



LOVITT TECHNOLOGIES AUSTRALIA

Lovitt Technologies Australia consulted on design-for-manufacturability issues relating to the rugged enclosure housing the communications components. The machining and finishing of the component was undertaken by Lovitt Technologies Australia, working in association with appropriately qualified subcontractors.

As a highly regarded manufacturer of enclosures for the defence sector, Lovitt Technologies Australia was approached by its customer early in the project's concept and design phase.

In consultation with the customer's technical and design personnel, a suitable manufacturing technology was agreed to meet stringent design criteria and rigorous operational conditions. Projected production volumes, cost and scheduling constraints also factored into the approach adopted.

Thin walled investment casting technology was selected. Under the direction of Lovitt Technologies Australia, the casting subcontractor designed the casting tool to offer a porous free finish and the inclusion of features which would facilitate the efficient machining of high tolerance features.

Surface treatment requirements involved painting, plating and laser marking. Lovitt Technologies Australia proposed permanent laser marking of operational instructions and product identification as an alternative to labelling being affixed to the enclosure assembly. This approach received Australian Defence Department approval and has subsequently been used on a number of other products.

PLB enclosures were supplied in significant quantities. The PLB remains in active use by Australian and international defence forces. Further international marketing opportunities are being explored.

Demonstrated capabilities

- manufacture of rugged enclosures
- design-for-manufacturability
- sourcing of raw casting
- precision machining of close tolerance features
- plating and painting
- laser marking
- mechanical assembly

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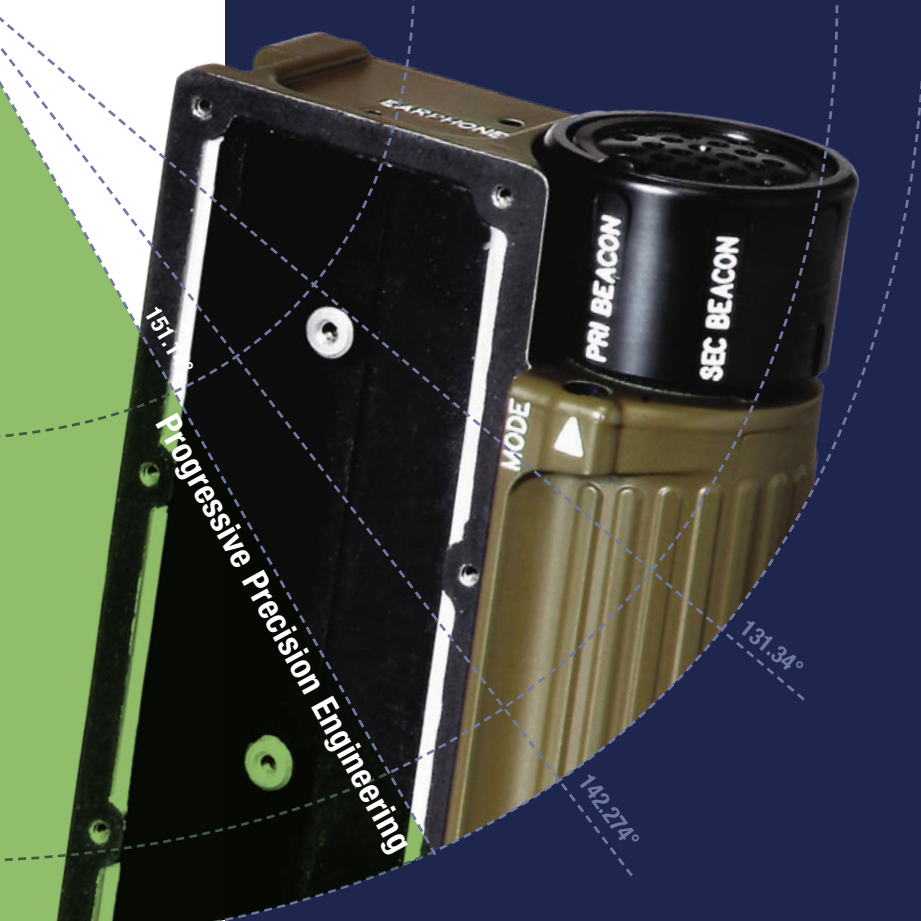
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Case Study

Personal Locator Beacon

The Personal Locator Beacon (PLB) is a portable distress beacon designed for personal use in a maritime, aviation or land environment. A satellite based system provides the distress signal monitoring, alerting and location information to search and rescue (SAR) authorities. The PLB, when fitted with GPS capabilities, provides exceptional positioning accuracy, near instantaneous alerting, signal encoding and global coverage for military personnel in the field.



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