Principle

Single Point Load cells probably account for the largest percentage of all load cells in existence world wide. They are the heart of most small bench-top scales and are also used in a wide range of other applications. Single point load cells use bending as a measuring principle.

"Single Point" is really a bad name for these load cells. "Platform" load cells would be far more applicable:

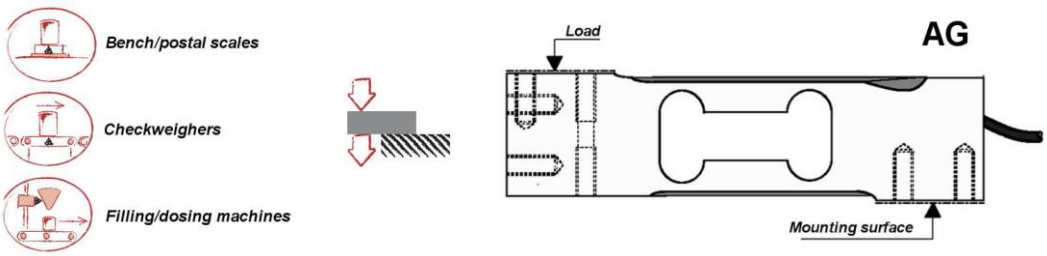
What makes them different from all the load cells discussed so far, is that the load does not need to be applied through a single mounting point on the load cell. Instead, a single point load cell will accept a platform of specified dimensions ("Max. platform size" on specification sheet) that can be bolted directly to the load cell. The load can then be applied to any point on that platform and the load cell will measure it accurately.

Usual capacities range from 200g to 1500kg.

AG single point load cell

SCAIME offers a comprehensive range of single point load cell from 200g to 1500kg. Our range comes from low cost aluminium load cells for bench scales applications up to fully welded stainless steel load cells suitable for platform scales used in corrosive or wash down environment.

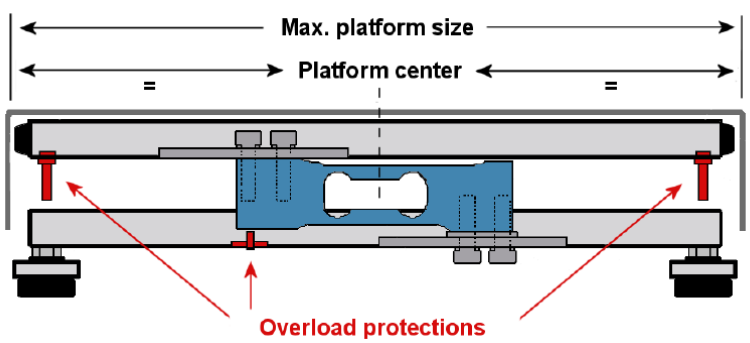
The most common type available is the AG load cell, ideally suited for single load cell platform construction.



Load introduction

You can see on the following sketch, a typical single point load cell used in platform scale application.

- ***Install and adjust appropriate overload stops to protect the load cell.***
- ***Never load in a direction opposite to the load direction specified (see data sheet).***
- ***Platform size must be less than "Maximum platform size" (see data sheet).***
- ***Load cells are to be clamped in tightly at the mounting holes, like a cantilever beam. Refer to the data sheet for the recommended tightening torques.***



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