



Technical innovation driver

As a leading aerospace company, Lufthansa Technik combines well-engineered processes with the innovative drive of its highly-specialized staff.



Lufthansa Technik

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Lufthansa Technik

Engine Parts and Accessories Repair - EPAR

Industrial Services



High-tech made by Lufthansa Technik

The world's leading company for maintenance, repair and overhaul of aircraft, their engines and components, offers an extremely broad range of highly qualified technical services, which are attractive to many businesses, including those in other sectors of industry. Lufthansa Technik's EPAR Industrial Services stands for this range of services.

Every individual process within the scope of **EPAR Industrial Services** offers top quality and efficiency. The particular ability of Lufthansa Technik lies in the way it utilizes its available production structure to supply very complex manufacturing and assembly procedures at high-tech level from one source – from surface treatment to machining, joining techniques and heat treatment – and even development of new processes.

This unique expertise – excellent quality in an unrivalled variety of processes – makes repair or assembly of high-quality products by Lufthansa Technik a very attractive partner for your company:

High-tech made by Lufthansa Technik.



	Materials					
	Nickel	Titanium	Iron	Copper	Aluminum	Other
Joining technologies						
Welding						
Inert gas welding						
- TIG welding	•	•	•	•	•	•
- TIG welding mobil	•		•	•	•	•
- Orbital welding	•	•	•	•	•	•
Plasma arc welding	•	•	•	•	•	•
Microplasma welding	•	•	•	•	•	•
Build up welding	•	•	•	•	•	•
Lufthansa Hot-TIG welding	•		•	•	•	•
Laser welding	•		•	•	•	•
Electron beam welding	•	•	•	•	•	•
Brazing						
Furnace brazing (vacuum, inert gas)	•	•	•	•	•	•
Wide gap brazing	•	•	•	•	•	•
Preform brazing	•		•	•	•	•
Riveting	•	•	•	•	•	•
Surface technologies						
Stripping						
Chemical stripping	•	•	•	•	•	•
High pressure waterjet stripping	•	•	•	•	•	•
Mechanical stripping	•	•	•	•	•	•
Cleaning processes						
DFIC	•					
Chemical cleaning	•	•	•	•	•	•
Thermal cleaning	•	•	•	•	•	•
Abrasive cleaning	•	•	•	•	•	•
Electro-plating						
Platinum coating	•		•		•	
Thermal spraying*						
Air plasma spray	•	•	•	•	•	•
Low-Vacuum plasma spraying (LVPS)	•	•	•	•	•	•
Flame spraying (powder)	•		•	•	•	•
HVOF spraying	•	•	•	•	•	•
Wire spraying (flame/arc)	•		•	•	•	•
Abrasive blasting (roughness adjustment)	•	•	•	•	•	•
CVD-processes	•	•	•	•	•	•
Local coatings (touch-up)	•	•	•	•	•	•
Peening						
Shot peening	•	•	•	•	•	•
Ceramic bead peening	•	•	•	•	•	•
Flapper peening mobile	•	•	•	•	•	•

* more than 250 material specifications

	Materials					
	Nickel	Titanium	Iron	Copper	Aluminum	Other
Heat treatment						
Inert gas	•	•	•	•	•	•
Vacuum	•	•	•	•	•	•
Hydrogen	•		•			•
mobile/local heat treatment	•	•	•	•	•	•
Testing / QA						
X-ray testing	•	•	•	•	•	•
Ultrasonic inspection	•	•	•	•	•	•
FPI inspection	•	•	•	•	•	•
MPI inspection			•			•
Eddy current inspection	•	•	•	•	•	•
3D measurements	•	•	•	•	•	•
Pressure testing	•	•	•	•	•	•
Airflow testing	•	•	•	•	•	•
Bearings inspection			•			•
Machining						
Conventional milling	•	•	•	•	•	•
CNC milling	•	•	•	•	•	•
Laser drilling	•	•	•	•	•	•
Electro discharge machining	•	•	•	•	•	•
Vibro finishing	•	•	•	•	•	•
ARP robot	•	•	•	•	•	•
Analysis & Consulting						
Laboratory processing						
Quality controls	•	•	•	•	•	•
Metallography/SEM+EDX	•	•	•	•	•	•
Ceramography	•	•	•	•	•	•
Material control	•	•	•	•	•	•
Damage analysis	•	•	•	•	•	•
Conceptual studies						
Process development	•	•	•	•	•	•
Feasibility studies	•	•	•	•	•	•
Parameter determination	•	•	•	•	•	•



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