



Total Engine Support

Total Engine Support (TES®) is Lufthansa Technik's top-of-the-line product for engine maintenance, repair and overhaul services. Customers selecting this product can choose from the entire support spectrum the leading MRO provider offers – from engine selection consulting to spare engine coverage, if so desired.

Performance without limits

With Total Engine Support (TES®) the entire world of Lufthansa Technik's engine services becomes available. With its clear modular structure, TES® is topping off and including the range of services offered through Engine Care Services and Selected Engine Services, in effect offering performance without limits. Starting with engine selection consulting – a highly valuable asset in light of Lufthansa Technik's extraordinary operational experience – responsibility for the entire life of a customer engine fleet can be delegated to Lufthansa Technik – the best hands possible.

Smart know-how

Lufthansa Technik's Engine Maintenance Management Services supports the customer by providing the expertise to evaluate airworthiness requirements and service bulletins. Thus a customer is able to have precisely those actions performed which are necessary for his individual requirements. In addition, engineering consulting and customized guidelines for workscooping can be provided.

Troublefree operations

Significantly broadening the scope of engine services, each element of a Total Engine Support contract is selected to ensure the utmost reliability of operations. An unplanned engine removal for example will not cause a substantial interruption of a customer's operations, as Spare Engine Coverage can be provided for most common engine models – transport by Lufthansa Technik Logistik and the engine exchange performed by an Airline Support Team (AST®) included. An established failure analysis and management process drives the improvement cycle, complementing the comprehensive repair capabilities. And by the constant use of Cyclean Engine Wash and advanced repair services for engine performance influencing parts, the CO₂ emissions can be reduced substantially.

The highly profitable claim and warranty management for engines and APUs is based on Lufthansa Technik's intimate knowledge of the customer's engines coupled with 25 years of experience in handling warranty cases for its customers. An attractive feature to guarantee seamless support is the delegation of a Lufthansa Technik representative to the customer's site.

Billing at customer's choice

When it comes to selecting the best form of technical support, Lufthansa Technik as a truly independent shop with decades of airline experience is able to make an impartial choice. With Total Engine Support, a customer is thus able to select every engineering and consulting service from the most advanced portfolio in the industry. Flexibility does not stop here: Operating with a flat rate contract or on a time & materials basis, once again the customer is free to decide.



Customer advantages

- Premium total care package
- Maximum flexibility
- Smooth operations guaranteed
- Airline background
- One-stop shop

Services

- Engine repair and overhaul (long term)
- Engineering – Engine Maintenance Management Services
- Warranty and insurance management
- Failure analysis management
- Spare Engine Coverage
- Logistics
- On-site representative
- Selected Engine Services
- Engine Care Services

Contact

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Engine Services products

Customer	Lufthansa Technik
In-house maintenance ratio	Engine Services
	<p>Total Engine Support</p> <ul style="list-style-type: none"> • Engine repair and overhaul (long term) • Engineering – Engine Maintenance Management Services • Warranty and insurance management • Failure analysis and management • Spare Engine Coverage • Logistics – warehousing and transportation • On-site representative
	<p>Selected Engine Services</p> <ul style="list-style-type: none"> • Engine repair and overhaul (single events) • Advanced workscoping • Calculation of optimized life-limited parts usage • Engine-related components • Use of alternate material • Engine lease support – consulting and provisioning • Large in-house maintenance capabilities – vast range of repairs
	<p>Engine Care Services</p> <ul style="list-style-type: none"> • Engine Condition Monitoring • Engine Operation Center – 24/7 troubleshooting • Airline Support Team – on-wing/on-site services • Cycleclean Engine Wash • Consulting services – engine selection consulting, shop visit planning, lease return checks, engine phase-out consulting • Tooling – consulting and provisioning

Capabilities

Engine type	APU type
<p>CFM International</p> <ul style="list-style-type: none"> • CFM56-2C • CFM56-3 • CFM56-5A • CFM56-5B • CFM56-5C • CFM56-7B 	<p>Hamilton (HSPS)</p> <ul style="list-style-type: none"> • APS 2000 • APS 3200 <p>Honeywell</p> <ul style="list-style-type: none"> • GTCP 36-300 • GTCP 85-129H • GTCP 85-98 • GTCP 131-9(A) • GTCP 131-9(B) • GTCP 331-200 • GTCP 331-250 • GTCP 331-350 • GTCP 331-500 • GTCP 331-600 • GTCP 660-4 • TSCP 700-4E
<p>General Electric</p> <ul style="list-style-type: none"> • CF34 • CF6-50 • CF6-80C2 • CJ610/CF700 	
<p>IAE</p> <ul style="list-style-type: none"> • V2500-A5 • V2500-D5 	
<p>Rolls-Royce</p> <ul style="list-style-type: none"> • RB211-535 • Trent 500 • Trent 700 • Trent 900 	<p>PWC</p> <ul style="list-style-type: none"> • PW901A
<p>Pratt & Whitney</p> <ul style="list-style-type: none"> • PW100 • PW150 • JT8D-7 to -17A • JT9D • JT15D • PW4000-94 	