

MICHELIN® MILITARY AIRCRAFT TIRES



COMMITTED TO MILITARY AVIATION FOR MORE THAN A CENTURY

Enhancing mobility in the air since 1908

In 1908, when manned flight was still in its infancy, the Michelin brothers understood the full potential of this new form of mobility and proposed a contest to encourage the development of the aviation industry. They were among the first to realize the power of aviation in combat and encouraged the progress of the military aviation industry.

1916



○ *Michelin built the world's first cement runway in Clermont-Ferrand for military training purpose.*

1917-1919



○ *Nearly 2,000 Bréguet airplanes were manufactured in Michelin's first plant.*



MICHELIN® military tires today

TWO TIRE TECHNOLOGIES FOR DIFFERENT APPLICATIONS:

The specific type of tire technology, bias or radial, is chosen to meet the unique requirements of the aircraft.

Primary Applications for Bias Technology:

TRANSPORT:

- Strong tire sidewalls help reduce tire damages when landing on rough surfaces.

HELICOPTERS:

- Better meets the helicopter tire stiffness requirement.



Primary Applications for Radial Technology:

FIGHTER JETS:

- As the inventor of radial technology, Michelin was the first to adapt this technological breakthrough to a military aircraft, the Mirage III, in 1981.
- Radial tires are lighter and recognized for their excellent reliability and superior performance.



A TECHNOLOGICAL LEADER IN THE AIRCRAFT INDUSTRY

Backed by a multi-million dollar R&D budget, Michelin is a driving force for innovation in aircraft tire technology.

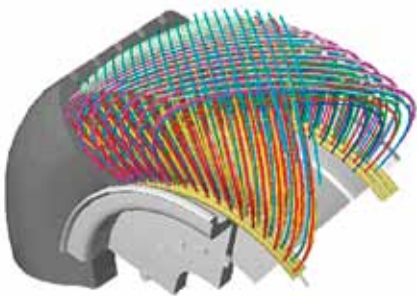
A long-term commitment to military aircraft manufacturers:

- Commitment to support key future military aircraft developments like the F-35A.
- Capacity to supply tires for the length of the aircraft life.

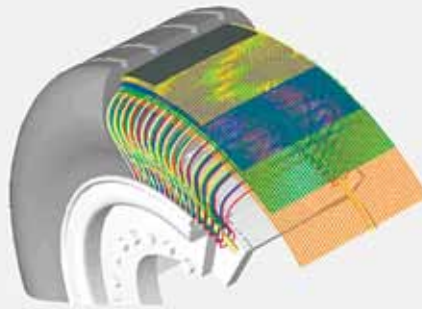
MICHELIN® BIAS TECHNOLOGY: PROVEN PERFORMANCE

RUGGED DESIGN FOR LONG TIRE LIFE

- Single or multiple bead structure creates a strong anchor to the wheel and increases overall casing strength.
- Better hazard resistance under extreme landing conditions thanks to a contoured shoulder design.
- Michelin's unique bias compound provides protection from ultraviolet rays and ozone deterioration.



Bias technology



Radial technology



MICHELIN® RADIAL TECHNOLOGY: PRECISION-ENGINEERED FOR HIGH PERFORMANCE



MICHELIN® radial tires offer the best balance of performances.

MORE RELIABLE

- Better resistance to Foreign Object Damage (FOD) resulting in reduced unscheduled maintenance.
- Wheel change frequency reduced by up to 50% for optimized aircraft operations.⁽¹⁾
- While they maintain cooler internal temperatures than bias tires, radial tires also cool down up to two times faster, enhancing turnaround time for aircraft availability.⁽²⁾
- Better capacity to withstand aircraft overload.

MORE ECONOMICAL

- Up to 100% more landings⁽¹⁾ than a bias counterpart resulting in a smaller logistical footprint.
- Weight savings help increase aircraft load capacity or range.

MORE ENVIRONMENTALLY FRIENDLY

- MICHELIN® radial tires use up to 22% fewer raw materials.⁽³⁾
- Fewer tires are used thanks to longer tire life.

⁽¹⁾ Radial compared to bias. Michelin's estimates based on a study of 6 representative fighter jet tire sizes.

⁽²⁾ Radial compared to equivalent bias. Michelin's measurements.

⁽³⁾ Michelin's calculation comparing tire mass vs. actual carried weight per tire.

Michelin offers its radial technology for all new fighter jet developments.



MICHELIN SPECIFIC FITMENTS FOR MILITARY AIRCRAFT APPLICATIONS

MODEL / SERIES	POPULAR NAME	POSITION	SIZE	PLY RATING	PART NUMBER	NSN
BOMBER						
Boeing						
B52 F,G,H	Stratofortress	WLG	32X8.8	16	041-712-0	2620-00-900-1191
B52 F,G,H	Stratofortress	MLG	56X16	38	008-794-1	2620-00-575-8886
Rockwell International						
B1 B		NLG	35X11.5-16	22	008-842-0	2620-01-208-2894
B1 B		MLG	B46X16.0-23.5	30	008-887-1	2620-00-202-5302

FIGHTER / ATTACK						
Boeing						
AV8B GR5	Harrier II	CLG	26X7.75R13	10	M16101	2620-01-252-2753
AV8B GR5	Harrier II	NLG	26X8.75R11	16	M16601	2620-99-783-3900
Dassault						
Alphajet		NLG	365X150R4		M01903	2620-14-421-4287
Alphajet		MLG	615X225R10		M10401	2620-14-433-3578
Alphajet Export		NLG	365X150R4		M01903	2620-14-421-4287
Alphajet Export		MLG	615X225R10		M10701	2620-14-421-4288
Jaguar		NLG	535X250R6		M01701	2620-14-433-3574
Jaguar		MLG	615X225R10		M10701	2620-14-421-4288
Mirage 2000		NLG	360X135R6		M00306	2620-14-516-5579
Mirage 2000		MLG	750X230R15		M00106	2620-14-516-6378
Mirage 50 / III / V		NLG	435X190R5		M00503	2620-14-433-3583
Mirage 50 / III / V		MLG	750X230R15		M00106	2620-14-516-6378
Mirage FI		NLG	360X135R6		M00306	2620-14-516-5579
Mirage FI		MLG	600X155R13		M00407	2620-14-416-5241
Rafale B,C		NLG	360X135R6		M06502	2620-14-516-6381
Rafale B,C		MLG	790X275R15		M05802	2620-14-516-6382
Rafale Marine		NLG	520X140R10.5		M07202	2620-14-516-6379
Rafale Marine		MLG	790X275R15		M08002	2620-14-516-6380
EADS						
Eurofighter EF2000	Typhoon	NLG	20X8.5R6.5		M103080	2620-14-516-1769
Eurofighter EF2000	Typhoon	MLG	30.5X10.0R17		M103180	2620-14-516-1771
Tornado	Hot&High	MLG	30X11.5R14.5	26	M13802	
Tornado	Holloman	MLG	30X11.5R14.5	26	M13801	2620-14-504-7849
Tornado	Netma	MLG	30X11.5R14.5	24	M10503	2620-14-445-5792
Fairchild						
A10 A	Thunder Bolt II	NLG	24X7.7	14	008-675-1	2620-00-618-0430
A10 A	Thunder Bolt II	MLG	36X11	22	008-742-4	2620-01-129-7607
Lockheed						
F16 A,B	Fighting Falcon	NLG	18X5.7-8	18	005-643-0	2620-01-157-3821
F16 A,B	Fighting Falcon	MLG	25.5X8.0-14	20	008-665-3	2620-01-493-7140



MODEL / SERIES	POPULAR NAME	POSITION	SIZE	PLY RATING	PART NUMBER	NSN
F16 A,B	Fighting Falcon	MLG	25.5X8.0R14	20	M00808	2620-01-536-6926
F16 C,D	Fighting Falcon	NLG	18X5.7-8	18	005-643-0	2620-01-157-3821
F16 C,D	Fighting Falcon	MLG	27.75X8.75-14.5	24	005-668-3	2620-01-277-2690
F16 C,D	Fighting Falcon	MLG	27.75X8.75R14.5	24	M07707	2620-01-316-7075
F16 E	Fighting Falcon	MLG	27.75X8.75-14.5	24	005-668-3	2620-01-277-2690
F16 E, F	Fighting Falcon	NLG	17.9X6.7R8	22	M16701	2620-14-556-1256
F16 E, F	Fighting Falcon	MLG	27.75X8.75R14.5	24	M07704	
F22	Raptor	NLG	23.5X7.5R10	22	M12401	
F22	Raptor	MLG	37X11.5R18	28	M11501	
Mc Donnell Douglas						
F15 A,B,C,D	Eagle	MLG	34.5X9.75-18	26	008-723-3	2620-01-055-4600
F15 Desert	Eagle	NLG	22X6.6-10	18	005-652-0	2620-01-493-7878
F15 Desert	Eagle	MLG	34.5X9.75-18	26	005-723-0	2620-01-493-7142
F15 E	Eagle	NLG	22X7.75R9	0	M06002	2620-01-231-6068
F15 E	Eagle	MLG	36X11.0R18	30	M06104	2620-01-235-2028
F18 C,D	Hornet	NLG	22X6.6-10	22	004-522-1	2620-01-464-6078
F18 C,D	Hornet	MLG	30X11.5-14.5	26	005-834-2	2620-00-165-4043
F18 E,F	Super Hornet	NLG	22X6.6-10	22	004-522-1	2620-01-464-6078
F18 E,F	Super Hornet	MLG	32X11.5-15	26	005-893-0	2620-01-455-4869

HELICOPTER

Agusta						
CH47 C		MNLG	8.50-10	12	004-351-0	2620-00-938-5964
Bell Boeing Helicopter						
V22	Osprey	NLG	18x5.7-8	14	008-649-1	2620-00-946-1108
V22	Osprey	MLG	8.50-10	12	001-351-0	2620-01-530-5087
Boeing Helicopter						
234	Chinook	MNLG	8.50-10	12	004-351-0	2620-00-938-5964
AH64 A, D	Apache, Longbow Apache	MLG	8.50-10	10	001-350-2	2620-01-168-0164
CH46 F	Sea Knight	MNLG	18x5.5	08	008-630-0	2620-00-277-5398
CH47 A	Chinook	MLG	22x5.5	12	012-640-0	2620-00-204-4820
CH47 B,C,D	Chinook	MNLG	8.50-10	12	004-351-0	2620-00-938-5964
Denel						
AH2A	Rooivalk	NLG	6.00-6	08	001-317-0	2620-00-060-7013
AH2A	Rooivalk	MLG	615x225-10	12	001-596-0	2620-14-534-7647
Eurocopter						
665	Tiger	MLG	23x9.00-8	10	001-570-0	2620-14-524-7025

For any other tire size not featured in the above listing, please contact your local sales office.



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MODEL / SERIES	POPULAR NAME	POSITION	SIZE	PLY RATING	PART NUMBER	NSN
AS332	Super Puma	MLG	615x225-10	12	001-596-0	2620-14-534-7647
SA319 SA316	Alouette III	MNLG	355x150-4	04	065-543-0	2620-14-514-6183
Kaman						
H43	Huskie	MNLG	5.00-5	10	041-311-0	2620-00-542-1366
HH2 D / SH2 D,F / UH2 C	SeaSprite	NLG	5.00-5	10	041-311-0	2620-00-542-1366
SH2 G	Super SeaSprite	NLG	5.00-5	10	041-311-0	2620-00-542-1366
Sikorsky						
H3 B,D,E	Sea King	NLG	6.00-6	08	001-317-0	2620-00-060-7013
H3 B,D,E	Sea King	MLG	6.50-10	10	001-356-0	2620-00-142-5280
H53 A,D	Sea Stallion	MLG	8.50-10	12	001-351-0	2620-01-530-5087
H53 A,D	Sea Stallion	MLG	8.50-10	10	001-350-1	2620-00-528-9235
H53 A,D	Sea Stallion	NLG	8.50-10	12	001-351-0	2620-01-530-5087
H53 A,D	Sea Stallion	NLG	8.50-10	10	001-350-1	2620-00-528-9235
H53 E	Super Stallion	MNLG	8.50-10	12	001-351-0	2620-01-530-5087
H60 A	Blackhawk	NLG	15x6.0-6	06	041-501-0	2620-01-101-5087
H60 A	Blackhawk	MLG	26x10.0-11	12	001-822-1	2620-01-137-3398
H60 A	Blackhawk	MLG	26x10.0-11	10	001-822-0	2620-01-118-5543
H60 B	Seahawk	MLG	26x10.0-11	12	001-822-1	2620-01-137-3398
H60 B	Seahawk	MLG	26x10.0-11	10	001-822-0	2620-01-118-5543
H60 B	Seahawk	NLG	6.00-6	08	001-317-0	2620-00-060-7013
S70 A		MLG	26x10.0-11	12	001-822-1	2620-01-137-3398
Westland						
Lynx MK9		NLG	6.00-6	08	001-317-0	2620-00-060-7013
Lynx MK9		MLG	8.50-10	10	001-350-1	2620-00-528-9235
Sea King		NLG	6.00-6	08	001-317-0	2620-00-060-7013
Sea King		MLG	6.50-10	10	001-356-0	2620-00-142-5280
Westland 30		MLG	6.50-10	10	001-356-0	2620-00-142-5280

SPECIAL PURPOSE

Boeing						
E3 A,D	AWACS	NLG	39X13	16	008-755-0	2620-00-993-1278
E3 A,D	AWACS	MLG	46X16	28	039-784-3	2620-00-084-6037
E4 A	747	MNLG	49X17	30	039-789-2	
E4 A	747	MNLG	49X17	32	032-791-3	
E4 A	747	NLG	49X17	30	029-789-0	
KC135	Stratotanker	NLG	38X11	14	001-748-2	2620-00-137-0262
KC135	Stratotanker	MLG	49X17	26	008-787-1	2620-00-575-8893
Grumman						
E2 C	Hawkeye	NLG	20X5.5	14	007-636-0	2620-00-936-9416
E2 C	Hawkeye	MLG	36X11	24	008-743-1	2620-00-834-7441
EA6 B	Prowler	NLG	20X5.5	16	001-634-1	2620-00-169-0143
EA6 B	Prowler	MLG	36X11	24	008-743-1	2620-00-834-7441



MODEL / SERIES	POPULAR NAME	POSITION	SIZE	PLY RATING	PART NUMBER	NSN
S2	Tracker	MLG	34X9.9	14	001-726-0	2620-00-528-9203
Lockheed						
P2 H	Neptune	NLG	34X9.9	14	001-726-0	2620-00-528-9203
P3 A,B,C,F,K	Orion	NLG	28X7.7	14	008-683-0	2620-00-061-4108
P3 A,B,C,F,K	Orion	MLG	40X14	28	012-771-0	2620-00-928-4502
S3 A,B	Viking	NLG	22X6.75-10	18	003-525-0	2620-00-351-5855
S3 A,B	Viking	MLG	30X11.5-14.5	26	005-834-2	2620-00-165-4043
MC Donnell Douglas						
KC10	Extender	NLG	40X15.5-16	28	020-848-0	
KC10	Extender	MLG	52X20.5-23	30	020-885-0	

TRAINER

British Aerospace						
Hawk TMk1/1A		NLG	16X4.4	8	021-606-0	2620-14-554-7573
Cessna						
T37	Tweet	NLG	16X4.4	6	041-605-0	2620-00-555-2267
T37	Tweet	MLG	20X4.4	14	008-622-3	2620-01-042-2783
Embraer						
EMB121	Xingu	NLG	16X4.4	8	021-606-0	2620-14-554-7573
EMB121	Xingu	MLG	670X210-12	10	028-667-2	2620-14-554-7571
EMB312	Tucano	NLG	5.00-5	10	071-311-0	
EMB312	Tucano	MLG	6.50-10	8	076-345-0	
Hawker						
T6A Model 3000	Texan II	NLG	16X4.4	8	021-606-0	2620-14-554-7573
T6A Model 3000	Texan II	MLG	20X4.4	14	008-622-3	2620-01-042-2783
Mc Donnell Douglas						
T45 A	Goshawk	NLG	19X5.25-10	12	001-626-0	2620-00-026-2001
T45 A	Goshawk	MLG	24X7.7	20	006-686-0	
Northrop						
T38 A, B	Talon	NLG	18X4.4	6	001-611-0	2620-00-554-2459
T38 A, B	Talon	MLG	20X4.4	14	008-622-3	2620-01-042-2783
Pilatus						
PC21		MLG	20X4.4R12	14	M16301	
PC21		NLG	16x4.4R8	12	M16201	
PC7		MLG	6.50-8	8	061-338-2	
PC7 MkII		NLG	16X4.4	8	021-606-0	2620-14-554-7573
PC7 MkII		NLG	6.00-6	8	021-317-1	
PC7 MkII		MLG	6.50-8	8	025-338-0	2620-01-460-5147
PC9		MLG	20X4.4	8	028-619-0	
PC9, PC9 M		NLG	16X4.4	8	021-606-0	2620-14-554-7573
PC9, PC9 M		NLG	6.00-6	8	021-317-1	
PC9, PC9 M		MLG	6.50-8	8	025-338-0	2620-01-460-5147

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MODEL / SERIES	POPULAR NAME	POSITION	SIZE	PLY RATING	PART NUMBER	NSN
TRANSPORT						
Boeing						
C135	Stratolifter	NLG	38X11	14	001-748-2	2620-00-137-0262
C135	Stratolifter	MLG	49X17	26	008-787-1	2620-00-575-8893
C17	Globemaster III	NLG	40X16.0-14	26	008-846-0	2620-01-409-1814
C17	Globemaster III	MLG	50X21.0-20	30	004-877-1	2620-01-494-0888
T43	737	NLG	24X7.7	14	038-675-2	
T43	737	MLG	40X14	24	039-769-2	
Lockheed						
C130 A,B,D,E,F	Hercules	NLG	12.50-16	12	008-369-0	2620-00-834-6673
C130 A,B,D,E,F, H,K,N,P	Hercules	MLG	20.00-20	26	008-413-2	2620-00-142-5161
C5 A,B	Galaxy	MNLG	49X17	26	001-787-2	2620-00-702-2972

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RETREADABILITY

Michelin retreads most military transport aircraft tires as well as tires for some fighter jets to the highest quality standards.



TOP-QUALITY SERVICE AROUND THE GLOBE

Michelin's military tire expertise can be delivered on all three continents. We have a dedicated sales force and customer support engineers around the globe to best serve your needs.



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