DK EL

EL & AUTOMATIK

KLA 700

Intelligent checkweigher with large load range, extreme precision and high performance.

With a sample capacity of up to 600 packages per minute, a belt weigher measuring 200 x 650 cm, a load range from 125 grams to 6000 grams and an extreme accuracy DK EL's KLA 700 is created for demanding production environments, where flexibility and maximum performance is crucial.

KLA 700 characteristics
- High performance and maximum efficiency
- Large load range with extreme precision
- Designed for demanding production environments
- Flexible and efficient product handling
- Ethernet IP/TCP, field bus and OPC technologies
- Low maintenance costs

Full-line supplier for the food industry

DK EL specialises in dynamic checkweighers for food production companies. We can supply checkweighers as a stand-alone product and we can integrate it into your existing packing facility or design and deliver a complete new packaging system.

Technical specifications

Load range*	3 - 10,000 g
Accuracy**	From ±0.01 g (10 mg)
Capacity**	Max. 600 weighings per minute
Length of infeed belt (A-A) area	Length of infeed belt (A-A) area
Width of infeed belt (B-B) area	60 - 400 mm
Length of weighing belt (A-A) area	150 - 600 mm (distance between the roller centres)
Width of weighing belt (B-B) area	60 - 400 mm
Length of reject belt (A-A) area	250 - 1800 mm (distance between the roller centres)
Width of reject belt (B-B) area	60 - 400 mm
Line height (TH), other heights upon request	550 - 1,500 mm (±50 mm)
Compressed air supply	Approx. 6 bars (87 PSI)
Noise level, standard system at full speed***	Less than 70 dBA at 1 m height and 1 m distance
Setup memory for product (sample)	Capacity up to 400 products
Classification	3-7 weight zones
Resetting	Automatic or manual
Electrical (with lockable mains switch)	110/230 V AC, single phase, 50/60 Hz, 750 VA-1 kVA
Density	IP 54, optional IP 65 (density)
Surface finish	Stainless steel

Technical data

Approval No. (DE)
DE-17-MI006-PTB006. Scale and dimension design approval for official certification (may be MID-certified)

Weighing technology
Load cell with electromagnetic force restoration (EMFR), digital, maintenance-free, with temperature compensation, manufactured in Switzerland.

Weighing terminal (HMI)
15" TFT colour display with touch screen, emergency stop button, individual user access profiles with password protection, more than 30 selectable languages for dialogue/messages, displaying of updated key-weight data, production and configuration monitors, as well as data recording and distribution in real time.

Tape speed
Continuously variable

Options and accessories – mechanical/electro-mechanical

- High-performance conveyors or precision conveyors for highest precision weighing
- Water protection design (IP65, conveyor in stainless steel with easy removal of the belt)
- Up to six additional infeed conveyor belts and/or inlet timing screw for timing and distance
- Side handle or top-bottom conveyor belts for problem-free product transfer
- Different sorting/separation devices such as the air nozzle (air flow), pusher, swing gate, lift gate, lifting belt, drop-down belt
- Product collection devices, such as collection containers in plastic or stainless steel, turntable and gravity roller conveyor
- HMI or housing mounted separately for optimum user-friendliness
- Various screens and safety measures for improved weighing result and better process security

Options and accessories – electronics/software

- Comprehensive statistical functions and printing/output possibilities
- Automatic filling process adjustment (feedback control system with eight individual controllers for filling heads), standard or extended version
- Several sensors that detect obliquely placed samples or open samples - to ensure high product quality
- Comprehensive monitoring and alarm functions, for example redundancy detection and subsequent fault detection as well as colour-coded and/or acoustic signal devices to facilitate instant reaction to product line problems
- Data interfaces and protocols, e.g. field bus (DeviceNet, PROFINET, PROFIBUS), OPC DA and UA, S232/422/485, CL20 active/passive, industrial Ethernet/IP
- Interface for the Mettler Toledo FreeWeigh. Net™ system or the ProdX™ data management system - for remote access and improved insight into production processes
- Control panel (control cabinet) in accordance with UL508A

Do you need a complete and overall checkweigher solution?
At DK EL, we are working with all phases from design to final testing and commissioning. With one full-line supplier you get a reliable checkweigher solution, which is 100 percent adapted to your needs and production environment.

* Depending on the product (sample) weight and design as well as the dimensions of the used weighing conveyor
** Within the official error margins depending on the weighed product weight, dimensions and transport characteristics
*** Certain options for conveyor and sorting/separation may increase the system's noise level