Hofmann Engineering Pty Ltd



Established 1969

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Designing, Engineering, Manufacturing and Refurbishing Precision Equipment

DRAGLINE TUB **HOFMANN BENDIGO**



Bendigo has a long and proud history manufacturing equipment more than 200 times the weight of your average family sedan. completion of a dragline base by Hofmann Engineering Bendigo 4 main pieces is in excess of 80 tonnes. for a major Queensland coal miner. Looking something like a The large gear segments were fabricated in Bendigo before ground and bears the weight of the massive 3000 tonne struc- bourne. ture spinning around on top of it.

and gears that provide the rotation of the dragline frame.

The scale of these steel components is difficult to comprehend. turing tradition looks set to continue. The completed dragline base weighs in excess of 360 tonnes,

for the mining industry. This month saw further progress with the Even broken into sections suitable for road transport, each of the

UFO, the "base" is the section of the dragline that sits on the transport to the Hofmann precision machining facility in Mel-

In Bendigo, Hofmann Engineering employs 77 people including Hofmann Engineering also provided the massive slew bearings 10 apprentices. With this project being completed on time, within budget and without a lost time injury, Bendigo's proud manufac-

By Sam White

HOFMANN INVESTS IN NEW DMG TECHNOLOGY



capability allows the table to rotate up to a speed of 800rpm, Hofmann Engineering can produce for the future. with an electric motor actuated table producing 36 kW of power.

Engineering The new DMG will ease the amount of work that is put on the has recently installed a existing DMG 210 P, and allow the larger DMG to focus on ma-Brand new DMG DMU chining larger items. The new DMG will be able to machine Spi-80 FD DuoBlock, with ral Bevel gears, Double Helical gears with no gap, 5 axis aeromilling and turning capa- space parts, and due to its turning capabilities, it can now perbilities. The acquisition form power skiving operations for cutting teeth at high speeds. of the machine enhanc- The fleet at Hofmann's is growing fast, with a second hand DMU es the speed, accuracy 80 recently installed to further divide the workload between the and flexibility with which Hofmann Engineering can manufacture machines. Hofmann now has 9 x 5 axis machines. This steady precision components. The machine boasts an 800mm diameter development of 5 axis milling machines at Hofmann Engineertable allowing for 1000mm diameter workpieces. The turning ing's disposal, improves the variety and quantity of products that

Bv Karl Hofmann



HOFMANN PURCHASES FALK FACILITIES IN NEWCASTLE



Australia Pty Ltd.

Prior to the acquisition by Hofmann the facility was utilised for In June the facility was visited by the Hon. John Barilaro MP gears, and also for gearbox assembly and overhaul. Under the the Newcastle region.

Hofmann Engineering completed the acquisition of its Newcastle Hofmann banner the plan is to grow the business across the manufacturing facility in March 2015. The acquisition includes broader Hofmann product portfolio. Initial focus is on realising land area of approximately 10,000 sq. metres, a large workshop maximum benefit from the facility's relative proximity to major of approximately 3,800 sq. metres, a 540 sq. metre gearbox clients involved in mining, ports, defence and other industries. A shop and offices. The facility was previously operated by Falk recent successful project was the overhaul of Propel and Swing planetary gearboxes for mining shovels for Rio Tinto.

heavy machining and gear cutting, particularly related to miner- Minister for Regional Development, Skills and Small Business as als processing equipment such as mill heads, trunnions and girth a show of government support for Hofmann's initiative to grow in

HOFMANN HPGR ADVANCES



HPGR technology has come a long way since it was invented and patented in 1978 by the German Professor Klaus Schoenert. Today the techology plays a key role in comminution circuits with an estimated 250 installations in mineral processing in the western world.

In recent times Hofmann Engineering has rapidly developed both their technology and footprint in the global market through supply of product improved replacement HPGR components and services.

Technical advances centre around a patented bolt on edge protection system & metallurgical optimisation in tyre design and tyre weld rebuilding. Through detailed analysis and selection of tyre geometries and carbide grades, each replacement HPGR tyre set Hofmann Engineering manufactures is tailor made for the given application. The patented welding and heat treatment procedure Hofmann Engineering has developed allows operational life cycles in excess of former limits for forged tyres. The specific weld procedure ensures that there is no risk of weld delamination as was found in conventional processes for the refurbishment of HPGR tyres. This has been proven to be a success in the field with Hofmann Engineering's first two sets of 'weld rebuild to as new' tyres being decommissioned with no surface or internal flaws.

Ultimately Hofmann Engineering's prescence in the market has delivered some overdue competition leading to large cost savings in comparison to OEM supply which is desperately needed in the current tough economic conditions.

Current continents of supply include Australia, Asia, North America and South America for various HPGR OEM equipment.

By Jarrod Hofmann



New HOFMANN SUDAMERICA Workshop

In 2014 the Hofmann Engineering Group acquired some 20,000 lished player who provides maintenance and repair services for a m² of land in the area of Antofagasta/Chile in order to expand its large range of products, with a recognized expertise and with business activities in South America, and to establish a Service proven results in the market of South America. Centre. The new facility is designed to rebuild and service all Hofmann products and components for our customer's key equipment. Currently construction for Hofmann Engineering Sudamerica's (HESA's) new home base is completed. Thanks to the effort manufacturing and service support as the technically and comof many individuals within the Hofmann Group the new Service mercially attractive alternative to the OEMs. Centre has commenced operation in March 2016.

Since the 90s Hofmann Engineering has been supplying parts sists of a team of 9 local professionals who provide our company and services in Chile to the back then just starting project Minera with the required skills to keep growing Hofmann Engineering's Escondida of BHP Billiton. In the following years Hofmann's in-reputation for high quality, precision and improvement engineercreased its presence in the region and developed business rela- ing proudly into the future. tionships with many other customers in Chile, Argentina, Colombia, Peru and Brazil. Today Hofmann Engineering is an estab-

The new Service Centre is designed to further reinforce Hofmann's footprint in the region and to cope with the growing demand from our customers in terms of components improvement,

The local team of Hofmann Engineering Sudamerica today con-

By Stephan Kirsch

HOFMANN CHINA



In recent times Australia's strong ties with China have been further formalised through the signing of the Chinese free trade agreement 'CHAFTA'. Similarly, to react to an ever growing demand for competitively sourced raw materials, Hofmann Engineering has set up a sourcing and sales office in Ningbo, Zheijiang Province in late 2014. Building on Hofmann Engineering's 15 year presence in the region, the office with full time employed engineers, expeditors and in-

spectors allows Hofmann to be more self-reliant and react fast to inspection, enquiry and expediting requirements. Currently, Hofmann Engineering imports approximately 500T per month of raw material products such as forgings and castings from China for further value adding in our Australian workshops. By Jarrod Hofmann

Congratulations

Congratulations to all staff who have reached milestone anniversaries with Hofmann Engineering, especially to:

35 years: Reinhard Fatzkampter; Mike Tymus 30 years: Tim Robson; Ziggy Swalski; Bruno But-

25 years: Joachim Strauss; Michael Dyson; Peter Crawford; Adam Kilijanski; Ian Martin

20 years: Hermanus DeGoede;

Rebecca Leigh; Alan Spooner; Andrew Lill; Gavin Rodgriges: Andreas Voigtlander: Dean Schultz: Robert Fernandez; Mike Hill; Dennis Saric; Sean Tinoo; Wayne Bengtsson; Sylvia Blackburn; Brian Pelham; Ross Holloway; Leigh Sizer

15 years: Chris Lackner; Derek Amy; Rane Ender; Mario Gallina; Guy Jarrett; Paul Waters

10 years: Robert Godbeer; Rod Kissick; David Reynolds; Patrick Simeons; Basil Rodrigues; Adrian Fooks; Andrew Kinninmont; Paul Johnston; Dave Dyer; Stephen Turner; Marat Zheldubayev; Ashok Vilvanathan; Monika Panizza; Philip Ellison; Daniel Marcus; Poul Mariannan; Laurence Brooks; Gary Clark; Vanniya Pandian; Thomas Montefiore; Marc McDavitt; Theo Komninos;



FMG/CHRISTMAS CREEK CHALLENGE



In October 2014, FMG Christmas Creek approached Hofmann Bendigo and elsewhere over a 25 day period. The shutdown Engineering to provide the skills and resources needed to carry work was conducted in especially difficult and challenging condiout extensive recovery repairs to their Scrubber Trommel's, tions. All involved rose to the occasion and the client was exwhich were close to catastrophic failure. The structural support tremely pleased when the overall shut was completed 2½ days stiffeners had suffered extensive wear and in places original ahead of schedule. FMG Shut Supervisor stated: "A very difficult material thickness of 32mm was worn to 4mm. An urgent re- job was executed safely and well under the original program ... sponse was required, which meant mobilising 24 personnel from The way Hofmann reacted and turned the job around was exem-Site Services and the majority of the Fabrication department of plary." Bassendean, rising to 34 crew with additional personnel from

by Adrian Fooks

MILL HEAD REPLACEMENT

Yamana Gold in Chile urgently requested Hofmann Engineering's assistance as they had a cracked Mill Head that required urgent replacement. A Fabricated Mill Head with integrated forged Trunnion was offered in 6-8 weeks, however manufacturing was completed in an

> industry record of 4 weeks from design to customer final inspection. Yamana Gold thanked Hofmann's for "An outstanding effort by all concerned." Due to the urgency the Head was transported direct to Chile via Antonov airfreight.

> Chirano Gold Mines in Ghana approached Hofmann Engineering as their Mill Head was also cracked and required a replacement. Our initial response was to despatch a team to Ghana to measure and assist with removal of the damaged Head / Trunnion, which identified that the Head / Shell interface was badly washed away. A replacement forge fabricated Head was designed and

manufactured along with Trommel and associated components. During the manufacturing lead-time our Site Services team were mobilised to the mine with a Large Facing Machine to machine the Shell washout and prepare for the installation of the replacement Head. All the components were despatched by Antonov airfreight and installed by Hofmann Site Services 3 months after the initial enquiry in March. The Mine Engineering & Maintenance Manager stated: "Huge success story in Kinross, you guys did an awesome job, can't say enough praise for all the site crew and of course the team back in Australia who produced all the parts with such precision. Really well done!." by Adrian Fooks

