Terminal Puerto Rosario has revolutionized the world of cargo and bulk storage, becoming the first port terminal in America to implement the Revolver system.

This innovative system is based on a new concept that allows storage of bulk material in specially designed 20ft containers and manipulated like any other standard container. The loading of commodity into the ship is performed using rotating spreaders, taking the container and rotating it through 360 degrees on its axis tipping the commodity gently inside the ship's hold.

This not only results in obtaining the highest standards of performance load, with results up to 1000 tons / Hs for products such as grain or flour, but also considerably simplifies logistics, handling and storage avoiding the need of conveyors or silos that represent large investment and maintenance. Under this new concept, the container is the silo and also the vehicle.

Additionally, this is a clean and friendly solution to the environment, especially important during the handling of bulk food, as the material is sealed at the facility and does not come into contact with the environment until it is tipped into the ship's hold, thus ensuring product quality at all times.

This new method of operation has great potential, not only for the most varied types of food bulks but also mineral bulks of different densities. It is a sure bet from this TPR case study that it has global potential for ports and companies seeking to walk the path to innovation.