



# Willis Services



# THE WILLIS PLATFORM<sup>®</sup>

A full suite of product offerings across the aviation asset life cycle



WILLIS LEASE FINANCE CORPORATION

Power to Spare – Worldwide<sup>®</sup>



- Engine & Aircraft Leasing
- Engine & Aircraft Trading
- Regional & Specialty Assets
- Engine & Aircraft Lease & Loan Financing
- ConstantAccess<sup>®</sup> / ConstantThrust<sup>®</sup>
- End of Life Aircraft Programs





- Business area focused on identifying innovative markets and technologies that leverage our core capabilities
  - Decarbonized Aviation
  - Sustainable Aviation Fuel (SAF), Electrification, Hydrogen



# WILLIS SUPPORT THROUGH THE LIFE CYCLE OF YOUR ASSETS

The “One-stop shop” turnkey strategy



	 <p><b>Pre-purchase or Delivery</b></p>	 <p><b>Operational Management</b></p>	 <p><b>Sale or Re-delivery / End of Life Solutions</b></p>
 Willis Asset Management Limited	<ul style="list-style-type: none"> <li>Market / Asset Assessments</li> <li>Asset Valuations</li> <li>Pre-purchase Inspections</li> <li>Physical Inspections</li> <li>Records Inspections</li> </ul>	<ul style="list-style-type: none"> <li>Fleet Management</li> <li>Shop Visit Management</li> <li>Transition Management</li> <li>Mid-lease Surveys</li> <li>Aircraft CAMO</li> <li>A/C Movements / Ferry Permits</li> </ul>	<ul style="list-style-type: none"> <li>Physical Inspections</li> <li>Records Inspections</li> <li>Transition Management</li> </ul>
 Willis Engine Repair Center*	<ul style="list-style-type: none"> <li>Borescope Inspections</li> <li>QEC Build / Swap</li> <li>Storage</li> <li>Preservation</li> </ul>	<ul style="list-style-type: none"> <li>Borescope Inspections</li> <li>Boreblend, Top Case</li> <li>Field Service</li> <li>Module Repairs / Swaps</li> <li>SPXX Engine Repairs</li> </ul>	<ul style="list-style-type: none"> <li>Borescope Inspections</li> <li>MPD Checks, End-of-lease Inspections</li> <li>Preservation &amp; Storage</li> <li>Boreblend, Top Case</li> <li>Engine Teardown</li> <li>Module Repairs / Swaps</li> <li>SPXX Engine Repairs</li> </ul>
 Willis Lease	<ul style="list-style-type: none"> <li>Engine Exchange</li> <li>Engine Stands</li> </ul>	<ul style="list-style-type: none"> <li>ConstantAccess® Program</li> <li>Engine, Lease, Sale, or Exchange</li> <li>Engine Stands</li> </ul>	<ul style="list-style-type: none"> <li>Aircraft Purchase</li> <li>Engine Purchase</li> <li>ConstantThrust® Program</li> </ul>
 Willis Aviation Services Limited	<ul style="list-style-type: none"> <li>Aircraft Parking &amp; Storage</li> </ul>	<ul style="list-style-type: none"> <li>Aircraft Line Maintenance</li> <li>Aircraft Parking &amp; Storage</li> <li>Aircraft Base Maintenance</li> <li>Aircraft Painting</li> <li>Aircraft Configuration Changes</li> </ul>	<ul style="list-style-type: none"> <li>Aircraft Parking &amp; Storage</li> <li>Aircraft Disassembly</li> <li>Serviceable Engine Removals</li> </ul>
 Willis Aeronautical Services, Inc.		<ul style="list-style-type: none"> <li>Material Provision</li> </ul>	<ul style="list-style-type: none"> <li>Engine Purchase</li> <li>Engine Teardown</li> <li>Material Consignment</li> </ul>



**Willis**  
Asset Management  
Limited



Willis Asset Management is a leading worldwide provider of aviation asset management solutions. We have years of experience advising our customers on all technical, commercial, and financial aspects of aircraft and engine life cycle operation and management. We are also an EASA, UK CAA and approved CAMO and our globally positioned team is qualified and experienced to look after and deliver your entire aircraft transition and maintenance requirements. We remain at the forefront of engine management solutions with some 550 engines under long-term management providing decades of unrivalled knowledge and experience with which to support the needs of our customers.

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Willis Asset Management Limited is a subsidiary  
of Willis Lease Finance Corporation



# 550+

## MANAGED ENGINE PORTFOLIO

**CFM56-3**  
**CFM56-5**  
**CFM56-7**  
**LEAP**  
**V2500**  
**PW100/150A**  
**PW2000**  
**PW4000**  
**PW1000G Family**  
**RB211**  
**Trent Family**  
**GP7200**  
**CF6-80**  
**CF34**  
**GE90**  
**GE9x**  
**APUs**

With a managed engine portfolio of 550+ engines and 1600+ shop visits managed, we provide ongoing independent expertise on all aspects of on-wing and off-wing engine maintenance and management, including phase-out fleet optimization and lease return planning. The unique access to our owned and managed fleet data affords insights to actual operations for the effective management of technical and financial risk.

# 250+

## AIRCRAFT TRANSITIONS

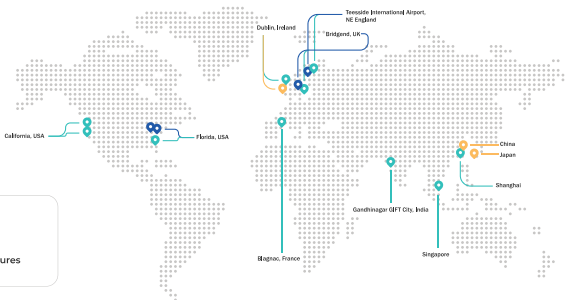
With our large pool of experienced and highly qualified experts, combined with our knowledge of global authority requirements, we have successfully executed 250+ full aircraft transition projects. Providing support across the full spectrum of commercial and regional aircraft, we offer customized solutions for all aspects of asset management throughout an aircraft's entire life cycle.

# CAMO

We are a fully approved CAMO organization, offering comprehensive airworthiness management solutions that protect the interests of our global customer base. Given the complexities of the regulatory environment, our team of customer-focused specialists ensure all aircraft remain in full compliance with jurisdictional requirements.



A220 | A320ceo | A320neo | A330 | A350 | A380  
B737 Classic | B737NG | B737-7/8/9 | B767 | B777 | B787



# GLOBAL

Our consultancy is underpinned by unrivaled experience and an international presence, allowing us to deliver exceptional service to our customers. With globally positioned dedicated teams available to deploy at a moment's notice, we are ready to provide the support and advice you need, when and where you need it.

## CONTACT OUR SALES TEAM

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# ENGINE CONSULTANCY & TECHNICAL SERVICES

		APPLICABLE SERVICE BY CUSTOMER TYPE					
		AIRLINE	LESSOR	FINANCIER	MRO	ASSET / PARTS TRADING	OEM
CUSTOM FLEET & PORTFOLIO PROGRAMS	Airline Fleet Support Programs	•					
	Lessor Portfolio Support Programs		•				
	MRO Support Programs				•		
	Fleet ECM/EHM Monitoring Programs	•			•		
	Technical Publication Support Programs	•	•			•	
	Investor Portfolio Monitoring Programs			•			
CONSULTANCY SERVICES	Fleet Planning Optimization	•					
	Exit Strategy Modeling and Optimization	•	•			•	
	Maintenance Cost Forecasting	•	•	•	•		
	Maintenance Reserve Calculations / Reserve Claim Analysis	•	•				
	Power by the Hour Programs Assessment / Negotiation Support	•		•	•		
	Engine Overhaul & Repair Contract Negotiation	•	•		•	•	
	Engine Evaluation & Selection	•	•	•		•	
	Engine Purchase Negotiation Support / Sale / Remarketing Advice	•	•	•		•	
	Lease Contract Negotiation Support	•	•	•		•	
	Engine Valuations (ISTAT Appraiser Certified)	•	•	•		•	•
	Engine Teardown Valuations	•	•	•		•	
	Industry Best Practice Advice	•			•		
	Customized Training Programs	•	•				
	Investor Product Investment Strategy		•	•			
	Market Sector Analysis	•	•	•	•	•	•
Insurance Claims Support	•	•	•	•	•		
Expert Witness	•	•	•	•	•		
TECHNICAL SERVICES	Technical Documentation Audit	•	•	•	•	•	•
	LLP Back to Birth Trace Audit	•	•	•	•	•	•
	Borescope Overview / Borescope Video Analysis	•	•	•		•	•
	General Physical Inspection of an Engine / Engine Stand	•	•	•		•	•
	QEC / Accessory Inventory Check / Avionics Inventory Check	•	•	•		•	•
	Engine Test Cell or On-wing Run Overview / Test Result Analysis	•	•	•		•	•
	Pre-Purchase Inspection	•	•	•		•	•
	Pre / Mid / Post Lease Inspections	•	•	•			
	Sale Support	•	•	•	•	•	•
	Transportation Inspection	•	•	•	•	•	•
	On-wing Troubleshooting Advisory	•	•	•	•		
Engine On-wing Performance Review and Advisory	•	•	•	•	•		
SHOP VISIT SUPPORT SERVICES	Full Shop Visit Management	•	•	•		•	
	Overview Shop Visit Management	•	•	•		•	
	Workscope Compilation / Review	•	•	•		•	
	Dirty Condition / Table Inspection	•	•	•		•	
	Material Sourcing and Documentation Audits	•	•	•		•	
	Test Cell Overview	•	•	•		•	
	Pre / Post Repair BSI Overview	•	•	•		•	
	Post-Shop Visit Documentation Audit	•	•	•		•	
	Warranty Management	•	•	•		•	
	Engine Overhaul / Repair Invoice Review	•	•	•	•	•	
	Maintenance Reserve Claim Analysis	•	•	•		•	
	Scrap Review and Material Value Extraction	•	•	•		•	



## AIRCRAFT CONSULTANCY & TECHNICAL SERVICES

		APPLICABLE SERVICES BY CUSTOMER TYPE					
		AIRLINE	LESSOR	FINANCIER	MRO	ASSET / PARTS TRADING	OEM
CONSULTANCY PROJECT ACTIVITIES	Lease Contract Negotiation Support	•					
	Aircraft Purchase Negotiation Support / Sale / Remarketing Advice	•		•		•	
	Airframe MRO Contract Evaluation and Negotiation Support	•	•				
	Maintenance Reserve Calculations / Reserve Claim Analysis	•	•				
	Aircraft Valuations (ISTAT Appraiser Certified)	•	•	•	•	•	
	Aircraft Import / Export Support	•	•			•	
	Insurance Claims Support	•	•	•	•	•	
	Expert Witness	•	•	•	•	•	
TECHNICAL PROJECT ACTIVITIES	Transition Support (Delivery / Redelivery)	•	•			•	
	Pre-Purchase Inspections / Due Diligence	•	•			•	
	Mid-Lease Inspections		•				
	Technical Documentation Audits	•	•	•		•	
	Aircraft Physical Inspections	•	•	•		•	
	Cargo Conversion Management	•	•	•		•	
	Maintenance Check Management / Oversight	•	•	•		•	
	Maintenance Check Invoice Review / Cost-Sharing Analysis	•	•	•		•	



## AIRWORTHINESS MANAGEMENT (CAMO)

		APPLICABLE SERVICES BY CUSTOMER TYPE					
		AIRLINE	LESSOR	FINANCIER	MRO	ASSET / PARTS TRADING	OEM
CONTINUING AIRWORTHINESS SERVICES	Full Continuing Airworthiness Management (for Lessors)		•			•	
	Shadow CAMO (for Lessors)		•			•	
	Airworthiness Monitoring (non-EASA)		•			•	
	Continuing Airworthiness Management Support (for Airlines)	•					
	Airworthiness Directive & Service Bulletin Compliance Management	•	•			•	
	Aircraft Damage and Repair Management	•	•			•	
	Hard Time, On-Condition Component Tracking and Management	•	•			•	
	Maintenance Program Development, Amendment and Control	•	•			•	
	Long & Short-Term Maintenance Planning	•	•				
	Creation of Reliability Programs and Reporting	•					
	Work Packs and Task Cards Creation and Administration	•	•			•	
	Aircraft Technical Records Management & Storage	•	•			•	
	ARC / C of A Services	•	•			•	
	Engine Health Monitoring (EHM / ECM), Flight Data Monitoring, Aircraft Condition Monitoring	•					
	Part 21 Services	•	•			•	
	Ferry & Demo Flight Services	•	•			•	
	FAA DAR Services	•	•			•	
EASA AIR OPS / FAR 121 Compliance Verification & Reporting	•	•			•		

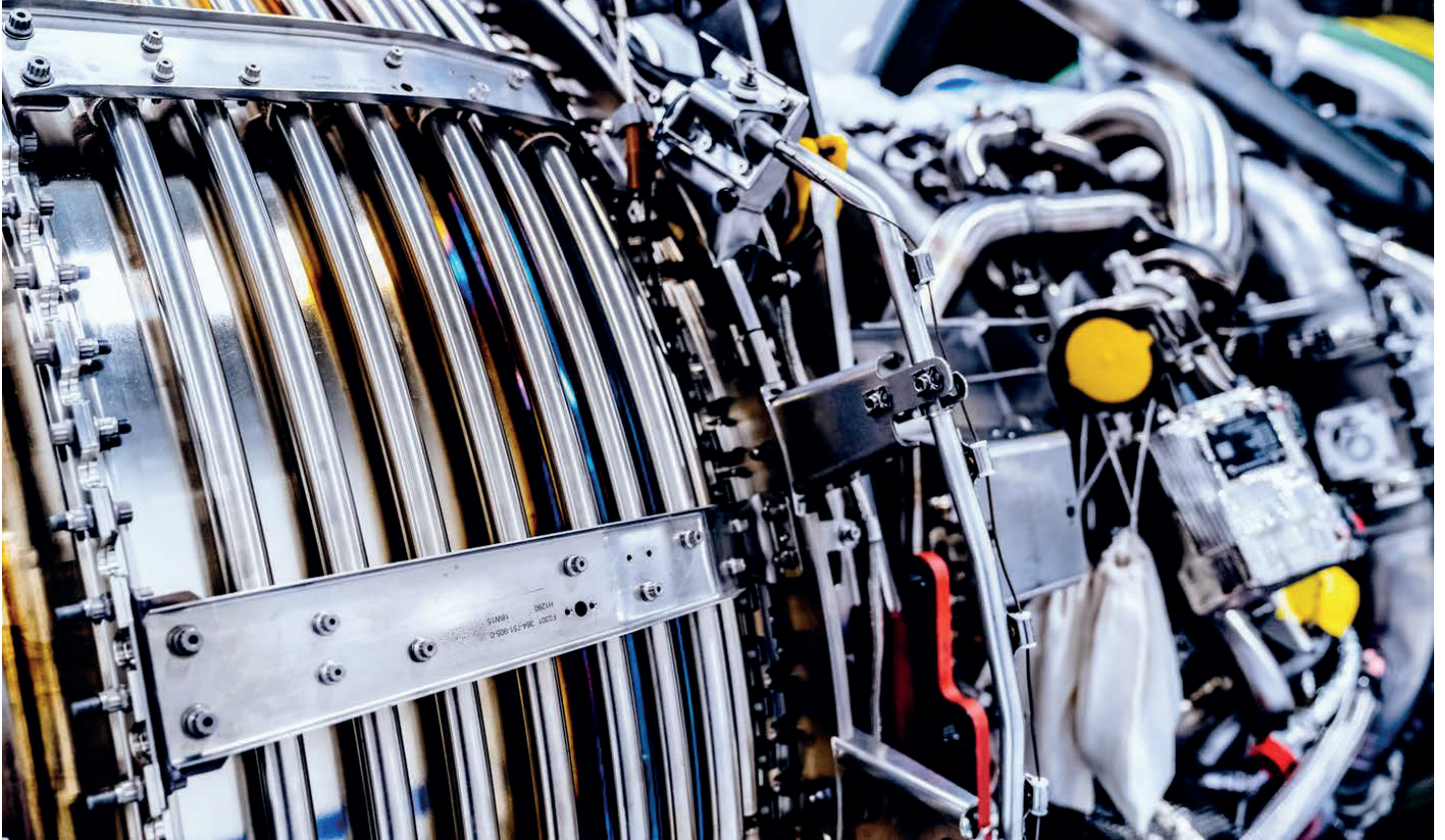


## QUALITY & REGULATORY SERVICES

		APPLICABLE SERVICES BY CUSTOMER TYPE					
		AIRLINE	LESSOR	FINANCIER	MRO	ASSET / PARTS TRADING	OEM
QUALITY & REGULATORY SERVICES	Lease Contract Negotiation Support	•					
	Aircraft Purchase Negotiation Support / Sale / Remarketing Advice	•				•	
	Airframe MRO Contract Evaluation and Negotiation Support	•	•				
	Maintenance Reserve Calculations / Reserve Claim Analysis	•	•				
	Aircraft Valuations (ISTAT Appraiser Certified)	•	•	•	•	•	



**Willis**  
Aeronautical  
Services, Inc.



Willis Aeronautical Services is a leading supplier of surplus engine material to the global aviation and aerospace industries. With over 75 years of deep sector experience, the Willis Aero team delivers surplus parts for nearly every modern engine type to airlines and repair centers around the globe.

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of Willis Lease Finance Corporation





Our aeronautical services are the fastest way to locate aircraft parts and spares for commercial aircraft. Providing you with the right part, in the right place, at the right time is crucial to keeping your fleets in revenue service while maximizing uptime. We have accumulated inventory in nearly all major engine types and have amassed one of the industry's largest stocks of material.

We offer parts locator services and maintain a constantly changing inventory. At Willis, we have compiled a large engine parts inventory database from leading manufacturers and suppliers worldwide, enabling you to quickly source the parts they need.



## Material Solutions and Services for Engines and Components

Our portfolio of transport category aircraft engines includes CF34-10E, CFM56-5B/7B, GE90-115, LEAP-1A/B, V2500-A5, and PW4168. The majority of these assets are in various stages of disassembly and part sales processing.

### Our Capabilities Include:

- **Sales and Distribution of Used Serviceable Material**  
Over 57,000 stock line items including New, Overhauled, Serviceable and As Removed material.
- **Consignment Services**  
Strategic material disposal, engines or inventories may be consigned to WASI for surplus marketing or placement at engine repair facilities for maximum consumption.
- **In-house Logistics Management**  
Efficient transportation support, seamless logistics management to streamline global asset movements.
- **Warehousing and Storage**  
Fully operational and secure 50,000 sq. ft. warehouse located in Pompano Beach, Florida.



- **Procurement & Repairs**  
Established network of over 150 purchasing and repair vendors both OEM and NON-OEM. QA audited and in compliance with standards and regulations.
- **Supporting over 150 customers worldwide.**

### Quality Management



ISO 9001 Certification



Willis Aeronautical Services, Inc.



**Willis**  
Aviation Services  
Limited



Willis Aviation Services Limited offers expansive aircraft disassembly, storage, and maintenance at Teesside International Airport in the UK. Our capabilities include aircraft disassembly, short- and long-term aircraft storage and preservation, line and base maintenance, return to service, and ground and cargo handling services. We provide a full nose-to-tail service tailored to meet the end-of-life planning and aircraft management needs of our operator, lessor and third-party owner-customers.

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Willis Aviation Services Limited is a subsidiary  
of Willis Lease Finance Corporation



# OVERVIEW



Our facility provides a secure and convenient location for maintenance, storage, and disassembly services. The facility features a 45,000 square foot hangar that can accommodate up to two narrowbody aircraft (up B757 wingspan), ample outdoor storage and a runway capable of accepting A380s.

Willis Aviation Services Limited holds UK CAA, 2-Reg, Cayman and EASA Part-145 A & C1 Ratings for the following aircraft types.

NARROWBODY AIRCRAFT	REGIONAL AIRCRAFT
Boeing 737-600/700/800/900 (CFM56) Airbus A319/A320/A321 (IAE V2500) Airbus A318/A319/A320/A321 (CFM56)	Embraer EMB-135/145 (RR Corp AE3007A) ATR 42-400/500/72-212A (PWC PW120)

Willis Aviation Services Limited's capability status for performing 'scheduled' aircraft maintenance checks:

Maintenance Type	Maintenance Level	UK CAA & Cayman EASA Approval Status	Approval Status
Line Maintenance	Post-flight, maintenance pre-flight, service check, and overnight checks	Approved	Approved
Base Maintenance Phase 1	A-Checks on all aircraft types + C1 tasks on Regional aircraft types only	Approved	Approved
Base Maintenance Phase 2	C-Checks on all aircraft types excluding heavy maintenance visits described below	Approved	Approved
'Heavy' Base Maintenance	Referred to as D-Checks or heavy maintenance visits typically occurring every 10 - 12 years depending on aircraft type and utilization	Willis Aviation Services has no plans at this stage to perform heavy base maintenance activities	



## Base Maintenance Services

UK CAA Approval Reference UK.145.01884 | EASA Approval Reference EASA.145.0990

### Engines

- ✓ 2 bay hangar refurbished Q1 2022
- ✓ Redelivery Centre for Lease Transitions
- ✓ 6Y Checks
- ✓ Entry into Services and End of Lease Checks
- ✓ A-Checks
- ✓ Hospital and AOG vsits
- ✓ Customs Warehouse and IPR Regimes. Freeport Status due 2024
- ✓ Materials Sourcing, Logistics & Shipping
- ✓ Component Repair Management



## Part 145 Line Maintenance Services

UK CAA, EASA, 2-Reg and Cayman approved maintenance facility

### Aircraft

- ✓ UK CAA, EASA, 2-Reg and Cayman Approval
- ✓ Line Maintenance Support at Teesside International Airport
- ✓ Flight Ready Parking, Long-term Storage Programs and RTS
- ✓ CAMO Services available through the Willis Platform™

### Engines

- ✓ MPA Tasks
- ✓ Borescope Inspections
- ✓ Certified Engine Swaps



## Certified Engine Tasks

Engine tasks available through Willis Aviation Services Limited and the Willis Platform™

### Engines

- ✓ End of Lease / C-Check Work Packages
- ✓ Certified Engine Removals
- ✓ MPA Runs
- ✓ Borescope Inspections
- ✓ Engine Preservation
- ✓ Tufcoat™ Shrink Wrapping
- ✓ Boreblending
- ✓ HPC Top Case Repairs
- ✓ Service Bulletin Embodiment
- ✓ Logistics & Shipping



## Aircraft Disassembly and Disposal

Aircraft end of life solutions

- ✓ Full Environmental Compliance for Waste and Fluid Disposal
- ✓ Capability to Disassemble all Widebody, Narrowbody and Regional Aircraft
- ✓ Flexible Disassembly from Fully Managed to “Bag and Tag”
- ✓ Remote Disassembly with Mobile Team Providing Worldwide Coverage
- ✓ Specialized Airframe Cutting for Training and Simulation Projects
- ✓ Full Shipping Services including Hazmat
- ✓ On-site Component Storage Available with Customs Warehouse and IPR Available
- ✓ Bespoke Carpentry Shop Providing ISPM Standard Crating
- ✓ AFRA Members Following Their Best Management Practices (BMP)
- ✓ Specialized Inventory Control Software



**Willis**  
Engine Repair  
Center®



Willis Engine Repair Center® is a fully certified EASA/FAA Part 145 facility with dual-release capabilities in Florida (US) and South Wales (UK). WERC® conduct maintenance services on our owned engine portfolio and third party assets. Our brand range of capabilities include lease return transitions, C-Checks, borescope inspections, MPD tasks, field service support, boreblend services, engine disassembly and engine storage and preservation, delivered by our highly skilled maintenance teams.

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Willis Engine Repair Center®,  
part of Willis Lease Finance Corporation



# Maintenance Services

## ENGINES



• WERC® US | • WERC® UK | Dual

### APPLICABLE SERVICES BY ENGINE MODEL

		CFM56-3	CFM56-5	CFM56-7	LEAP	V2500	PW100/-150A	PW2000	PW4000-94	PW4000-100	PW4000-112	PW1100G	PW1400G	PW1500G/1900G	RB211	Trent 500	Trent 700	Trent 800	Trent 900	Trent 1000 / XWB	GP7200	CF6-80	CF34	GE90	GEtx	APU - Various	
BORESCOPE SERVICES	Full Front-to-Back Borescope Inspection																										
	Partial Borescope Inspection																										
	Special Inspections (Service Bulletins etc.)																										
	BSI Plugs Removal and Installation																										
	Boreblending																										

EQUIPMENT STORAGE	Engine Storage																										
	Engine Stand Swaps																										
	Component Storage																										
	Component Receipt / Inventory and Storage																										
	Component Pick / Inventory / Shipment Prep																										
	Engine Shrink Wrapping																										
	Engine Stand Storage																										

MAINTENANCE	Engine C-Checks																									
	Engine Lease Return Maintenance Packages																									
	HPC Top Case Blade Replacement																									
	Engine Fuel / Oil Systems Preservation (Off-wing)																									
	QEC Removal / Installation / Exchange																									
	Thrust Rating Changes																									

OTHER SERVICES	Engine Teardown																									
	Logistics and Shipping																									
	Equipment Offloading & Receipt Inspection																									
	Equipment Prep for Shipment and Loading																									
	QEC Inventory Checks																									
	Scrap Material Processing																									
	Other Miscellaneous Part 145 Services																									

# JET CENTRE by Willis



Jet Centre by Willis at Teesside International Airport in the UK delivers a full range of airport FBO and ground handling services. Our team of highly trained professional, friendly staff provides ground handling services for business, military, commercial, general aviation and cargo flights. In addition, the FBO offers a comfortable area for crew and passengers to relax with enhanced services including hangar facilities, external aircraft washes, complimentary refreshments and snacks, preferred rates on select hotels, and transportation and other related services. Crew also have access to a pilot briefing room.

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Jet Centre by Willis,  
part of Willis Lease Finance Corporation





Offering a broad range of aircraft and engine services to our customers worldwide.

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