



CORNERSTONE

**Building
Blocks**

Accuracy Commitment

Scope of the Commitment

Hi-Speed's accuracy commitment defines the repeatability and linearity of the checkweigher for your specific package types, dimensions, weight, package rate (packages per minute), and application. The quoted accuracy commitment to the customer is a guarantee that the checkweigher will repeatably measure the customer's package weight within the ± 2 sigma range in your facility, assuming proper use and installation.

Accuracy Defined

Accuracy is defined for the checkweigher by determining the distribution of dynamic weighments for your specific package and application. The distribution of the weighments, or repeatability of the checkweigher, is measured as the standard deviation. Accuracy is quoted as ± 2 standard deviations. With a range of 4 standard deviations (sigma), there is a 95% confidence that the checkweigher will repeatably weigh the customer's specific package weight.

Separately, the checkweigher linearity is defined and measured through the mean (average) error. Mean error is the difference between the average dynamic weighments and the actual static weight of the package. Mean error limits by package weight are defined by the U.S. Government Dept. of Commerce, National Institute of Standards & Technology (NIST). Hi-Speed accepts the limits as defined by NIST's Requirements for Automatic Checkweighers (Publication 14).

Factors Effecting Accuracy

The accuracy commitment is contingent upon the following items:

- Proper installation, calibration, and timing
- The tested package dimensions, weights, package rates, and application are equal the order specifications
- No mechanical interference from upstream or downstream equipment.
- Customer supplied power is within the limits defined in the service manual.
- The mounting surface and structure is stable. No excessive vibration or instability

Hi-Speed Checkweigher Systems

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