



Giving wings to your projects

Taking up the Challenge

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

The consolidated growth path is the result of being ahead of its customer's 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 deepening its partnerships among the main engine makers and aerospace integrators.

Programs

- Engine programs: CFM-56 / GE-90 / Trent 500-900-1000 / GP 7200 / MTR 390
- Aircraft program: Boeing B-737 / Airbus A-318&320 / Airbus A-380

Materials

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

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...
- Delegation for self FAIR approval (ITP and SNECMA)

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...
- Forming: CNC press-braking, cold press forming, rolling
- Manual TIG welding, linear and circular automated TIG welding
- Assembled systems
- Inspection room: 3D measuring machine, other inspection equipment