

Checkweigher EWK 3010/EWK 3015

With weighing system 10 kg or 20 kg



German Quality

The weighing systems WS 10 kg and WS 20 kg, combined with evaluation electronics EWK 3010 or EWK 3015, form a high-performance checkweigher for weight or integrity checking, as well as for the regulation of upstream filling systems.

All model variants have a type approval which allows for use in legal metrology for Packaged Goods Regulation inspection in all European countries.

The right solution for all of these applications:



Weighing



Fill quantity
control



Statistics



Classification



Statistical process
control

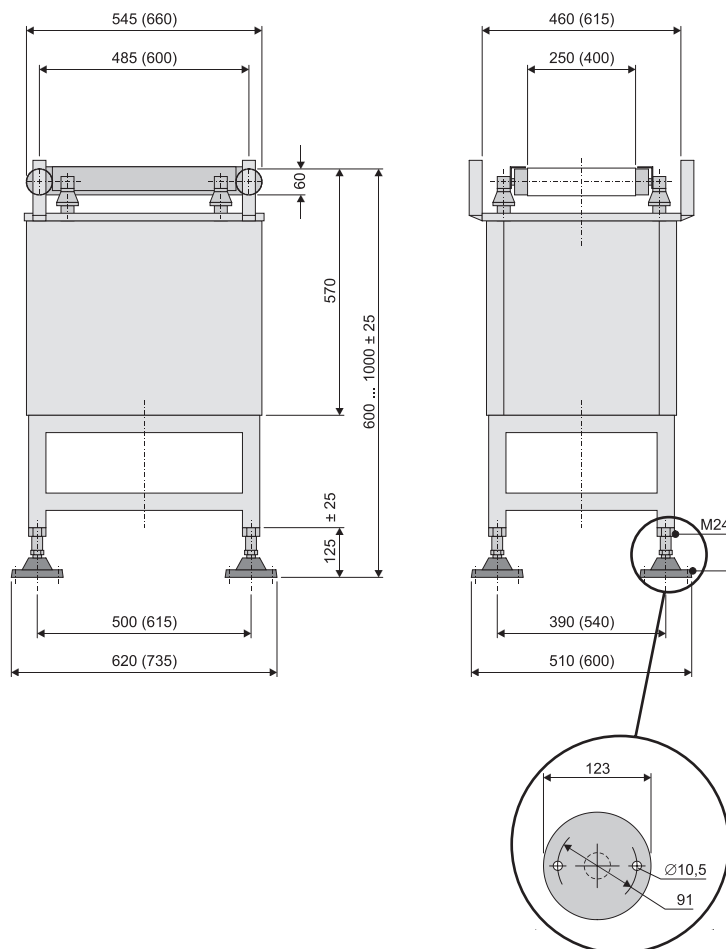
Technical specifications

Checkweigher EWK 3010/EWK 3015 with weighing system 10/20 kg		
Weighing system	WS 10 kg	WS 20 kg
Gross weighing range (kg)	Up to 10	Up to 20
Smallest permissible calibration value (g)	1	2
Imprecision area (Ua) (mg)	From 500	From 1,000
Standard deviation of the measurement error (s) (mg)	From 85	From 170
Throughput (item/min)	Depending on product, throughput and ambient conditions	
Speed range Belt control for variable speed (m/s)	150 Depending on product, permitted imprecision and ambient conditions	
Table length (mm)	Motor control via frequency converter, emergency stop and ON/OFF switch Selectable adjustment range: 0.07–0.24, 0.12–0.41, 0.14–0.48, 0.175–0.595, 0.215–0.73, 0.31–1.05, 0.425–1.445 Depending on package length and weighings per time unit	
Centre-to-centre distance (mm)	545/660	545/660/860
Belt width (mm)	485 (for table length 545) 600 (for table length 660) 800 (for table length 860)	
Transport system roller diameter (mm)	250 (for table length 545) 300 (for table length 545) 400 (for table length 660)	
Control cabinet with evaluation electronics	58	
Transport medium	Set-up of the control cabinet with evaluation electronics is carried out separately from the weighing system, evaluation electronics on support arm (function enhancement) Cable length: 3 m (standard) Max. cable length: 15 m; state when ordering	
Drive	Belt	
Supply voltage	Maintenance-free three-phase gear motor Motor control with temperature monitoring by 1 x thermal contact 3 × 230 V _{AC} (+10%/–15%), 100 Hz; power: approx. 180 W Protection class: IP 65	
Power consumption	230 V _{AC} (+10%/–15%); 50/60 Hz (L1, N, PE); power incl. evaluation electronics and motor control: max. 600 VA	
Feed direction	Approx. 700 VA (depending on design up to 1800 VA)	
Working height (mm)	From right to left or left to right (state when ordering)	
Ground clearance (mm)	600 ... 1,000 Adjustment range of the feet: ± 25 mm Minimum working height 570 mm, not adjustable	
Permissible operating temperature range (°C)	125 (± 25)	
Product temperature (°C)	+5 to +40	
Protection class	–30 to +80 (belt)	
Dimensions	IP 54 (standard), IP 65 (optional)	
Material	See dimensional drawings	
Weight	Weigher frame, control cabinet, evaluation electronics housing: stainless steel 1.4301 Belt structure, rollers: Aluminium, surface-finished	
Airborne noise emitted	150 kg, depending on design	
Interfaces	A-rated sound pressure level emitted < 70 dB(A)	
Inputs	Ethernet Profibus Profinet DeviceNET RS422 RS232 Current Loop CANopen	
Outputs	8/16 (optional) digital inputs 24 V _{DC} I _{max} = 6 mA (< +5 V: signal = 0, > +14 V: signal = 1) Inputs galvanically isolated via relay or optocoupler depending on use	
	8/16 (optional) digital outputs, 24 V U _{DC} = +18 to +30 V I _{max} = 0.5 A; fault alarm output galvanically isolated via relay contact 250 V _{AC} /5 A Outputs galvanically isolated via relay or optocoupler depending on use 2 analogue outputs (optional): 0–20 mA, 0–10 V Voltage output: load impedance ≥ 2 kΩ Current output: load impedance ≤ 300 Ω	

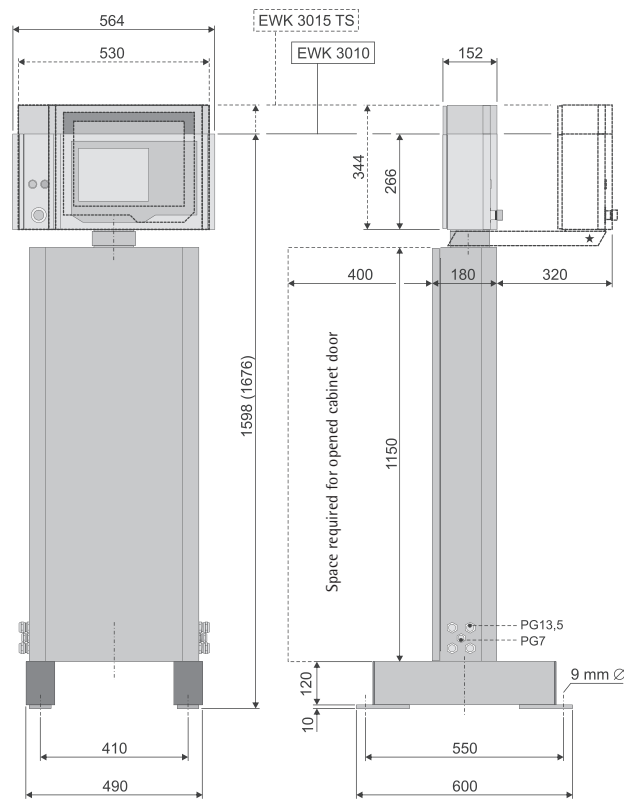
- The results that can be achieved in practice, e.g. for the standard deviation of the measurement error or the throughput, depend on the respective application and must therefore not be understood as absolute values. The precise design of the supplied machine is defined in the order confirmation.
- The monolithic EMFC load cells used, which were developed specifically for dynamic checkweighers, are characterised by ultimate precision and extremely short weighing time, optimum stability, robustness and overload protection.
- State-of-the-art electronics with the latest signal processor technology allow for particularly effective filtering thanks to the extraordinarily high scanning rate of 2 kHz (0.5 ms).
- The product is taken to the weighing system via an infeed belt provided on site. An outfeed belt provided on site takes the products onwards for further transport and, if necessary, for separation/sorting.
- Outlet nozzles, pushers or gates can optionally be installed as separation/sorting devices behind the checkweigher on the on-site outfeed belt.
- All EWK models offer a range of options to make production monitoring and data assessment easier.

Technical diagrams

Checkweigher EWK 3010/EWK 3015 weigher frame



Checkweigher EWK 3010/EWK 3015 control cabinet



The dimensional drawing shows the control cabinet with evaluation electronics. The optional version "evaluation electronics on support arm" is shown with a dotted line.

All dimensions in mm

The products and solutions presented in this data sheet make major contributions in the following sectors:



Food and beverages



Pharmaceutical



Chemistry



Agribusiness



Cosmetics



Building materials



Recycling



Machinery (OEM)

The technical data given serves as a product description only and should not be understood as guaranteed properties in the legal sense.

Specifications subject to change without notice.
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