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Successful strip-out by Brokk 90 in Australia

Piranha Services Pty Ltd is a medium size demolition company based in Melbourne. The business specializes in multi-story building strip-outs and operates with a staff of 25.

Piranha Services was contracted by Bovis Lend Lease to strip-out 6 floors of existing office fit-out within 101 Collins Street, being one of Melbourne's prestige business addresses consisting of 55 floors.

On the 44th floor existed a fire corridor constructed of block work and concrete that needed to be demolished. The corridor had been constructed only leaving at its maximum approximately 120mm gap between the top of the corridor and existing services, i.e. mechanical, plumbing, fire and electrical.

Conventional methods of removing the corridor could not be used due to occupational, health & safety, and access reasons - cutting and/or jack hammering by hand would have to be done overhead, involving a great quantity of manhours and the risk of injury.



The Brokk 90 and its capabilities were known to Chris Miller the Managing Director of Piranha Services. He had seen the Brokk working on a stair case at a job some years ago.

Hence, Tony Mace at Kiwi Operations Downunder Pty Ltd, the Brokk distributor for Australia and New Zealand, was contacted for assistance. A paid demonstration was then arranged.

The size of the fire corridor was 15 metres in length, 2.5 metres in height and 1.2 metres in width. The walls were block-work and the ceiling was a 100mm concrete with light reinforced slab.



A Brokk 90 (being a 1 ton machine with a 4 metre reach) equipped with an Atlas Copco SB 150 rock breaker and Brokk CC 320 crusher was used. The crusher was used to complete 90% of the work as it is the quieter less aggressive option compared to hammering. The trimming was completed using the rock breaker to within 10 millimeters of the building core.

The Brokk was used to demolish approximately 2 metres of the corridor at a time, the rubble was then cleared away by hand into wheel barrows, which were emptied into a skip at the loading dock. This procedure maintained a clean work site and prevented excessive weight of the floor.

The Brokk clocked seven working hours and completed the job well within expected time limits.