

Demonstrating ultimate
commitment to the
aerospace
customer



LOVITT TECHNOLOGIES AUSTRALIA

Lovitt Technologies Australia is synonymous with precision engineering in the Australian aerospace sector. We are a specialist manufacturer certified to the industry-specific AS9100:2004 standard.

Having established a strong reputation as a local manufacturer, Lovitt Technologies Australia was introduced to international markets through the government's Australian Industry Involvement programme (AII). Now, our standing in the aerospace industry is such that we can negotiate directly with prime contractors and original equipment manufacturers (OEMs) against international competition.

The commitment we have made to aerospace manufacturing is extensive:

- Adherence to quality standard AS9100:2004 provides the ultimate assurance of raw material traceability, design conformance and reliability.
- Capital investment in the latest high-speed machining centres (20,000 rpm x 10 m/min) including 5-axis mills and 7-axis lathes.
- Optimal configuration of machining equipment to suit the light-weight materials typically used in aircraft componentry such as aluminium and titanium.
- Flexibility in the design of production facilities to suit the diverse volume requirements, from prototyping to full-scale production.
- Value-added services to offer our customer more than just precision engineering, but a solution that takes the machined item to the highest level of finished component or sub-assembly. In-house project managers co-ordinate the provision of these services via our network of certified suppliers.

Lovitt Technologies Australia has extensive experience in both commercial and military aircraft projects and is a recognised supplier to the leading aerospace companies in the world.

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Quality
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Company

AEROSPACE
AS 9100:2004



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Based on a previous working relationship with Auspace ACT, Lovitt Technologies Australia was approached to manufacture components and assemblies for the construction of precision optical equipment at Gemini North.

Lovitt Technologies Australia was contracted to work on the Gemini Near-Infrared Integral-Field Spectrograph (NIFS) designed by the Research School of Astronomy and Astrophysics (RSAA), Australian National University. A spectrograph is an instrument used to separate incoming light into its constituent wavelengths for analysis. Specifically, the NIFS is employed to detect black holes in galactic nuclei and study the dynamics of distant galaxies.

The scope of work involved precision machining to extremely fine tolerances and incorporating the components into assemblies. The finished parts included lens holders, frames, towers, baffles, filter wheels and assemblies, and bridge and skirt assemblies.

Machined components, together with parts from other suppliers, were assembled on-site at Lovitt's facilities in Melbourne. In co-operation with Auspace's technical and project management personnel, the sub-assemblies were verified for fit and function.

The relationship with the RSAA continues with significant ongoing involvement in precision machining, finishing and assembly for the WiFeS (Wide Field Spectrograph) project. WiFeS is the new RSAA spectrograph for the 2.3m telescope at Siding Springs Observatory.

Demonstrated capabilities:

- manufacture of components to extremely fine tolerances
- mechanical assembly
- sub-assembly supply

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Case Study

Gemini Observatory

The Gemini Observatory consists of twin 8-meter optical / infrared telescopes: Gemini South, located in the Chilean Andes, and Gemini North, located on the dormant Mauna Kea volcano, Hawaii. Gemini was built and is operated through a partnership of seven countries, including the US, UK, Canada, Chile, Australia, Brazil and Argentina. The Gemini Observatory provides the astronomical communities in these partner countries with access to state-of-the-art facilities allocated in proportion to each country's financial contribution to the project.

PICTURE: Gemini Observatory



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