

EMC Vessel Weighing Systems Engineering support for weighing of 30 tonne skirted Flour Silo

EMC were delighted to be recently selected to provide a weighing system for a 30 tonne skirted Flour Silo.

The weighing system is required to provide accurate inventory monitoring.

Due to the skirted silo design and potential wind loadings, the Project Manager required a top quality installation with plenty of safety margin.

EMC supplied 5 rugged DSM2 11,000kg Loadcell Mount Assemblies for this application which incorporate built-in vertical and horizontal restraints.

Five Mounts were selected as this provides greater stability and enabled the load to be spread more effectively.

Full Engineering Support

EMC's Service Engineer, Steve Hill, supervised the complete installation and commissioning.

In order to weigh a skirted silo it is necessary to lift the complete vessel so the load is taken by the loadcells.

Prior to installation, steel strengthening plates were fabricated for each Loadcell Mount position. These plates were fitted on-site to strengthen the skirt and enable the silo to be lifted approx 10mm and be supported by the Mounts.



Inside the silo base showing one of the Loadcell Mounts and Strengthening Plates



The 30 tonne skirted Flour Silo



Panel Mounted EMC2060 Weighing Indicators

EMC bolted the Loadcell Mounts to the concrete base and silo and ensured that all fabrication modifications were painted and sealed to a high standard.

A rubber sealing strip was fitted around the base of the silo to stop water ingress. Conduit was run between the loadcells and junction box to provide a very tidy installation.

An EMC 2060 Weight Indicator is installed in a cabinet, with other existing EMC 2060 Instruments, providing a display of weight and 4-20mA output.

Accuracy is excellent and the customer is well pleased with the installation.

We would welcome the opportunity to provide the same level of service for all your weighing applications.

More information?

Circle Enquiry No: 1101

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