

Tunnel Refurbishment
State Highway 1 Kaikoura Road Tunnels

Client: NZTA / NCTIR

Project Engineer
Raphael Sierra Ballen 027 499 7912

NZTA took the opportunity presented with equipment and skills on hand during the Kaikoura Earthquake rebuild to increase the width, height, and strength of the state highway 1 road tunnel at Kaikoura. The work was done under NCTIR umbrella and involved milling out the greywacke sandstone tunnel rock, pattern bolting and shotcreting. Geotech employed its Erkat transverse milling head mounted on a 30ton excavator, drill jumbo, Sandvik Torro 307LHD and shotcrete machine. The project was done under the 2016 Mine Operations Quarry Operations regulations.

A good outcome resulted and the Geotech team received plenty of encouragement and messages from the long-haul truck drivers with big rigs that previously had difficulty fitting in the tunnel.



Geotech remote controlled head shotcrete machine, note long extension boom.