

Instrowest belt weighing solutions

Let Instrowest assist you with your belt weighing issues. We are not a weightometer manufacturer, and therefore we can give unbiased advice.

We are able to service many makes of weightometers and are the WA service Agents for Tecweigh.

We are also able to service:

- Siemens
- Tecweigh
- Thermo Ramsey
- Schenck
- CST
- Webtech
- Belt way

Instrowest can also assist you with the rest of your process instrumentation requirements. Feel free to give us a call or contact us via email.

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Siemens MSI / MMI Weightometer – NSR

Instrowest services a number of clients in the Pilbara with onsite weightometer calibrations to ensure accuracy and reliability on a range of weightometer brands.

Instrowest was conducting regular weightometer calibrations for Northern Star's Paulsens Gold Mine and was able to track the gradual degradation of a site critical weightometer before it became a major issue. The weightometer was mounted on the Mill Feed conveyor, fed directly from a Fine-Ore Bin. The overall installation was good, however the weigh frame was of a poor design and quality, with numerous openings for rocks and debris to become lodged and hinder the performance of the frame.

Instrowest noticed that unstable and inaccurate readings were becoming more prevalent each month and that the systems reliability was becoming questionable. Instrowest suggested that the best course of action would be to start fresh with a new weighing solution. This involved the removal of the existing weightometer and the installation of two new Siemens MSI weigh frames - a BW500 Integrator and a TASS speed sensor to construct a MMI installation.



Previously installed weightometer frame



Instrowest recommended the Siemens MMI Installation for the following reasons:

- Accuracy of 0.25%
- Simple and robust design with minimal areas for rocks and debris to become lodged
- Easy cost effective installation, resulting in minimal downtime
- Excellent linearity
- Ease of use
- Proven reliability

During a plant shutdown two Instrowest technicians managed to complete the install, without the need of cranes or belt removal.

Once the new weigh frames were fitted, Instrowest shimmed up all the idler frames and weigh frames to achieve level mounts for the balanced and adjustable rollers. All idlers were spaced exactly the same distance apart over the weigh area to ensure that the load was evenly distributed. Once all the idler frames were fitted, Instrowest re-used the balanced and adjustable rollers to reduce costing for the client; these were string lined to ensure that a perfectly aligned weigh area was achieved. These rollers needed very little adjustment due to the attention to detail in aligning the frames earlier.

Instrowest then commissioned the weightometer completing a speed, zero and span calibration

In total the whole Installation was completed within 14 hours.

Results

The new Siemen's weightometer installation has been installed for over 18 months and has proven to be accurate and reliable. Instrowest's client has been more than happy with the achieved results and we continue to record exceptionally low error deviation figures each month.



If you would like Instrowest to assist you with your belt weighing problems please contact Instrowest.

Email: admin@instrowest.com.au

Or on our website: instrowest.com.au