



MRO



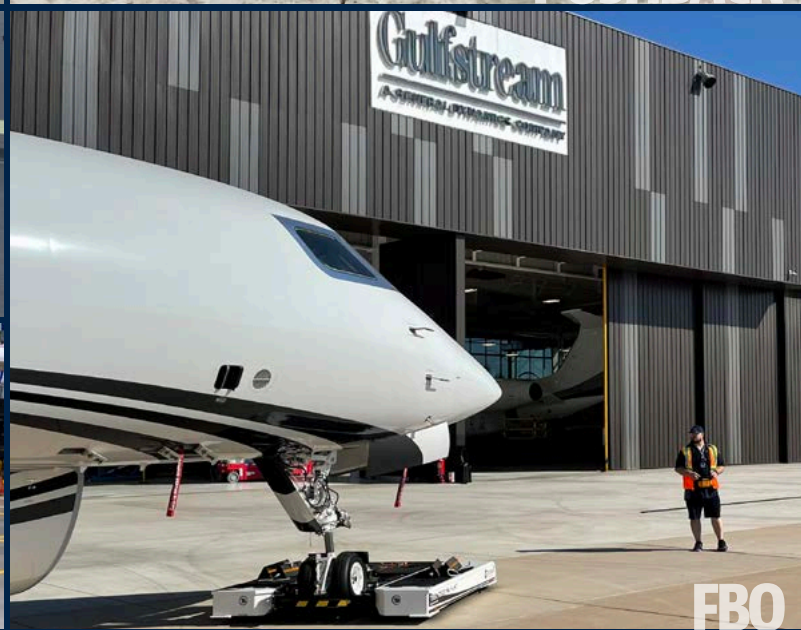
PUSHBACK



HELICOPTER



MILITARY



FBO

Model Overview

Improve Your Efficiency Significantly.

The Safest and Most Effective Way of Moving Aircraft Towbarless.

Electrify Your Ground Handling.



FULLY ELECTRIC DRIVE



REMOTELY CONTROLLED



HANDS FREE LOADING WITH A TAP ON THE RC



HYDRAULIC AND SENSOR CONTROLLED PLATFORM





SPACER 200



SPACER 8600 MA



SPACER 8600 NG



Field of Application

MRO/FBO

MRO/FBO

Pushback

Usecase

Airbus A220, A318, A319, A320, A321
Airbus A330, A340, A350
Boeing 757, 767, 777,

Airbus A220, A318, A319, A320, A321
Boeing 737 + MAX

Airbus A220, A318, A319, A320, A321
Boeing 737 + MAX
Embraer E135, E170, E190 + E2 MHI

Towing Capacity	200 t 440.900 lbs	80 t 176.400 lbs	105 t 231.486 lbs
Nosewheel weight capacity	22 t 48.500 lbs	8 t 17.600 lbs	10 t 22.046 lbs
Dimensions width x length x height	3.988 x 3.999 x 879 mm 157,01 x 157,44 x 34,61 inch	2.610 x 3.305 x 553 mm 102,76 x 130,12 x 21,77 inch	2.800 x 3.555 x 701 mm 110,24 x 139,96 x 27,6 inch
Ground clearance	73 mm 2,87 inch	81 mm 3,19 inch	73 mm 2,87 inch
Max Width of the Nosewheel	1.400 mm 55,12 inch	851 mm 33,5 inch	851 mm 33,5 inch
Nosewheel Diameter	650 – 1.200 mm 25,59 – 47,24 inch	450 – 850 mm 17,72 – 33,46 inch	640 – 850 mm 25,2 – 33,46 inch
Unladen weight	13.000 kg 28.660 lbs	5.400 kg 11.900 lbs	5.100 kg 11.244 lbs
Motor performance	12 kw	6,9 kw	–
Drive Wheel Width	–	–	305 mm 12,01 inch
Drive Wheel Diameter	–	–	563 mm 22,17 inch
Speed	1,11 m/s 4 km/h 2,49 mph	1,5 m/s 5,4 km/h 3,36 mph	–
Batteries	4 x 330 Ah	4 x 300 Ah	4 x 330 Ah
Voltage	96 V	80 V	96 V
Tyres	puncture proof tyres	puncture proof tyres	puncture-proof super elastomer tyres





TWIN 7500 NG Flat

TWIN 7500 NG

TWIN 6600 NG



Field of Application	MRO/FBO, Helicopter	MRO/FBO, Helicopter	MRO/FBO, Helicopter
Usecase	Pilatus PC-12 Pilatus PC-24 Hawkers Gulfstream G280, G300, G350 Gulfstream GIV (G450) Gulfstream G500/G600, G650 Gulfstream G700, G800 Embraer Phenom 300 Embraer Praetor 500, 600 Embraer Legacy Bombardier Challenger 300, 604 Bombardier Challenger 3500, 650 Bombardier Global Express Bombardier Global 6500, 5500 Bombardier Global 7500, 8000 Boeing Business Jet Citation CJ1, CJ2, CJ2+, Sovereign Piper Diamond King Air Learjet Sikorsky Agusta-Leonardo Lockheed Martin F16, F35 Aermacchi T346 - MB 339, T 345 ATR 42 200-600, ATR 72 200-600	Pilatus PC-12 Pilatus PC-24 Hawkers Gulfstream G280, G300, G350 Gulfstream GIV (G450) Gulfstream G500/G600, G650 Gulfstream G700, G800 Embraer Phenom 300 Embraer Praetor 500, 600 Embraer Legacy Bombardier Challenger 300, 604 Bombardier Challenger 3500, 650 Bombardier Global Express Bombardier Global 6500, 5500 Bombardier Global 7500, 8000 Boeing Business Jet Citation CJ1, CJ2, CJ2+, Sovereign Piper Diamond King Air Learjet Sikorsky Agusta-Leonardo Lockheed Martin F16, F35 Aermacchi T346 - MB 339, T 345 ATR 42 200-600, ATR 72 200-600	Pilatus PC-12 Pilatus PC-24 Hawkers Gulfstream G280, G300, G350 Gulfstream GIV (G450) Gulfstream G500/G600, G650, G700 Embraer Phenom 300 Embraer Praetor 500, 600 Bombardier Challenger 300, 604 Bombardier Challenger 3500, 650 Bombardier Global Express Bombardier Global 6500 Citation CJ1, CJ2, CJ2+, Sovereign Piper Diamond King Air Learjet Sikorsky Agusta Leonardo Lockheed Martin F16, F35 Aermacchi T346 - MB 339, T 345 ATR 42 200-600, ATR 72 200-600
Towing Capacity	75 t 165.300 lbs	75 t 165.300 lbs	55 t 121.200 lbs
Nosewheel weight capacity	7,5 t 16.500 lbs	7,5 t 16.500 lbs	6 t 13.200 lbs
Dimensions width x length x height	2.136 x 2.596 x 324 mm 84,09 x 102,2 x 12,76 inch	2.136 x 2.596 x 350 mm 84,09 x 102,2 x 13,78 inch	2.136 x 2.596 x 363 mm 84,09 x 102,2 x 14,29 inch
Ground clearance	85 mm 3,35 inch	110 mm 4,33 inch	110 mm 4,33 inch
Max Width of the Nosewheel	665 mm 26,18 inch	665 mm 26,18 inch	665 mm 26,18 inch
Nosewheel Diameter	180 – 670 mm 7,09 – 26,38 inch	180 – 670 mm 7,09 – 26,38 inch	180 – 670 mm 7,09 – 26,38 inch
Unladen weight	2.100 kg 4.600 lbs	2.100 kg 4.600 lbs	1.700 kg 3.750 lbs
Motor performance	5 kw	5 kw	3,2 kw
Drive Wheel Width	100 mm 3,94 inch	100 mm 3,94 inch	130 mm 5,12 inch
Drive Wheel Diameter	300 mm 11,81 inch	300 mm 11,81 inch	350 mm 13,78 inch
Speed	1,05 m/s 3,78 km/h 2,35 mph	1,05 m/s 3,78 km/h 2,35 mph	1,9 m/s 6,84 km/h 4,25 mph
Batteries	4 x 210 Ah	4 x 210 Ah	4 x 210 Ah
Voltage	48 V	48 V	48 V
Tyres	puncture proof tyres with quartz sand particles	puncture proof tyres with quartz sand particles	puncture proof tyres





TWIN 6500 NG Flat

TWIN 3900 NG

T 7000



Field of Application	MRO/FBO, Helicopter	MRO/FBO, Helicopter	MRO/FBO, Helicopter
Usecase	Pilatus PC-12 Pilatus PC-24 Hawkers Gulfstream G280, G300, G350 Embraer Phenom 300 Embraer Praetor 500, 600 Bombardier Challenger 300, 604 Bombardier Challenger 3500, 650 Citation CJ, CJ2. CJ2+, Sovereign Piper Diamond King Air Learjet Sikorsky Agusta-Leonardo Lockheed Martin F16, F35 Aermacchi T346 - MB 339, T 345 ATR 42 200-600. ATR 72 200-600	Pilatus PC-12 Pilatus PC-24 Hawkers Gulfstream G280, G300, G350 Embraer Phenom 300 Embraer Praetor 500. 600 Bombardier Challenger 300, 604 Bombardier Challenger 3500, 650 Citation CJ, CJ2. CJ2+, Sovereign Piper Diamond King Air Learjet Sikorsky Agusta-Leonardo Lockheed Martin F16, F35 Aermacchi T346 - MB 339. T 345	Embraer E135, E170, E190 + E2 MHI CRJS Pilatus PC-12 Pilatus PC-24 Hawkers Gulfstream G280, G300, G350 Gulfstream GIV (G450) Gulfstream G500/G600, G650 Gulfstream G700, G800 Embraer Phenom 300 Embraer Praetor 500, 600 Embraer Legacy Bombardier Challenger 300, 604 Bombardier Challenger 3500, 650 Bombardier Global Express Bombardier Global 6500. 5500 Bombardier Global 7500, 8000 Boeing Business Jet Citation CJ1, CJ2. CJ2+, Sovereign Piper Diamond King Air · Learjet Sikorsky · Agusta-Leonardo Lockheed Martin F16, F35 Aermacchi T346 - MB 339. T 345 ATR 42 200-600. ATR 72 200-600
Towing Capacity	50 t 110.200 lbs	39 t 86.000 lbs	75 t 165.300 lbs
Nosewheel weight capacity	6 t 13.200 lbs	4,5 t 9.900 lbs	7,5 t 16.500 lbs
Dimensions width x length x height	2.136 x 2.596 x 324 mm 84,09 x 102,2 x 12,76 inch	2.136 x 2.596 x 350 mm 84,09 x 102,2 x 13,78 inch	2.136 x 2.596 x 350 mm 84,09 x 102,2 x 12,76 inch
Ground clearance	85 mm 3,35 inch	110 mm 4,33 inch	110 mm 4,33 inch
Max Width of the Nosewheel	665 mm 26,18 inch	665 mm 26,18 inch	665 mm 26,18 inch
Nosewheel Diameter	180 – 670 mm 7,09 – 26,38 inch	180 – 670 mm 7,09 – 26,38 inch	180 – 670 mm 7,09 – 26,38 inch
Unladen weight	1.700 kg 3.750 lbs	1.700 kg 3.750 lbs	2.100 kg 4.600 lbs
Motor performance	2,5 kw	2,5 kw	5 kw
Drive Wheel Width	100 mm 3,94 inch	100 mm 3,94 inch	100 mm 3,94 inch
Drive Wheel Diameter	300 mm 11,81 inch	300 mm 11,81 inch	300 mm 11,81 inch
Speed	1,5 m/s 5,4 km/h 3,36 mph	1,5 m/s 5,4 km/h 3,36 mph	1,5 m/s 5,4 km/h 3,36 mph
Batteries	4 x 210 Ah	4 x 210 Ah	4 x 210 Ah
Voltage	48 V	48 V	48 V
Tyres	puncture proof tyres	puncture proof tyres	puncture proof tyres with quartz sand particles





M 528



M 518



M 515



Field of Application	MRO/FBO, Helicopter	MRO/FBO, Helicopter	MRO/FBO, Helicopter
Usecase	Pilatus PC-12 Pilatus PC-24 Gulfstream G280 Embraer Phenom 300 Embraer Praetor 500. 600 Bombardier Challenger 300, 604 Bombardier Challenger 3500, 650 Citation CJ1, CJ2. CJ2+ Piper Diamond King Air Learjet Sikorsky Agusta-Leonardo Lockheed Martin F16 Aermacchi T346 - MB 339. T 345	Pilatus PC-12 Pilatus PC-24 Gulfstream G280 Embraer Phenom 300 Embraer Praetor 500 Bombardier Challenger 300 Citation CJ1, CJ2. CJ2+ Piper Diamond King Air Learjet Sikorsky Agusta-Leonardo Aermacchi MB 339	Pilatus PC-12 Pilatus PC-24 Citation CJ1, CJ2. CJ2+ Embraer Phenom 300 Embraer Praetor 500 Piper Diamond King Air Learjet Sikorsky Agusta-Leonardo Lockheed Martin F16 Aermacchi T346 - MB 339, T 345

Towing Capacity	28 t 61.700 lbs	18 t 39.700 lbs	15 t 33.000 lbs
Nosewheel weight capacity	2 t 4.400 lbs	1,5 t 3.300 lbs	1,5 t 3.300 lbs
Dimensions width x length x height	1.810 x 1.810 x 330 mm 71,26 x 71,26 x 12,99 inch	1.810 x 1.810 x 330 mm 71,26 x 71,26 x 12,99 inch	1.810 x 1.810 x 330 mm 71,26 x 71,26 x 12,99 inch
Ground clearance	80 mm 3,15 inch	80 mm 3,15 inch	80 mm 3,15 inch
Max Width of the Nosewheel	500 mm 19,69 inch	500 mm 19,69 inch	500 mm 19,69 inch
Nosewheel Diameter	150 – 500 mm 5,91 – 19,69 inch	150 – 500 mm 5,91 – 19,69 inch	150 – 500 mm 5,91 – 19,69 inch
Unladen weight	1.000 kg 2.200 lbs	1.000 kg 2.200 lbs	900 kg 1.980 lbs
Motor performance	1,3 kw	1,3 kw	1,3 kw
Drive Wheel Width	–	–	–
Drive Wheel Diameter	–	–	–
Speed	1,45 m/s 5,22 km/h 3,25 mph	1,45 m/s 5,22 km/h 3,25 mph	1,45 m/s 5,22 km/h 3,25 mph
Batteries	4 x 115 Ah	4 x 115 Ah	4 x 115 Ah
Voltage	48 V	48 V	48 V
Tyres	puncture proof tyres	puncture proof tyres	puncture proof tyres




LB 7500 NG Flat
LB 7500 NG
LB 6600 NG


Field of Application	Military, Helicopter	Military, Helicopter	Military, Helicopter
Usecase	Pilatus PC-12 Pilatus PC-24 Hawkers Gulfstream G280, G300, G350 Gulfstream GIV (G450) Gulfstream G500/G600, G650 Gulfstream G700, G800 Embraer Phenom 300 Embraer Praetor 500, 600 Embraer Legacy Bombardier Challenger 300, 604 Bombardier Challenger 3500, 650 Bombardier Global Express Bombardier Global 6500, 5500 Bombardier Global 7500, 8000 Boeing Business Jet Citation CJ1, CJ2, CJ2+, Sovereign Piper Diamond King Air Learjet Sikorsky Agusta-Leonardo Lockheed Martin F16, F35 Aermacchi T346 - MB 339, T 345 ATR 42 200-600, ATR 72 200-600	Pilatus PC-12 Pilatus PC-24 Hawkers Gulfstream G280, G300, G350 Gulfstream GIV (G450) Gulfstream G500/G600, G650 Gulfstream G700, G800 Embraer Phenom 300 Embraer Praetor 500, 600 Embraer Legacy Bombardier Challenger 300, 604 Bombardier Challenger 3500, 650 Bombardier Global Express Bombardier Global 6500, 5500 Bombardier Global 7500, 8000 Boeing Business Jet Citation CJ1, CJ2, CJ2+, Sovereign Piper Diamond King Air Learjet Sikorsky Agusta-Leonardo Lockheed Martin F16, F35 Aermacchi T346 - MB 339, T 345 ATR 42 200-600, ATR 72 200-600	Pilatus PC-12 Pilatus PC-24 Hawkers Gulfstream G280, G300, G350 Gulfstream GIV (G450) Gulfstream G500/G600, G650, G700 Embraer Phenom 300 Embraer Praetor 500, 600 Bombardier Challenger 300, 604 Bombardier Challenger 3500, 650 Bombardier Global Express Bombardier Global 6500 Citation CJ1, CJ2, CJ2+, Sovereign Piper Diamond King Air Learjet Sikorsky Agusta Leonardo Lockheed Martin F16, F35 Aermacchi T346 - MB 339, T 345 ATR 42 200-600, ATR 72 200-600
Towing Capacity	75 t 165.300 lbs	75 t 165.300 lbs	55 t 121.200 lbs
Nosewheel weight capacity	6,5 t 14.330 lbs	6,5 t 14.330 lbs	6 t 13.200 lbs
Dimensions width x length x height	2,136 x 2,596 x 324 mm 84,09 x 102,2 x 12,76 inch	2,136 x 2,596 x 350 mm 84,09 x 102,2 x 13,78 inch	2,136 x 2,596 x 363 mm 84,09 x 102,2 x 14,29 inch
Ground clearance	85 mm 3,35 inch	110 mm 4,33 inch	110 mm 4,33 inch
Max Width of the Nosewheel	665 mm 26,18 inch	665 mm 26,18 inch	665 mm 26,18 inch
Nosewheel Diameter	180 – 670 mm 7,09 – 26,38 inch	180 – 670 mm 7,09 – 26,38 inch	180 – 670 mm 7,09 – 26,38 inch
Unladen weight	2.100 kg 4.600 lbs	2.100 kg 4.600 lbs	1.700 kg 3.750 lbs
Motor performance	5 kw	5 kw	3,2 kw
Drive Wheel Width	100 mm 3,94 inch	100 mm 3,94 inch	130 mm 5,12 inch
Drive Wheel Diameter	300 mm 11,81 inch	300 mm 11,81 inch	350 mm 13,78 inch
Speed	1,05 m/s 3,78 km/h 2,35 mph	1,05 m/s 3,78 km/h 2,35 mph	1,9 m/s 6,84 km/h 4,25 mph
Batteries	4 x 210 Ah	4 x 210 Ah	4 x 210 Ah
Voltage	48 V	48 V	48 V
Tyres	puncture proof tyres with quartz sand particles	puncture proof tyres with quartz sand particles	puncture proof tyres





LB 6500 NG Flat



LB 3900 NG



LB 528



Field of Application	Military, Helicopter	Military, Helicopter	Military, Helicopter
Usecase	Pilatus PC-12 Pilatus PC-24 Hawkers Gulfstream G280, G300, G350 Embraer Phenom 300 Embraer Praetor 500, 600 Bombardier Challenger 300, 604 Bombardier Challenger 3500, 650 Citation CJ1, CJ2. CJ2+, Sovereign Piper Diamond King Air Learjet Sikorsky Agusta-Leonardo Lockheed Martin F16, F35 Aermacchi T346 - MB 339, T 345 ATR 42 200-600, ATR 72 200-600	Pilatus PC-12 Pilatus PC-24 Hawkers Gulfstream G280, G300, G350 Embraer Phenom 300 Embraer Praetor 500, 600 Bombardier Challenger 300, 604 Bombardier Challenger 3500, 650 Citation CJ1, CJ2. CJ2+, Sovereign Piper Diamond Piper Diamond King Air Learjet Sikorsky Agusta-Leonardo Lockheed Martin F16, F35 Aermacchi T346 - MB 339. T 345	Pilatus PC-12 Pilatus PC-24 Gulfstream G280 Embraer Phenom 300 Embraer Praetor 500. 600 Bombardier Challenger 300, 604 Bombardier Challenger 3500, 650 Citation CJ1, CJ2. CJ2+ Piper Diamond King Air Learjet Sikorsky Agusta-Leonardo Lockheed Martin F16 Aermacchi T346 - MB 339. T 345

Towing Capacity	50 t 110.200 lbs	39 t 86.000 lbs	28 t 61.700 lbs
Nosewheel weight capacity	6 t 13.200 lbs	4,5 t 9.900 lbs	2 t 4.400 lbs
Dimensions width x length x height	2,136 x 2,596 x 324 mm 84,09 x 102,2 x 12,76 inch	2,136 x 2,596 x 350 mm 84,09 x 102,2 x 13,78 inch	1,81 x 1,81 x 330 mm 71,26 x 71,26 x 12,99 inch
Ground clearance	85 mm 3,35 inch	110 mm 4,33 inch	80 mm 3,15 inch
Max Width of the Nosewheel	665 mm 26,18 inch	665 mm 26,18 inch	500 mm 19,69 inch
Nosewheel Diameter	180 – 670 mm 7,09 – 26,38 inch	180 – 670 mm 7,09 – 26,38 inch	150 – 500 mm 5,91 – 19,69 inch
Unladen weight	1.700 kg 3.750 lbs	1.700 kg 3.750 lbs	1.000 kg 2.200 lbs
Motor performance	2,5 kw	2,5 kw	1,3 kw
Drive Wheel Width	100 mm 3,94 inch	100 mm 3,94 inch	–
Drive Wheel Diameter	300 mm 11,81 inch	300 mm 11,81 inch	–
Speed	1,5 m/s 5,4 km/h 3,36 mph	1,5 m/s 5,4 km/h 3,36 mph	1,45 m/s 5,22 km/h 3,25 mph
Batteries	4 x 210 Ah	4 x 210 Ah	4 x 115 Ah
Voltage	48 V	48 V	48 V
Tyres	puncture proof tyres	puncture proof tyres	puncture proof tyres





LB 9500

WIDE 14

Alligator 4000



Field of Application	Military	Military	Helicopter
Usecase	Lockheed Martin C130	Lockheed Martin C130	Helicopter

Towing Capacity	86 t 190.000 lbs	75 t 165.300 lbs	50 t 110.231 lbs
Nosewheel weight capacity	11,8 t 26.000 lbs	7 t 15.430 lbs	3,5 t 7.720 lbs
Dimensions width x length x height	2,577 x 2,029 x 639 mm 101,46 x 78,88 x 25,16 inch	2,956 x 2,596 x 316 mm 116,38 x 102,2 x 12,44 inch	2.812 x 2.505 x 320 mm 110,71 x 98,62 x 12,6 inch
Ground clearance	78 mm 3,07 inch	95 mm 3,74 inch	–
Max Width of the Nosewheel	1.100 mm 43,31 inch	1.425 mm 56,1 inch	800 mm 31,5 inch
Nosewheel Diameter	600 – 1.000 mm 23,62 – 39,37 inch	180 – 670 mm 7,09 – 26,38 inch	330 – 480 mm 12,99 – 18,9 inch
Unladen weight	–	1.700 kg 3.750 lbs	2.300 kg 5.071 lbs
Motor performance	–	5 kw	–
Drive Wheel Width	–	100 mm 3,94 inch	100 mm 3,94 inch
Drive Wheel Diameter	–	300 mm 11,81 inch	300 mm 11,81 inch
Speed	–	1,05 m/s 3,78 km/h 2,35 mph	1,05 m/s 3,78 km/h 2,35 mph
Batteries	–	4 x 210 Ah	4 x 210 Ah
Voltage	–	48 V	48 V
Tyres	puncture proof tyres	puncture proof tyres with quartz sand particles	puncture proof tyres



Mototok was founded in 2003 by Kersten Eckert, avid aviator and creator of the Mototok, and his friend and partner Thilo Wiers-Keiser.

FUELLED BY PASSION

The invention of our aircraft tugs is a deeply personal story that began with Kersten Eckert's first solo flight at 18. His growing aggravation about a process efficient-minded Eckert considered far from ideal: Maneuvering the aircraft while on the ground. You know the rigmarole: Waiting for the machine being laboriously transported out of the hangar, depending on having two or even three people available to watch his wings and fuselage, needing a pilot to sit inside the aircraft ready to brake if needed ...Eckert became determined on finding not only a better, but the perfect way in terms of space, speed, and effort.

CREATING THE PERFECT PRODUCT

Mototok has achieved market leadership in the segment of compact, tow-barless, remote-controlled and battery-powered tugs through excellent quality, ease of use and high safety standards.

In the meantime, more than 1,500 units of all sizes are in use worldwide. Since 2017, Mototoks have already completed over 1,000,000 pushbacks with 28 Units at Heathrow Airport, Terminal 5A alone – a huge advantage for the local operator British Airways, which says it has been able to significantly reduce delays by up to 70%.

Due to this high level of experience, more and more aircraft manufacturers are turning to Mototok tugs.

Hydraulic control and monitoring via a multitude of sensors, combined with connectivity to the Mototok Cloud and associated remote maintenance, make Mototok Tugs truly unique in the market.

Learn more about Mototok at www.mototok.com.

These aircraft manufacturers, among others, trust Mototok in their subsidiaries all over the world:

AIRBUS
Hamburg / Toulouse

BOMBARDIER
the evolution of mobility
Montreal, Singapore, Berlin

 **DASSAULT**
AVIATION
Merignac, France /
Little Rock, Arkansas, US

LOCKHEED MARTIN 
for F35, CH-53K, Blackhawk UH-60
and Seahawk SH-60

 **EMBRAER**
Brasil

Gulfstream
at 5 sites in the US

 **PILATUS**
Switzerland

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easy moving