



Reliability as a must

Defense Applications

In 1995 TECNICHAPA started up the aerospace division. This unit develops components and mechanic welded precision assemblies from defense metallic materials. The main applications are for structures, equipment's and aircraft engines for the Defense market.

The consolidated growth path is the result of being ahead of its customers' satisfaction. TECNICHAPA is now a reference in terms of competitiveness, quality and service. Following this successful background, in 2006 TECNICHAPA created Wallair Engine Components (WEC), a specialised company acting in the Aerospace and Defense market. The main goal is to deepen its long-term partnerships among the main Defense integrators.

Programs

- **Engines:** EJ200 / TP 400.
- **Aircrafts:** Eurofighter, A-400M, Rafale.
- **Missiles:** IRIS-T / ESSM

Materials

- Stainless steel sheet-metal: AISI 304L, 321, 17-4 PH, etc.
- Nickel-base stainless alloys: Inconel, Nimonic, Hastelloy, Rene 41
- Titanium alloys: T40, Ti-Al, Ti-Cu, etc...

Qualifications

- Quality Management System certified upon EN 9100
- Special process - NADCAP approval:
 - Laser cutting (2007)
 - NDT inspection by LPF
 - Manual TIG welding
- Client approvals: ITP (Rolls-Royce), SNECMA, AIRCELLE, HONEYWELL, SENER, etc

Process

New manufacturing site with 3.000 sq.m, extendable to 6.000 sq.m:

- 2D Laser cutting and CNC punching
- 3D Laser cutting
- Auxiliary equipment: automated riveting, milling, deburring, polishing, etc.
- Forming: CNC press-braking, cold press forming and rolling
- Manual TIG welding, linear and circular automated TIG welding
- Assembled systems
- Inspection room: 3D measuring machine, other inspection equipment