

Rosebank – Focused on innovation and excellence

Based in Melbourne's outer suburb of Bayswater, Rosebank Engineering Australia exemplifies everything excellent in Australian engineering.

Rosebank provides full system-level engineering-based MRO (maintenance, repair and overhaul) services, as well as manufacturing high-precision components, for the defence and aerospace industry. Servicing such customers as the Australian Department of Defence, the Royal Malaysian Air Force, Boeing Defence Australia, UTC Aerospace Systems and BAE Systems, the company operates under the most demanding quality assurance programs, with regular ongoing audits.

With expertise in flight control, environmental control, undercarriage and fuel systems, Rosebank achieves high levels of component reliability and affordability through innovative engineering applications and high levels of expertise encompassing aeronautics, mechanics, hydraulics, pneumatics, materials and processing. Machining capabilities include milling, turning, boring, gun-drilling, grinding, honing and shot and flap peening, performed to the highest quality standards on well maintained, modern machines operated by experienced machinists.

Okuma Australia is assisting Rosebank in maintaining its competitive edge with up-to-the minute technology and after-sales service. The latest plant to be commissioned is the Okuma Millac 800VH, a highly sophisticated modern five-axis multi-plane machining centre, combining high speed with high rigidity, secured by a box-type bed and rectangular wide sliding surface.

Large ball screws and rigid supports with pre-tension provide stability and accuracy, while multi-face machining capability allows for the machining of highly complex workpieces in a single set-up. Reducing the set-up time is a rotary two-pallet automatic pallet changer system as standard.

The Millac 800VH features a pallet measuring 800mm by 800mm, with X-, Y- and Z- axes each measuring 1020mm. With an A-axis (head) range of -30 to +120 degrees and a C-axis (table) capable of 360 degrees, it is ideal for machining large components (up to 1000mm by 1000mm by 1000mm) to an accuracy of 0.001mm. Boasting a spindle speed of 10,000rpm with a tool magazine equipped to hold up to 80 tools, the Millac 800VH is suitable for all roughing and



finishing operations for complex shapes in both ferrous and non-ferrous components. Additional functions include Okuma's 3D OPS CNC System, an on-board automatic gauging system, a Collision Avoidance System (CAS), a pallet-changer for quick set-ups and a Renishaw probe system,

This latest multi-faceted machine joins a number of other Okuma models on the floor at Rosebank, which features a broad range of machines for turning, gun-drilling, grinding, honing, shot- and flap-peening and electroplating, along with equipment for non-destructive testing. Rosebank Engineering Australia has undoubtedly the technology, infrastructure and expertise, exceptional logistics and technical solutions to stand out as a remarkable Australian engineering company with Swiss precision.

www.rosebank-eng.com.au www.okumaaustralia.com.au

New Edgecam release integrates Adveon tool library

With the release of its latest version, Edgecam has become the first CAD/CAM software to integrate with the Adveon tool library from Sandvik Coromant.

Adveon integration provides customers with a single source of data for multiple CNC systems. The library allows the rapid building of tooling databases and ensures automatic access to 3D CAD models for accurate simulation and visualisation. The engineer's input is reduced, improving both consistency and quality of data.

"Pressure to reduce time from design to production combined with the ever-increasing complexity of tools makes rapid access to accurate and current tool data more critical than ever," says Klas Forsström, president of Sandvik Coromant. "Companies can no longer afford to rely on manual data entry and operators need a single tool library that can manage tools from multiple manufacturers.

Adveon has been designed from the 'ground up' to address these challenges."

By offering a standardised methodology for cutting tool suppliers to deliver digital tool data to customers, Adveon simplifies the speed of CAD/CAM programming. Support for the ISO 13399 cutting tool data standard allows selection of tools from any supplier and

assures the accuracy of the geometrical information. Customers can develop their own libraries, quickly build tool assemblies and see immediate results in 2D and 3D. The tool assemblies created are automatically transferred/exported to Edgecam readily available for programming of parts.

Adveon will be distributed free of charge with Edgecam for 2014. Adveon can also be purchased as a standalone system from G-Zerofive until such time that the software is made readily available from other CAM suppliers.

"Integration of the Adveon tool library into the market-leading Edgecam CAD/CAM system will help customers boost productivity and security, especially in three- to five-axis manufacturing operations," says Andrew Scott, General Manager of G-Zerofive. "Adveon will be included in all new Edgecam licences and will provide a single tool library for multiple applications."

www.gzerofive.com www.sandvik.coromant.com/au