

Baker & Provan Engineering News

Heavy Engineering & Reclamation Specialists



December 2007 Newsletter

■ Minehunter Training Crane Test

Baker & Provan over the past 18 years has delivered various cranes and davits for the Royal Australian Navy over 5 different class of ships. One of the more versatile cranes is the minehunter crane as it is a telescopic, knuckle boom crane, which is shock rated. This crane is used to handle mine countermeasures equipment as well as the boat.

The picture below shows one of our Service Engineers, Mick Bowler, testing the training minehunter crane. This crane is located on the wharf at HMAS Waterhen, in the Sydney suburb of Waverton, where the Minehunter fleet is based.

Probably the most recognisable feature in the photo below is the patrol boat 202 in the background, which has starred in the recent Australian production - Sea Patrol.



■ Turning, Milling & Exporting to Asia

Baker & Provan's 11 CNC machines and various conventional machines provide a versatile range of machines to manufacture components that are internationally competitive products. The type of torsion bar in the photo below is turned on our CNC lathes, where the bar is a special material supplied from Europe. The splines on the end are then cut using Baker & Provan's 4 metre CNC bed mill with an indexer. The amount of metal removal is relatively minor, however the intricate and accurate machining, in an efficient way, makes this



process a success story. The bars are then heat treated, checked, packaged and shipped to Asia on behalf of our Australian customer.



■ Fitters with a Can-Do Attitude

Baker & Provan's fitters are often called on to assist with various interesting jobs. None more so than this sheet inverter for a production line (photo above). This job was won by providing the fabrication, machining and assembly of the inverter as an in-house capability where the turnaround had to meet a specific and tight installation window.

As this machine was a one-off, custom built design, there were many modifications and improvements that were made on the fly, to finish the job on schedule and to the customer's satisfaction. Our team of fitters are more frequently called upon to work to tight deadlines and exacting quality requirements for small and large engineering components. The fitters that helped complete this creative mechanical design were Michael, Anwar, John and Justin.

Did you know...

that Baker & Provan can repair machined parts (including steel and cast iron castings) without welding and without distortion. Furthermore, the repair procedures have been used in the marine sector for decades, with many repairs endorsed by Lloyd's Register. The elimination of heat and hence distortion during repair is critical for precision machined parts with a high replacement cost... and the process used is not metal spray.

BAKER & PROVAN

HEAVY ENGINEERING & RECLAMATION SPECIALISTS

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