



Industrial Weighing Systems

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Weigh Modules

Are the critical measuring device for your system, pricing is generally proportional to accuracy. Care should be taken when selecting a module to give the accuracy and repeatability you are looking for. Quite often the accuracy specifications is for the load cell only and does not include mounting hardware. Economy shear beam weigh modules are often this way, as the module hardware design degrades accuracy.

Precision Assemblies are well suited for mixing, vibration, torsion, uplift, and/or overload.



High accuracy assemblies are factory trimmed to 0.1% or better.

Any off the shelf assembly will perform identical as the specifications are tested and written for the complete assembly, there is no degrade in module accuracy when installed. Only mechanical connections to your weighed vessel will degrade the accuracy. The module design has integral vessel restraint and expansion/contraction allowance with minimal affect on performance. Specifications for side load, uplift and overload are often 100% of rated capacity. (This is substantially higher than approximately 30% side loading for economy modules).

Mid Range Assemblies

Select modules with well matched load cell outputs to improve system performance.



Designs vary and often have limited specifications for side load and uplift ratings.

Care should be taken when selecting assemblies for agitated applications, side loading and vessel movement may become an accuracy and repeatability issue. The module shown includes vessel restraint for uplift and overload that is fixed to the measuring end of the load cell only and does not shunt across the cell to a fixed structure.

Performance is much better than other styles that use bolts or rods that shunt across the load cell. The bolts or shunt often bind with vessel movement causing a load error and poor zero repeatability.

Custom Assemblies

Best suited for static weighing or a single support for empty/full level applications.



These modules provide a low cost solution by attaching hardware to shear beam cells.

Specifications are normally provided for the just the load cell as any hardware will reduce accuracy and performance. Economy cells may vary as much as +/- 5% on their Mv/V output, a summing board with trim is suggested to correct for manufactured variances plus any mechanical errors.

Avoid modules that have a bolt or mechanical shunt across the cell unless your vessel is always static. The restraints cause poor zero repeatability and/or span errors.