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Puerto Angamos achieved an operating record by transferring 2 million tons of bulk mineral, mainly copper concentrate with flip-up containers.

The figure corresponds to the accumulated movement since implementing the rotating container technology. This has made, according to the company, the transfer of mineral bulk more efficient, attracting new customers who have opted to use this terminal of the Mejillones to send their production abroad.

The general manager of Puerto Angamos, David Álvaro, stressed that *"the new scenarios and challenges of the mining industry have required greater levels of flexibility and efficiency, in which we have been able to accommodate ourselves with the same quality of service that has identified us since our inception. Exceeding the two million tons of bulk transferred is a reflection of a job well done, planned, with demanding goals and fully meeting the great challenge of raising the operational standards in matters of work safety and care for the environment. This system, implemented in October 2014, has allowed the terminal to position itself as a benchmark in the national port sector"*.

David added that *"the decision to invest in the implementation of innovative technology for the country, as were the flip-flop containers, was successful. We have been pioneers in Chile in offering this system, adjusting to the needs of our customers, offering solutions for the development of their activities and projecting the port towards sustainable growth over time, diversifying our burden towards new markets, such as the bulk market"*.

Before making the decision to use open top containers, the company analyzed in detail the complete logistics chain associated with this technology, which included, among other things, a visit to Australia to port facilities that had already implemented the novel containerised bulk handling system.

The **containerised bulk handling** process that is currently applied has the advantages of being simple, clean, safe from the operational and environmental point of view, as well as being highly efficient, since it implies zero material emission losses.

The logistic process begins when the container is loaded with bulk from the mine, where it is also weighed, sealed and washed. Before arriving at the port, two inspection elements are carried out at the exit of the mining operation and at the entrance of the terminal, where it is verified that the cargo is sealed during the entire transport process. Then the containers are taken to a holding area, waiting to be taken by truck to the terminal's boarding area. Afterwards, they are positioned inside the hold of the ship (*by a rotating spreader called RAM Revolver®*), where a system is activated that raises its lid and (*the RAM Revolver®*) rotates the container 360 degrees to deposit the mineral inside the ship. To capture possible particles in suspension, **dust suppression** equipment is installed on the mouth of the ships' hold to minimize any impact on the environment. Finally, the container is vacuumed and returned empty to the mine, culminating, in this way, the logistics cycle.

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<https://portalportuario.cl/puerto-angamos-supera-transferencia-2-millones-toneladas-granel/?platform=hootsuite>

