

Rugged, heavy-duty construction



XE or XS Controller

Choose between the XE controller with its 100 product memory, and high contrast color touch screen or the XS featuring a larger 15" dashboard style display and exceptional IP69K protection. Both are easy-to-learn and use, delivering fast product set-up and changeovers.



Fast, Easy Belt Change

Quick disconnect servo motor allows for a fast and easy belt replacement or easy cleaning.



Combination Systems

Cornerstone checkweighers are available with machine mounted Safeline metal detectors. Shown with the XE checkweigher control, and separate metal only rejecter, the Safeline metal detectors are a perfect addition to complete the product inspection process.



Cornerstone Beltweigh XS
Shown with
Acrylic Rejecter Cover

Ergonomically designed for easy operation

The Cornerstone series of checkweighers offer rugged and reliable performance for a wide variety and range of packaging. It can also be custom-configured for unique requirement applications. Ideal for cartons, bags, bars, pouches, jugs, and bottles, the Cornerstone series is the checkweigher of choice for many food, and consumer product installations.

Depending upon the application and type or number of optional features selected, the HI-SPEED Cornerstone checkweighers will come equipped with the industry's most advanced checkweigher controllers. From advanced production monitoring and control, integration and communications features to basic checkweighing applications, the X-series controllers will keep you in touch with your process by providing simple easy to use controls with advanced touch screen technology.

Technical Data

Flexible design

– reliable and rugged checkweighing

Proven reliable over 15 years, thousands of customers and countless applications, the rugged Cornerstone design delivers exceptional accuracies and tighter tolerances on packages up to 7 kg. Regardless of the length of the frame, the basic three conveyor Cornerstone design features a stiff central spine, full length side rails for mounting of components and accessories and only four floor contact points. Cornerstone also has a complete catalog of conveyor width and length combinations and will accommodate up to three optional rejecters capable of handling any sorting requirement or package type.

Cornerstone combination systems, with integrated Safeline metal detectors, can perform multiple product inspection tasks in minimal line space and provide enhanced safety and security to any processing operation.

Available in powder coated carbon steel for dry environments or stainless steel for wet environments and equipped with components to match, a Cornerstone will provide superior performance and accuracy in virtually any environment – regardless of how rough the application. Featuring an open frame design for visual inspection, and “no tools” conveyor removal and belt replacement, Cornerstone reduces maintenance down time and delivers faster startups after routine maintenance.

Cornerstone Standard Features

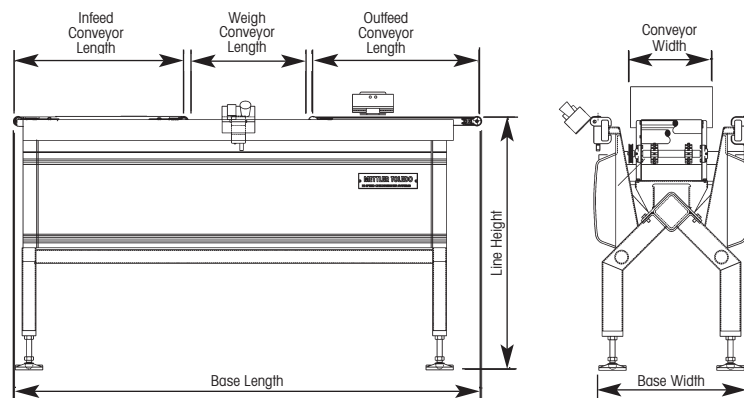
- Powder Coated Cold Rolled Steel
- 100 mm, 200 mm, 300 mm, and 400 mm Wide Conveyor Configurations
- Stainless Steel Variable Speed DC Servo Motors with Watertight Quick Disconnect Plugs
- Hermetically Sealed Stainless Steel Analog Strain Gauge Load Cell
- Frame Rail Mounted Emergency-Stop/ Start-Stop Station
- Open Frame Design for Ease of Inspection, Maintenance and Cleaning
- “No Tools” Conveyor Removal and Belt Replacement
- Height Adjustable 4” Diameter Foot with Secure Mounting Tabs

Cornerstone Mechanical Options and Accessories

- 304 Stainless Steel
- Air Blast, Air Actuated Push Off, Plow, Sweep and Lift-Up Rejecters
- Auxiliary Timing and Spacing Conveyors
- Integrated Safeline Metal Detector and Isolated Metal Detector Conveyors
- Product Handling and Transfer Mechanisms including: Side Transport Conveyors, Motorized Side Grip Conveyors, Timing Screws, Timing Starwheels, Timing Wheels, Transfer Rollers, and Guide Rails.
- Weigh Conveyor Draft Shields
- Rejecter Chutes and Catch Bins
- 460V Three Phase

Cornerstone Controls: XS Control

- Bright, High Contrast 15” Diagonal Color Touch Screen User Interface
- Informative “Dashboard” Layout Featuring 23 Separate Fields for “At-a-Glance” Monitoring of Production Processes
- 200 Product Memory
- 5 Weight Classification Zones
- Multi-Level, Password Protected Security System
- Statistics Program for Monitoring of Production Results



Cornerstone Typical Schematic

Technical Data	Cornerstone		
Type	100/200	300	400
Product Weight Range	Up to 3 kg	Up to 7 kg	Up to 7 kg
Accuracy**	From ± 200 mg	From ± 500 mg	From ± 800 mg
Maximum Line Rate*	Up to 300 ppm	Up to 160 ppm	Up to 140 ppm
Maximum Line Speed	Up to 300 fpm	Up to 300 fpm	Up to 300 fpm
Conveyor Width (mm)	200	300	400
Infeed Belt Length (mm)	300, 400, 500, 600, 800 or 1000	400, 500, 600, 800 or 1000	500, 600, 800 or 1000
Weigh Conveyor Length (mm)	250, 300 or 400	400 or 500	600
Discharge Belt Length (mm)	300, 400, 500, 600, 800 or 1000	400, 500, 600, 800 or 1000	500, 600, 800 or 1000
Base Width (mm)	513	513	513
Base Length (mm)	Total of All Belt Lengths ± 10 mm		
Line Height (mm)	925 \pm 50; Custom Heights Available		
Weighing Technology	Strain Gauge Analog Load Cell		
Standard Rejecter	Air Actuated Mechanical Push Off With Lockout/Tagout		
Motor	Variable Speed DC Servo Motor		
Power Requirements	110 or 220VAC; Single Phase, 230V Three Phase, 60 Hz, Single Drop		
Certifications/Approvals	UL/cUL; ANSI B155.1-1994		

* Depends on the Design and Dimensions of the Weighing Conveyor Used

** Depends on the Weight, Dimensions, and Transport of the Product to be Weighed

Cornerstone Controls: XE Control

- Bright, High Contrast 5.7” Diagonal Color Touch Screen User Interface
- Informative “Dashboard” Layout Featuring 15 Separate Fields for “At-a-Glance” Monitoring of Production Processes
- 100 Product Memory
- 3 Weight Classification Zones
- Multi-Level, Password Protected Security System

Control Options and Accessories

- 5, 7 Weight Classification Zones
- 200, 400 Product Memory
- Statistics Program for Monitoring of Production Results (XE Control)
- Weight Data Interface: Serial or Ethernet TCP/IP
- Fieldbus Interface Modules (FIM) for: DeviceNet, ControlNet, Ethernet IP, and Profibus DP
- HI-SPEED OPC Server
- Ethernet TCP/IP Interface for METTLER TOLEDO Freeweight.Net SQC Program
- PrintStick Reader PC Software
- Wide Variety of Production Monitoring and Control Options Including: Open Flap Detection, Mean Value Trend Monitoring, Fill Head Feedback, and Real Time Statistical Process Control (RTSPC)

Contact HI-SPEED for a complete list of options and availability



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For more information