

inBulk

TECHNOLOGIES

CASE STUDY

Material	Cement
Application	General Construction
Bulk Density	1.3T/m ³
Location	Monterray, Mexico
Date	April 2004
Unit	20' H-Type ISO-veyor (Carbon Steel)

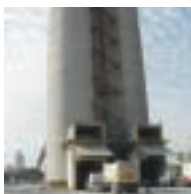
During 2004 **inBulk Technologies** were engaged by International Cement Group – Cemex, who were eager to trial the ISO-Veyor for use in cement applications.

The ISO-Veyor unit was the standard 20' H Type in Carbon Steel with a working volume of 25m³. The H Type is also available in 30' or 40' dimensions giving improved payloads for less dense products. The ISO-Veyor began its journey by being loaded onto the hull of a ship in the UK for the long sea journey to Mexico. On arrival at Altamira Port near Tampico the ISO-Veyor was then transferred to rail wagon by a reach stacker for the onward rail transportation to Monterray.

On arrival to the cement plant, the ISO-Veyor was loaded onto a flatbed skeletal road trailer and positioned under the loading silos. Standard dustless loading system for trucks were used to top fill the unit through 1 of 3 x 450mm hatches on the top of the ISO-Veyor. The ISO-Veyor has a payload of 27 tonnes of cement.

Further to filling, the ISO-Veyor was cleaned before making a short road journey to the batching plant for discharge into a 70 tonne silo.

The unit was refilled and driven to another batching plant in the Monterray area and discharged entire contents in 35 minutes via a straight 40-meter vertical pipeline.



After discharge less than 25 kilos of residue remained.

At the third location Cemex's driver "Victor" operated the discharge. Smooth discharge occurred within a similar discharge time of 37 minutes.

Cemex agreed that the ISO-Veyor performed very well and commented that the payloads, discharge times and residue all pointed toward a very successful trial.

The Cement trial with Cemex, illustrates several key benefits to the industry:

- Fully intermodal – Capable of any combination of road, rail or ship
- Easy to Fill – Can be filled in same way as road or rail tankers
- Easy to Handle – Standard ISO frame allows for standard container lifting equipment
- Easy Horizontal Discharge – Simple connection to 2 barg compressor provides discharge rate of 1 tonne per minute
- Provides flexible weatherproof storage and reduces dependency on silos
- Creates platform for driver controlled deliveries

Overall ISO-Veyors minimise product handling, eliminates contamination, maintains product quality and also protects environment from accidental material spillages. Taking these factors together, ISO-Veyors can significantly reduce the requirements for intermediate handling, reducing the requirements for silo construction and dramatically enhances the overall efficiency of the supply chain.



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