

Engine MRO portfolio



The engine experts

At MTU Maintenance, we understand that operators increasingly require services tailored to their specific needs in order to control and optimize cost. Additionally, we know that residual value is key to lessors and asset managers.

We are the global market leader in customized service solutions for aero engines and specialized in meeting these needs. As engine experts, we offer a wide range of individually-tailored solutions encompassing innovative MRO services, integrated leasing and asset management.

It is our people who make the difference: We are passionate about engines and dedicated to supporting our customers. We marry world-class engineering with intelligent creativity and never give up unless an optimal solution has been found.



This is demonstrated by our track record of great customer relationships. MTU Maintenance and its 4,500-strong workforce currently perform 1,000 shop visits a year for more than 200 airline customers. We have over 30 engines in our portfolio and locations in the Americas, Europe and Asia.

More performance for you

For operators of newer engines, it is all about generating more flight hours with customized MRO. We reduce engine removals through fleet management, predictive maintenance, engine trend monitoring and on-site services. Once an engine comes into the shop, we use customized workscoping, alternative repairs and engineering expertise to help lower costs.

More efficiency for you

When it comes to the latter part of the lifecycle, we understand that engines need additional care. Which is why MTU Maintenance also provides smart strategies for mature engines. Our solutions include alternatives to MRO, such as smart repairs and tailored worksopes, material salvation and intelligent teardowns. Furthermore, these services can be combined with alternatives to MRO such as green-time engine leasing.

More value for you

At the end of life, asset owners are looking to get the most value from their engines. There is no single best exit strategy for assets, it can range from generating additional income through green-time lease out to sale, exchange and trade all the way to maximizing the material value of the asset through teardown and material management. We find the best solution.

More flexibility for you

MRO solutions for lessors and asset owners are all about risk mitigation, easy transfers and predictable costs. We provide this in the form of a portable MRO solution across the lifecycle. Transitions between operators are not restricted by operational or geographical constraints, maintenance reserves reside with the lessor and the program is flexible: Entry and exit is possible at any time and also includes intelligent end-of-life strategies.

On top and on demand

In addition to fully integrated solutions, you can also rely on us for:

- AOG support
- Engine and module MRO
- On-site services
- Inspection, diagnostics and investigation
- LRU and parts management
- Predictive maintenance
- Spare engines
- Spare parts, LRU and QEC
- Parts and accessory repair
- Teardown services

Commercial Engines

Widebody jets

CF6-50/-80C2

Start year:	1981
Total shop visits:	>3,700
Total events:	>5,700
Market share (2017):	22%
Ranking:	#1 independent



GE90-110B/-115B

Start year:	2010
Total shop visits:	>50
Total events:	>100
Market share (2017):	4%
Ranking:	#1 independent



GENx¹

Start year:	2015
Total events:	>200



GP7000²

Start year:	2010
Total events:	>100



Narrowbody and regional jets

CF34-3/-8/-10E

Start year:	2003
Total shop visits:	>1,200
Total events:	>1,300
Market share (2017) ³ :	14%
Ranking:	#1 independent



¹ TCF MRO on behalf of General Electric

² LPT MRO on behalf of Engine Alliance

³ Commercial applications only

CFM56-2/-3/-5B/-7

Start year:	1999
Total shop visits:	>1,800
Total events:	>2,300
Market share (2017) ³ :	9%
Ranking:	#1 independent



Airbus A320 Family



Boeing 737 Classic



Boeing 737 NG

PW1100G-JM⁴

Start year:	2016
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Airbus A320neo

PW2000

Start year:	1988
Total shop visits:	>600
Total events:	>1,100
Market share (2017) ³ :	19%
Ranking:	#1 independent



Boeing 757



Boeing C-17

PW6000⁵

Start year:	2007
Total events:	>100
Market share (2017):	100%
Ranking:	#1 worldwide



Airbus A318

V2500-A1/-A5/-D5

Start year:	1989
Total shop visits:	>4,600
Total events:	>6,000
Market share (2017):	34%
Ranking:	#1 worldwide



Airbus A320 Family



Boeing MD-90

⁴ MRO on behalf of Pratt & Whitney

⁵ Exclusive MRO on behalf of Pratt & Whitney

JT15D⁶

Start year:	1992
Total shop visits:	>500
Ranking:	#3



Cessna Citation I/II/V/ Ultra



Beechjet 400

PW300⁶

Start year:	1996
Total shop visits:	>550
Ranking:	#1



Cessna Citation Sovereign



Dassault Falcon 7X



Dornier 328Jet



Learjet 60

PW500⁶

Start year:	2005
Total shop visits:	>450
Ranking:	#1



Cessna Citation Bravo



Cessna Citation Excel



Cessna Citation Ultra Encore



Cessna Citation XLS

PW600⁶

Start year:	2014
Total shop visits:	>100
Ranking:	#1



Cessna Mustang



Eclipse 500



Embraer Phenom 100

PW800⁶

Start year:	2018
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Cessna Citation Columbus



Gulfstream 500



Gulfstream 600

PT6A⁶

Start year:	1992
Total shop visits:	>6,450
Ranking:	#2



Beech King Air



Cessna Caravan



Pilatus



Piper Meridian

PW100⁶/150A^{6*}

Start year:	1992/*2014
Total shop visits:	>3,250
Ranking:	#1



ATR42, ATR72



Fokker 50



Bombardier Q400

PT6B/-C/-T⁶

Start year:	1992
Total shop visits:	>3,050
Ranking:	#1



Agustawestland 119



Agustawestland 139



Airbus Helicopters H175

PW200⁶/PW210^{6*}

Start year:	1992/*2016
Total shop visits:	>1,300
Ranking:	#1



Agustawestland AW169



Bell 427



Airbus Helicopters H135



Sikorsky S-76D

⁶ MRO activities on behalf of Pratt & Whitney Canada Customer Service Centre Europe GmbH, a joint venture between MTU Maintenance Berlin-Brandenburg and Pratt & Whitney Canada for the market area Europe, Middle East and Africa. The ranking displayed is related to the market area. The applications shown are selected examples.

In-house repair capabilities

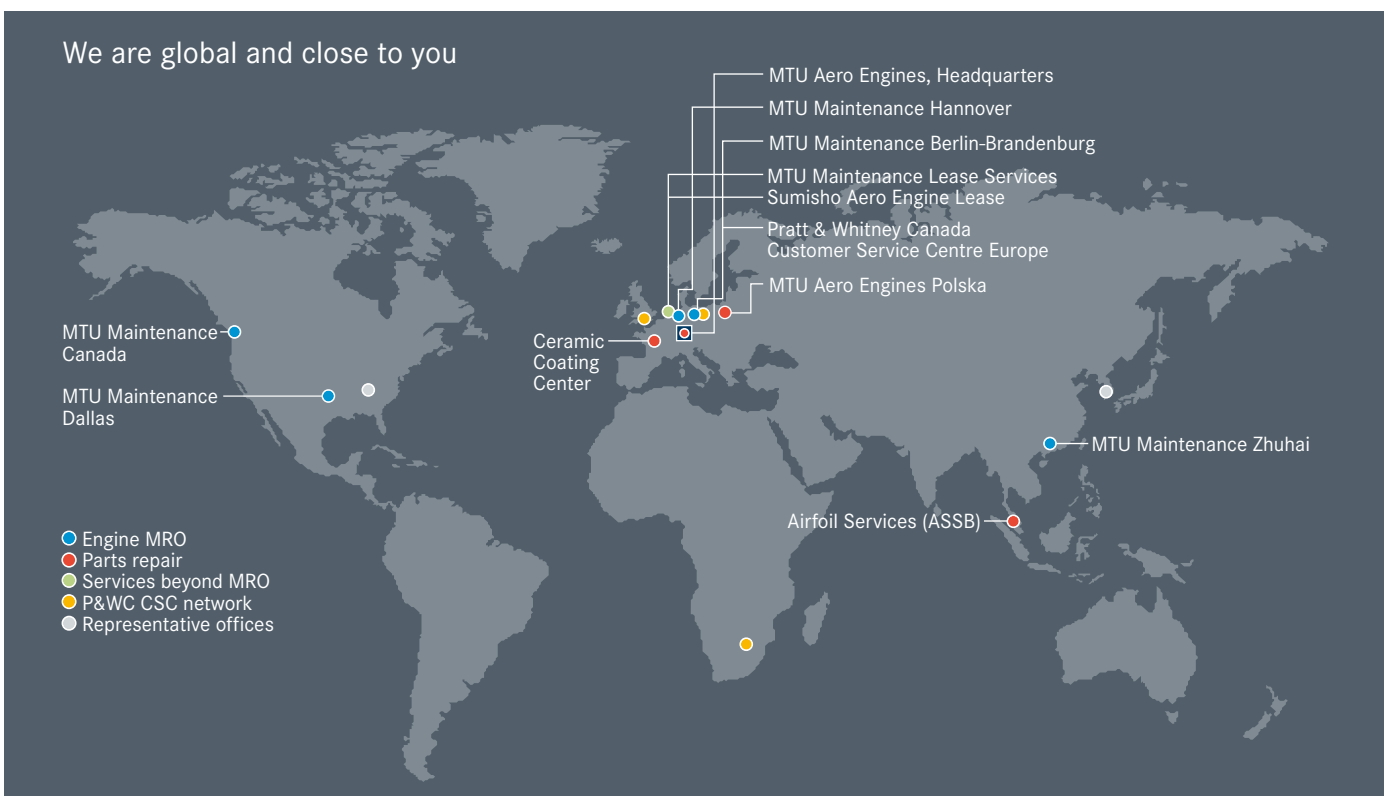
	Fan	LPC airfoils	HPC airfoils	Combustor	HPT airfoils	LPT airfoils	Cases & frames	Gearbox	Accessories
Widebody jets									
CF6-50	■	■	■	■	■	■	■	■	■
CF6-80C2	■	■	■	■	■	■	■	■	■
GE90-110B/-115B	■	■	■	■	■	■	■	■	■
GENx (TCF)	X	X	X	X	X	X	■	X	X
GP7000 (LPT)	X	X	X	X	X	■	■	X	X
Narrowbody and regional jets									
CF34-3/-8/-10E	■	X	■	■	■	■	■	■	■
CFM56-3	■	■	■	■	■	■	■	■	■
CFM56-5B	■	■	■	■	■	■	■	■	■
CFM56-7	■	■	■	■	■	■	■	■	■
PW1100G-JM ⁸	■	■	■	■	■	■	■	■	■
PW2000	■	■	■	■	■	■	■	■	■
PW6000	■	■	■	■	■	■	■	■	■
V2500-A1/-A5/-D5	■	■	■	■	■	■	■	■	■
Business jets									
JT15D ⁷	■	■	■	■	■	■	■	■	■
PW300	■	■	■	■	■ ⁷	■ ⁷	■	■	■ ⁷
PW500	■	■	■	■	■ ⁷	■ ⁷	■	■	■ ⁷
PW600 ⁷	■	■	■	■	■	■	■	■	■
PW800 ⁸	■	■	■	■	■	■	■	■	■
Turboprops									
PT6A	X	■	■	■	■ ⁷	■ ⁷	■	■	■ ⁷
PW100 ⁷ /150A ⁷	X	■	■	■	■	■	■	■	■
Helicopters									
PT6B/-C/-T ⁷	X	■	■	■	■	■	■	■	■
PW200	X	■	■	■	■ ⁷	■ ⁷	■	■	■ ⁷
PW210 ⁷	X	■	■	■	■	■	■	■	■

planned
 existing repair capability
 X not applicable

⁷ Repair capabilities within the P&WC network

⁸ Newly introduced; capabilities to be added

We are global and close to you





An MTU Aero Engines Company

MTU Aero Engines AG
Dachauer Straße 665
80995 Munich • Germany
Tel. +49 89 1489-0
Fax +49 89 1489-5500
info@mtu.de
www.mtu.de

MTU Maintenance
Berlin-Brandenburg GmbH
Dr.-Ernst-Zimmermann-Straße 2
14974 Ludwigsfelde • Germany
Tel. +49 3378 824-00
Fax +49 3378 824-300
AOG CF34 +49 3378 824-888
ludwigsfelde@mtu.de
www.mtu-berlin.de

MTU Maintenance
Lease Services B.V.
World Trade Center,
Office Tower B/16F
Strawinskylaan 1639
1077XX Amsterdam • Netherlands
Tel. +31 20705 2590
www.mtu-maintenance.com
services@mtu-lease-services.com

Ceramic Coating Center S.A.S.
Zone Industrielle Nord
Rue Maryse-Bastie
86100 Châtelleraut • France
Tel. +33 5 49 02 37 45
Fax +33 5 49 02 37 40
contact.info@ceramic-coating-
center.com
www.mtu.de

MTU Maintenance Canada Ltd.
6020 Russ Baker Way
Richmond, BC V7B 1B4 • Canada
Tel. +1 604 233-5700
Fax +1 604 233-5701
info@mtucanada.com
www.mtu-canada.com

MTU Maintenance Zhuhai Co. Ltd.
1 Tianke Road
Free Trade Zone
Zhuhai, 519030 • PR China
Tel. +86 756 8687-806
Fax +86 756 8687-901
AOG+86 138 23039999
mtu.maintenance@mtuzhuhai.com
AOG@mtuzhuhai.com
www.mtu-zhuhai.com

Pratt & Whitney Canada Customer
Service Centre Europe GmbH
Dr.-Ernst-Zimmermann-Straße 4
14974 Ludwigsfelde • Germany
Tel. +49 3378 824-01
Fax +49 3378 824-805
AOG P&WC +1 450 647 8000
www.mtu.de

MTU Maintenance Dallas, Inc.
615 Westport Parkway, Suite 600
Grapevine, Texas 76051
Tel. +1 817 442 4849
Fax +1 817 203 8649
On-site service +1 817 822 2454
customer.service@mtudallas.com
www.mtudallas.com

MTU Aero Engines Polska Sp.z.o.o.
Tajecina 108
36-002 Jasionka • Poland
Tel. +48 17 7710-482
Fax +48 17 7710-240
www.mtu-polska.com

MTU Maintenance Hannover GmbH
Münchner Straße 31
30855 Langenhagen • Germany
Tel. +49 511 7806-0
Fax +49 511 7806-2111
AOG +49 171 4314333
hannover@mtu.de
www.mtu-hannover.de

Airfoil Services Sdn. Bhd.
No 12 Jalan Teknologi
Taman Sains Selangor 1
Kota Damansara PJU5
47810 Petaling Jaya
Selangor Darul Ehsan • Malaysia
Tel. +60 3 6145-3600
Fax +60 3 6141-6813
info@airfoil.com.my
www.airfoilservices.com