

T30 Load Cell / Assembly

Capacity range 100T (100 tonnes) to 600T (600 tonnes)

Mounting Instructions

Models covered:

T30-100T

T30-200T

T30-300T

T30-400T

T30-600T

Mounting

Note: the 4 small transit bolts in the upper part of the assembly/load cell should be loosened just enough (1/2 to 1 turn) so that the upper part can move and take up any misalignment in the silo structure.

1. Jack up the silo to obtain a free vertical space of:
 - 275 mm for 100t load cells
 - 360 mm for 200t load cells
 - 420 mm for 300t load cells
 - 420 mm for 400t load cells
 - 420 mm for 600t load cells

2. Place the load cell on the foundation / base. Bolt the complete load cell assembly to the foundation / base using the following bolts sizes, ensuring the bolt grade is suitable for the application
 - M24 for 100t load cells
 - M30 for 200t load cells
 - M30 for 300t load cells
 - M30 for 400t load cells
 - M30 for 600t load cells

3. Adjust the position of the assembly/Load cell under the structure to be weighed and attach it loosely using the same bolt sizes and grades as per part 2 (above)

Repeat this procedure for the other assemblies/load cells.

Final adjustment

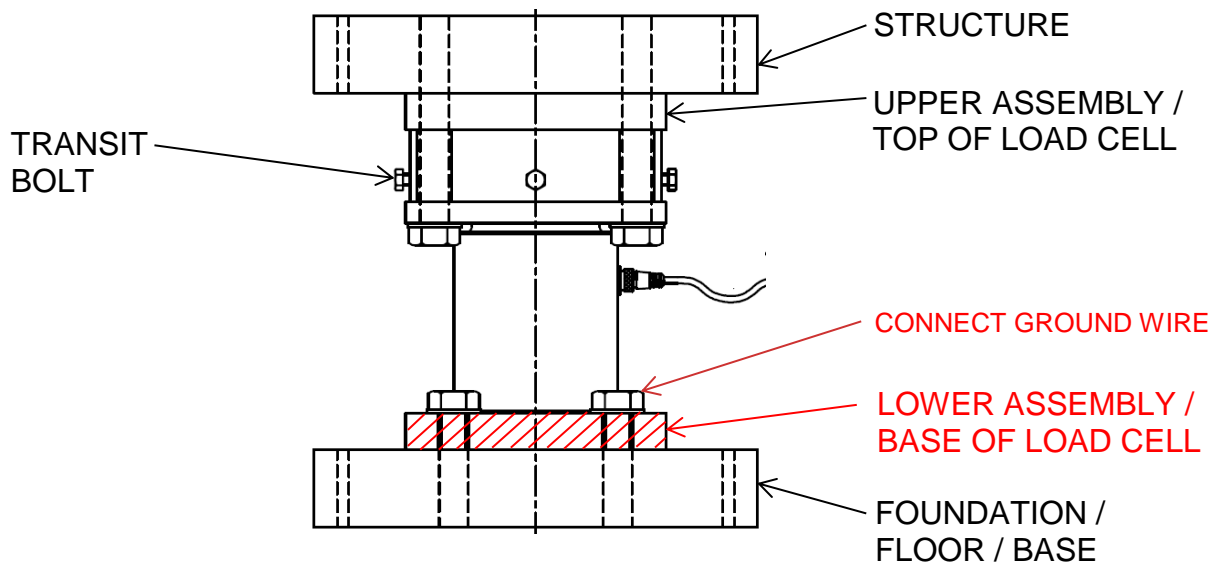
4. Lower the structure to rest fully on all the assemblies/load cells.

5. If the structure is tilting, or an adjustment in height of the structure is necessary, insert shims between the upper assembly part / top of load cell and the structure to make all assemblies level. The maximum height correction should be no more than 10 mm at each assembly/load cell.
6. Tighten all bolts attaching the assembly / load cell to the structure being weighed.
7. Make a final horizontal adjustment of the lower assembly part to ensure there are no unwanted forces in the assembly.

Note: there is a high risk of damaging the load cell and/or the load cell cable during any welding. Therefore, DO NOT fit the connector into the assembly/load cell until after any welding has been completed. Protect the connector itself and the load cell during any welding.

DURING ANY WELDING, BE SURE TO CONNECT A GROUND WIRE OF SUFFICIENT CURRENT RATING BETWEEN THE WELDING EQUIPMENT AND ONE OF THE BOLTS IN THE “**LOWER ASSEMBLY PART**” – as defined in the drawing below.

FAILURE TO DO THIS WILL INVALIDATE ANY WARRANTY



8. **Completely remove the 4 small transit bolts from the upper part of the load cell assembly (as referenced in the drawing above).**

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9. Connect the load cell cable as follows: the connector should be screwed into the connector at the load cell and ensure a good seal; the other end should be connected to the junction box. The cables must be protected as well as possible, preferably using conduit or spiral wrap protector. **Do NOT shorten the cables.**