

Engine Maintenance

Profile

The RUAG Aerospace Engine Services Center in Stans is one of the seven facilities of RUAG Aerospace and was formerly a branch of the Swiss Air Force Logistics Command (SAFLC).

With an unbroken experience stretching back to the second world war, the Center has

accumulated a solid foundation of know-how in the field of aero engines and other aircraft powersupply systems.

We were involved in technical support for the first generation of jet engines (Goblin, Ghost and Avon) and worked with such famous names as Daimler-Benz, Hispano-Suiza and Pratt & Whitney.

Today, the Engine Services Center provides factory maintenance services for all jet and turboshaft engines and related equipment of the Swiss Air Force (SAF) and other countries.

Our maintenance work (depot and intermediate level) includes examining, inspecting, modifying, repairing and testing:

- jet, helicopter and turboprop engines
- turbo equipment
- engine accessories

The Center is responsible for the maintenance of the following engines for the Swiss Air Force:



Engine	Aircraft Type
Turbomeca Artouste III B	Alouette 3
General Electric F404-GE-402	F/A-18
General Electric J85-GE-21	Tiger F-5
Turbomeca Makila 1A1	Super Puma
Rolls Royce Adour 861A	Hawk

Engineering

Our design team provides technical support and advice during the construction of test facilities for jet, turboprop and turboshaft engines.

Our highly professional Engineering carries out the following maintenance tasks:

- Examination and evaluation of serious defects
- Development of system improvements
- Modification management
- Trouble-shooting for jet engines and related Equipment
- Development of repair procedures



Maintenance

Since 1997, General Electric Company has licensed RUAG Aerospace for overhaul and repair activities to all J85 Engines and its components and accessories for certain third countries.

Engine workshop

The assembly hall, built in 1988, is fully equipped for aircraft engine maintenance. With half a century's experience in maintaining military engines, this is a task for which we are well qualified. We carry out the following types of work:

- Maintenance (all stages)
- Repairs/Overhaul
- Implementation of modifications
- Non-destructive testing
- Computer-aided configuration management

Engine and turbo accessories workshop

Our accessory workshop, specialized in the maintenance and testing of components and complex systems for the above-mentioned engines. The facilities include more than 100 different devices for testing hydraulic, fuel, lubricating and air equipments, as well as air turbine starters (ATS) and auxiliary power units (APU).



Engine testing

We have state-of-the-art facilities to test engines for our military and civilian customers. In addition, we can test auxiliary

power units (APU) and air turbine starters (ATS) as well as various other types of turbo equipments.

Type of test stand	Type of Engines	Rating	in	Typical Engines	Aircraft Type
Water break	Turboshaft	1'860 (2'500)	KW shp)	Makila 1A1 Artouste IIIB	Super Puma Alouette 3
Thrust stand	Turbojet	10'000 (22'500)	daN lbf)	Adour 861A	Hawk
Thrust stand	Turbojet	10'000 (22'500)	daN lbf)	F404-GE-402 J85-GE-21	F/A-18 C/D F-5 E/F
Water break	Turboprop.	2'100 (2'600)	KW shp)	PT 6A (diff. Types)	diff. Types

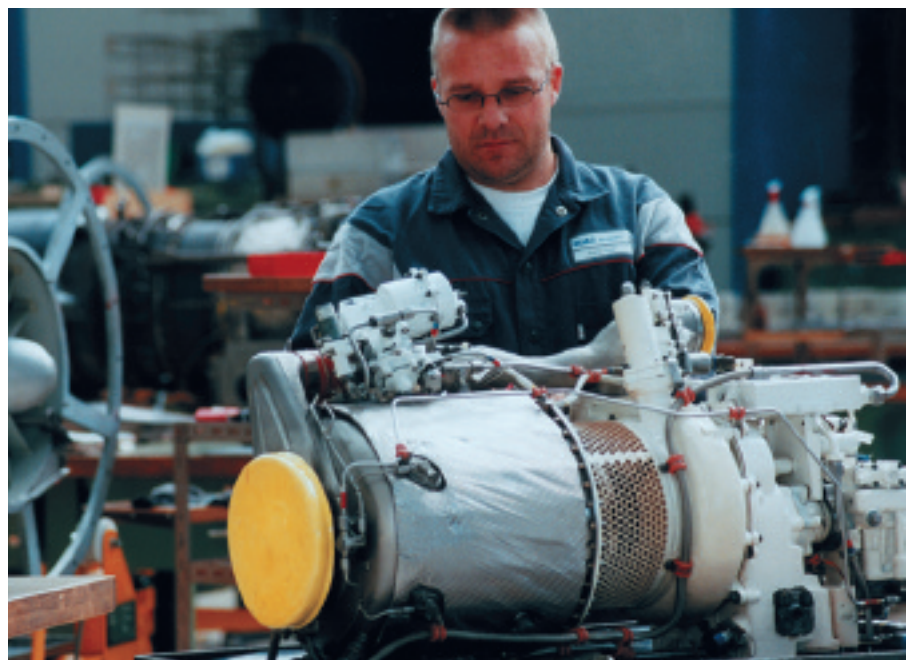
Quality Management

«Swiss Quality»

Our professionally trained and highly qualified personnel is your assurance of top quality work in assembly, manufacturing, repairing and upgrading.

We have the facilities needed to satisfy the most highly sophisticated demands.

RUAG Aerospace is certified according to ISO 9001 (International), SN EN ISO 9001 and EASA. 145.0227, MIL-Q-9858A (American) and AQAP-110 (NATO).



RUAG Aerospace

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