

# BENEFICIATION PLANT DEMOLITION.

**Location**  
Port Headland, WA

**Client**  
BHP Billiton Iron Ore

**Duration**  
6 months



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## Project overview

Liberty Industrial was engaged by BHP Billiton Iron Ore to safely demolish and remove the complex and challenging Beneficiation Plant at Boodarie, Western Australia. The project consisted of the demolition of heavy mining infrastructure and a network of overhead conveyor lines along with the removal of 19,500 tonnes of inground concrete.

The conveyor lines were demolished using the combination of 120 tonne and 70 tonne excavators with third member rotating shears by weakening the legs of the structure and pulling it to the ground in a controlled manner.

The demolition of the main plant was achieved mechanically, utilising our 230t Liebherr 994 with custom grapple attachment. The excavator pulled the structure apart, working in combination with a smaller fleet of excavators equipped with shear attachments. The plant was then systematically demolished and processed the steel into pieces small enough for export.

The inground concrete structures were excavated and exposed and then broken into manageable pieces using hydraulic rock breakers on 36 tonne and 46t tonne excavators. The concrete rubble was then loaded into a 40 tonne moxy for transport to the onsite concrete storage yard. There it was pulverised to 80mm minus and had the reinforcing removed.

