

# EMC Belt Weighers

## Weights and Measures approved



*W&M approved EMC B152 Dual Idler Belt Weigher installed on the enclosed load-out conveyor. Inset shows the B152 model.*



EMC were delighted to be awarded the contract to supply two EMC B152 Dual Idler Belt Weighers for installation in the coal handling facility at the Port of Tauranga, now run by Toll Owens Ltd.

Our customer, Works Infrastructure / Cortex Joint Venture, required two different sized B152 Belt Weighers complete with EMC Control Package, to measure the weight of coal on their inward and outward conveyor lines.

Coal is shipped into Mount Maunganui, from Indonesia in 30,000 tonne lots and is loaded into a large coal storage building via conveyor (the building can hold up to 65,000 tonnes of coal).

The EMC Belt Weigher system on this conveyor line has a belt width of 1200mm and a flowrate capacity of 2000 tonnes per hour.

The EMC Belt Weigher system on the load-out conveyor line has a 1050mm width and 800 tph capacity. As mentioned, this particular Belt Weigher required Weights & Measures approval.

### W&M Approval

The Trading Standards Service (Ministry of Consumer Affairs) specifies the size of load required for testing an approved Belt Weigher. This is based on the length of the conveyor and flowrate.

To be approved we were required to pass loads of between 50 and 60 tonnes over the Belt Weigher. Consecutive tests had to be within 1% of the load, as confirmed on a recently checked weighbridge.

W&M tests on the installed Belt Weigher were carried out in March. Bruce Scott from Toll Owens Ltd and John Ball from EMC were on site and the whole test went without a hitch.



*Enclosed coal load-out conveyor system. Picture below shows a train being loaded from the storage hoppers.*



*Loading the truck in coal storage building prior to weighbridge checking*



Using front end loaders the coal is loaded onto the outwards conveyor which is fitted with a Weights & Measures approved EMC Belt Weigher. This coal is placed into storage hoppers above the railway line and 16 times a week, trains are loaded and the coal taken to Huntly power station.

### W&M test results

<b>Test 1:</b>	Belt Weigher:	52.99t
	Weighbridge:	53.232t
	Error:	0.45%
<b>Test 2:</b>	Belt Weigher:	51.39t
	Weighbridge:	51.357t
	Error:	0.06%

This was an excellent result and the Belt Weigher was approved and stamped and is required to be checked and tested again in 12 months.

### More information?

Circle Enquiry No: 0502

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