

5-Axis Machining of Intercostals & Preparation of new expanded facilities in Duty Free Zone



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NEWSLETTER

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Intercostals machined for Aero-structures



Intercostals machined on 5-Axis CNC using Aluminum Alloy 7050-T7451

The team has built up in experience gained in the recently concluded project consisting of 50 different Prototypes. Ranging in



Intercostals of Aero-Structures for Commercial Aviation having Complex Geometries were delivered last month. The Parts consist of complimenting pairs mirroring each other.

The parts are complex due to the **thin sections** and difficult to approach intersecting planes having varying geometries along the length. This task was handled well by the team which has acquired extensive experience in 5-axis machining of Aluminum Alloys of Aerospace grades where thin section and compliance to geometrical tolerances of Size, Form, Profiles and Location were demanded.

tures & Landing Gear. These involved complex geometries and stringent qualification requirements. The prototypes were completed successfully and well within the time line requested by the customer.

The team devised intelligent strategies for manufacturing the parts. Fixtures were designed in-house which optimized the cycle times and contained the internal stresses to minimize distortions.

All the submitted prototypes have qualified satisfactorily by the OEM's Quality team.

applications for **Bulk-heads, Wing Struc-**

Briefs:

- AS A CONSEQUENCE OF THE MEETINGS HELD DURING THE PARIS AIRSHOW AT LEBOURGNET, AGREEMENTS HAVE BEEN SIGNED WITH SOME LEADING AVIATION CUSTOMERS. VISITS OF TEAMS TO THE R&D FACILITIES ARE PLANNED IN COMING WEEKS.
- R&D TO ASSIST IN VISION FOR AEROSPACE REGIONAL CLUSTER.
- ISO 9001:2008 AUDIT CONCLUDED BY TUV AUSTRIA.
- EXCELLENT CONDITION OF THE CMM USED FOR QMS BY R&D WAS ACKNOWLEDGED BY THE CARL ZIESS TEAM DURING CALIBRATION/RECERTIFICATION.
- FINANCING AGREEMENT FOR EXPANDED FACILITY AT THE DUTY FREE ZONE HAS BEEN CONCLUDED.

Construction work on our new facilities progressing well



Approximately 10,400 Sq Ft of covered area is being built to accommodate the 1st phase of new construction at

the Duty Free Zone. This includes additional space to accommodate a **larger Design team, additional Machining Space** as well as larger accommodation for **Assembly and Testing facilities.**

The contract for supply of Pre-Engineered Steel Build-

ing has been awarded to Mammut Building Systems which has one of the best records in the region. The Civil works have just about been completed with work in progress for completion of the re-inforced flooring of the workshop areas. Erection of the Pre-engineered building will commence in a month.