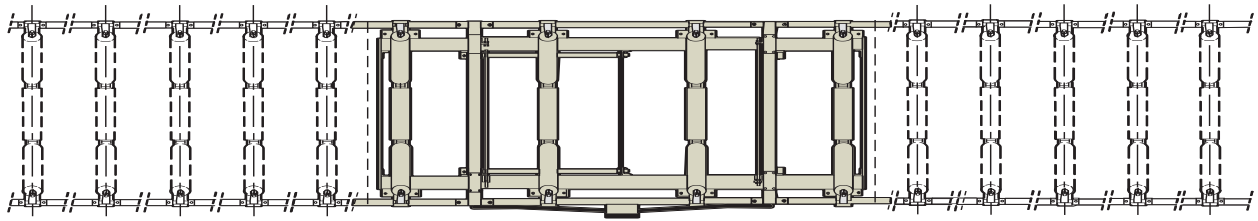
WI301 Weighing indicator,
Field - version



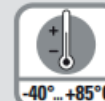







Applications

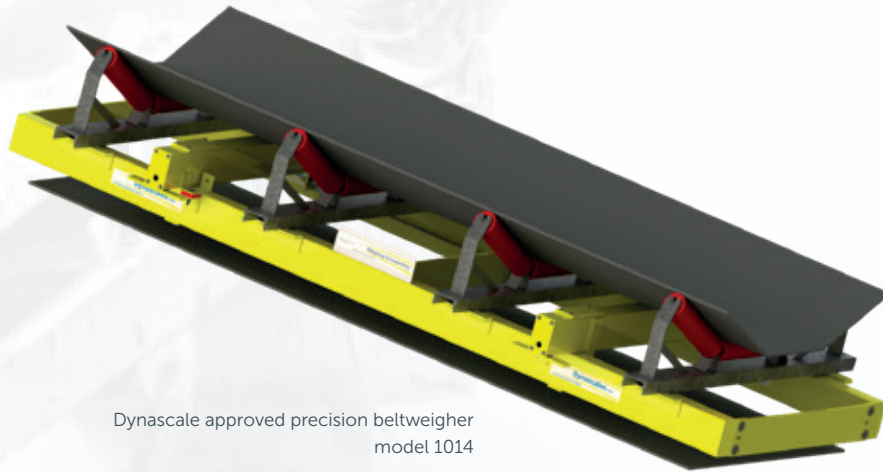
- Crushing plants
- Chemical plants
- Asphalt plants
- Mining
- Cement plants
- Coal and iron ore handling
- Paper mills
- Gypsum factories
- Sand and gravel companies
- Ore extraction
- Loading and unloading facilities



Digital speed sensor WIS526



- 
 Safety-Lock™
- 
 High rotational speed
- 
 -40°...+85°C
- 
 High protection level
- 
 High shaft load capacity
- 
 Shock / vibration resistant
- 
 Magnetic field proof
- 
 Short-circuit proof
- 
 Reverse polarity protection
- 
 Optical sensor



Dynascale approved precision beltweigher
model 1014

Specifications

Specifications	
Dynascale 1014 weighing frame	
Weighing section	2, 3 or 4 weighing troughs
Weighing frame construction	Powder-coated structural steel, optionally galvanised or stainless steel
Space requirement	Applicable in any standard conveyor belt
Belt widths	400 to 2000 mm, more on request
Mounting	With 8 bolts on the longitudinal beams of the belt structure
Loadcell	
Number	4
Type	S-type, IP65 or IP67
Mounting	Loaded under tension
Power supply	10 VDC +/- 5%
Output	3 mV/V +/- 0.1%
Non-linearity	<0.03 % FS
Non-reproducibility	0.01% FS
Operating temperature	-40°C to +80°C
Temperature sensitivity Range	0.0014% FS/°C; Zero 0.0027% FS/°C
Overload	Safe to 150% of load cell capacity; Max. to 300% FS; lateral force max. 50% FS
Belt speed sensor WIS526	
Type	Digital encoder with hollow shaft
Mounting	Directly with a coupling on the output shaft of the reversing drum or a return roller
Housing	Stainless steel housing, IP67
Mounting accessories	Shaft with mounting arm
Weight	Approx. 500 g
Weigh integrator	
Type	WI301
Display	Alphanumeric, 5" colour display
Calibration	Zero points, zero point tracking, resistance simulation, weights, calibration chains or product
Communication	Protocol of your choice (mA, profinet, profibus, ethernet TCP/IP,...)
Power supply	110 VAC, 240 VAC or 12-30 VDC
Digital inputs	Up to 3
Digital outputs	Up to 4
Housing	Field mount IP69K (228 x 214 x 124 mm) or panel mounting, IP69K (241 x 180 x 47 mm)
Temperature range	-10°C to +40°C
Calibrated version (OIML)	Available, class 2, 1 or 0,5

Weighing & Inspection

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