

NATIONAL RESOURCES

REVIEW

Demolition company
flattens all competitors

Australian Prime Minister
launches construction of Ichthys

Aboriginal Heritage Act review
misses the mark



DEMOLITION COMPANY FLATTENS ALL COMPETITORS

The continuous increase of mine site expansions across Australia is causing a boost in the demand for demolition services for existing structures. Demolition work is considered to be a challenging and high-risk environment. Recognising these risks and challenges, Liberty Industrial is revolutionising the industry by minimising the risks associated with demolition work methodologies, using innovative three-dimensional modelling technology.

Liberty Industrial is the exclusive Australian agent for Extreme Loading Software from Applied Science International, LLC (ASI), a tool which analyses the demolition of structures. The software is the next generation in demolition simulations, using 3D modelling to specify demolition scenarios before work commences on site. The tool is transforming the way in which demolition methods are developed and minimises risks for clients, particularly those with large and technically challenging projects.

Liberty Industrial was established in 2008 and started off as a consultant company in the heavy industrial industry. At the time many demolition companies were being sold, some were retiring and others just lost their proficiency in the field.

“Our clients were complaining about the lack of expertise and suggested we expand our business from being just a consultant company to offer demolition services too. The move helped bridge the gap between client and contractors and meant many more opportunities arose.”

Liberty Industrial currently specialise in the mining industry but are also looking at expanding their services into the oil and gas sector where their new technology would do extremely well.

Clinton Dick from Liberty Industrial says they are currently the only demolition company in Australia using the ASI software.

“We have used it successfully for several projects and we believe it is the future of the demolition industry. The software lets you have full control over the structure from the office and leaves no room for surprises once work commences, thus easing our clients’ peace of mind.”

Demolition work is one of the most dangerous services being undertaken on mine sites, but ASI’s demolition simulations replicate each element of the structure to determine its behaviour during demolition and collapse, creating a much safer environment. The

software simulates a structure which allows contractors to analyse several methods and ‘what-if’ scenarios to identify the safest and most efficient technique. By visualising what will happen in any given scenario, it gives us an understanding on what needs to be done to achieve highest safety.

“Even before a project commences we already know what the result will be. The risk navigation makes the client aware of each hazard involved in the demolition work. The simulation enables us to assess all possible risks and to tweak the demolition methods if needed, resulting in a well-executed project.”

“By applying this innovative software we put a big gap between ourselves and our competitors. Our attention to safety and our state-of-the-art equipment sets us apart from everybody else in Australia.”

A CHALLENGING PROJECT

Liberty Industrial used the software for the biggest demolition project they have undertaken so far at BHP Billiton Iron Ore’s Hot Briquetted Iron



(HBI) plant in Western Australia's Port Hedland.

The HBI Plant was one of the largest of its kind in the world when it was built and was the first to be constructed in Australia. As it was no longer in use and had to make room for other expansion on the site, it had to be demolished. The plant measured 100m high and used some 25,000 tonnes of steel, making it one of the largest, most challenging demolition projects in the southern hemisphere, but Liberty Industrial took it on with their known expertise.

"The project was a perfect example, where 3D modelling excelled all other systems and helped ensure the structures collapsed exactly as we had envisioned."

HIGH-TECH EQUIPMENT

Clinton and Simon Gill (Liberty Director) have more than 17 years' experience in the demolition sector and undertake projects Australia-wide and throughout the Asia Pacific region.

"Simon and I have a common goal and we are both from an engineering background and have wide industrial knowledge; Simon's experience has given the business some extra expertise."

Liberty Industrial's aim is not only to achieve the required outcome; they aim to exceed client expectations with their professional service and successful results. Their goal is to set a new benchmark for excellence in the Australian demolition industry.

But Liberty Industrial's focus on safety doesn't stop at the 3D modelling; it extends to their selection of equipment.

Liberty Industrial is the owner of the largest state-of-the-art demolition excavator in

Australia, weighing in at 230tonnes, it was commissioned for the demolishing of the HBI plant. The machine and its attachments were custom-built for Liberty Industrial and has great reach and a bigger pulling power than any other demolition machine in Australia. The Liebherr 994-200 excavator can reach up to 18m into a structure, making it both safe and practical.

"Bigger machines are more efficient and much safer; it can't be compared with other machines in the demolishing industry because it can pull absolutely any structure apart and does so safely and easily."

ENVIRONMENTALLY RESPONSIBLE

Liberty Industrial understands the need to be environmentally responsible and recycles 90-95% of all the materials generated on projects. Even though it is still costly and time consuming it is a no-brainer given the monetary return ferrous and non-ferrous materials.

"For us, recycling is a natural thing and we try to recycle as much as we can with as little as possible going to landfill. This includes ferrous and non ferrous materials as well as concrete."

For more information contact Liberty Industrial on 1300 100 180 or go to their website www.libertyindustrial.com.au



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