

Cerro Lindo Mine

Cerro Lindo Mine is a Peruvian based poly- metallic mine (zinc, lead and copper with some silver) located in Chincha province and is expected to yield 146,000 tons of zinc concentrates, 39,500 tons of copper concentrates and 14,800 tons of lead concentrates per year.

Opened in July of 2007 and located about 60 km from the coast, the Cerro Lindo Mine uses only desalinized seawater in their operations. The pulp tailings are partially dehydrated which reduces the volume by roughly 60%, compared to conventional liquid tailings. The tailings are used as backfill and thus must be pumped up to 8km in paste form. While this method is environmentally friendly, it also presents operational challenges as the abrasive tailing paste is pumped through Sch. 80 pipe which requires 160 bar (2,320 psi) of pressure and a coupling every 6 meters.



location

Chincha Province, Peru



year

2014

application

Tailing Paste Disposes
High Pressure Pipelines

productline

VSH Shurjoint

architect

Mining

Cerro Lindo Mine

The mine had attempted using heavy duty grooved couplings in conjunction with weld supports, without the desired results and benefits of a mechanical joining system. Shurjoint Piping Products solution for the challenging project requirements was the Shurjoint Model RX-3000 Ring Joint Coupling. The project used 1200 pieces double-bolted 200 mm (8") mechanical couplings rated up to 210 bar (3,000 psi) working pressure. The Shurjoint Ring Joint system provides a more secure joint than that of a comparable standard grooved or shouldered joint, as the coupling fully engages the pipe and ring offering excellent end load, shear and shock resistance. In addition, Shurjoint Ring Joint systems maintain full bore flow and full pipe-wall thickness, which is often required in abrasive media applications.



Ring Joint system provided a much more secure joint than standard grooving joining method, no need to weld extra device to increase the security.



Rings can be prefabricated on the pipe ends

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Shurjoint #RX-3000 8" Ring Joint Coupling



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Shurjoint #RX-3000 Ring Joint Couplings used
in conjunction with 80 pipes



Tighten bolts and nuts until bolt pads make metal
to metal contact. No torque wrench is required.