

Baker & Provan Engineering News

Heavy Engineering & Reclamation Specialists



October 2008 Newsletter

■ A Davit in Full Flight



...Not that davit's are meant to fly.

The picture on the left shows a Royal Australian Navy FFG Davit up in the air about to be re-installed on an FFG.

The picture below left shows the davit in multiple pieces being worked on in Baker & Provan's workshop in Sydney. The davit is stripped, surveyed, overhauled (mechanical and electrical) and re-tested prior to being shipped.



The picture on the right shows the davit being lowered into position with an unmistakable back drop.

Not a bad view to work from if you can get it.



■ 5 Metre Pinion Gear and Shaft

Baker & Provan's large machining capability means that it is often requested to machine some interesting pieces. The picture below shows a pinion gear and shaft approximately 5 metres in length being machined by Peter McDonald, keeping a close eye. Baker & Provan's large lathe capability is 12 metres between centres, with 1.4 metre maximum swing and maximum 1.1 metre diameter over the saddle.



■ Now That's a Nice Set of Winch Drums

The picture below shows a pair of heavy duty winch (or rope) drums that were fabricated and machined at Baker & Provan's workshop. These heavy duty winch drums were for Bluescope Steel Port Kembla steelworks. These were a second and larger set that was manufactured and delivered to Bluescope Steel.



With a high rated load, the drums had a forged spindle shaft welded into the end plates and internal webbing for added strength.

The picture below shows the end plates ready to go on to the drum in the background. One of the important steps that Baker & Provan performed during the fabrication process was to check the drum for concentricity after the internal webbing of the drum had been welded into position. This intermediate step needed to be performed before the end plates were welded into position.



You might be able to make out this machining mark on the drum.

The picture on the right shows the drum with the rope grooves being machined on Baker & Provan's 12 metre CNC floor borer with a 30 tonne turn table. One of 12 CNC machines within the workshop.



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