

April 2, 2019
ITEM 14.E.1


INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS

INTER-OFFICE MEMORANDUM

TO: Members of the Board of County Commissioners

DATE: March 27, 2019

SUBJECT: Letter of support for Piper Aircraft to supply Governor DeSantis' new business aircraft

FROM: Tim Zorc
Commissioner, District 3 

Discussion Item:

Governor DeSantis is in need of one or more aircraft to conduct state business. I'd like to request a letter of support for Piper Aircraft be sent to the Governor, the House and Senate Appropriations Committees, and any other party(s) that will be involved in the funding to purchase these new aircraft.

Piper Aircraft has been a Florida-based manufacturer since 1961 and is over 90% vertically integrated, meaning that Piper builds over 90% of the components needed for their aircraft in Vero Beach; they are not an "aircraft assembler" like other, foreign manufacturers in Florida. Since 2010, Piper's employment levels have grown 67% and production has increased from 126 units in 2010 to over 300 this year.

Piper's M-Class family of products are ideally suited to business operations and offer the best operating economics and safety features of any new cabin class aircraft. The M600 provides 274 knots true airspeed (KTAS), more than 1,600 nautical miles of range, and can carry 5 passengers and a pilot. The M600 also features state-of-the-art cockpit and cabin innovations with the latest safety features available for general aviation aircraft. Finally, Piper offers service centers and support throughout the United States, including one in Tallahassee.

M600

2019 SPECIFICATION BOOK

Piper[®]

FREEDOM OF FLIGHT

CABIN CLASS • SINGLE-ENGINE • PRESSURIZED TURBOPROP



M-CLASS: M350 | M500 | M600

AVIONICS

GARMIN G3000 IS AT THE FOREFRONT OF TECHNOLOGY

From intuitive pilot input through touchscreen controllers to increased situational awareness, the G3000, as installed in the M600, is the most advanced avionics available for single-engine turboprop aircraft. Features like 60/40 Mode and enhanced map display bring invaluable situational information right in front of the pilot. No longer does the pilot need to, on approach, sacrifice their scan from the instruments to look down at the approach plate.

CONNECTED AIRCRAFT

G3000's ability to simplify and streamline your piloting workload starts even before you climb into the cockpit. With the addition of an optional Flight Stream 510 wireless gateway, your G3000 avionics system becomes capable of streaming information in real time between your avionics and compatible mobile devices running the Garmin Pilot™ or ForeFlight Mobile apps.

This means you can do advance flight planning on your iPad®, tablet or other smart device — in the comfort of your home or office — and then wirelessly load the data into your avionics once you get to the airport. You can also update databases by simply collecting all that information on your mobile device — and use it to transfer the data to your avionics when you get to the airport the next day.

Flight Stream 510

Assemble all flight information on your mobile device in advance, then wirelessly sync with the cockpit once you get to the airport.

SafeTaxi®

A highly detailed, geo-referenced airport map displays the aircraft's position in relation to confusing intersections and complex taxiways, with an overlaid map of hold short lines.

TerminalTraffic™

Syncs with SafeTaxi maps to display all ADS-B-equipped aircraft and ground vehicles for increased situational awareness.

SurfaceWatch (Optional)

Clear visual and aural cues direct the pilot to the correct runway on takeoff and approach. Real-time direction overlaid on runway maps measures distances and marks potential terrain hazards.



M600 G3000 SHOWN



TOUCHSCREEN CONTROLLERS

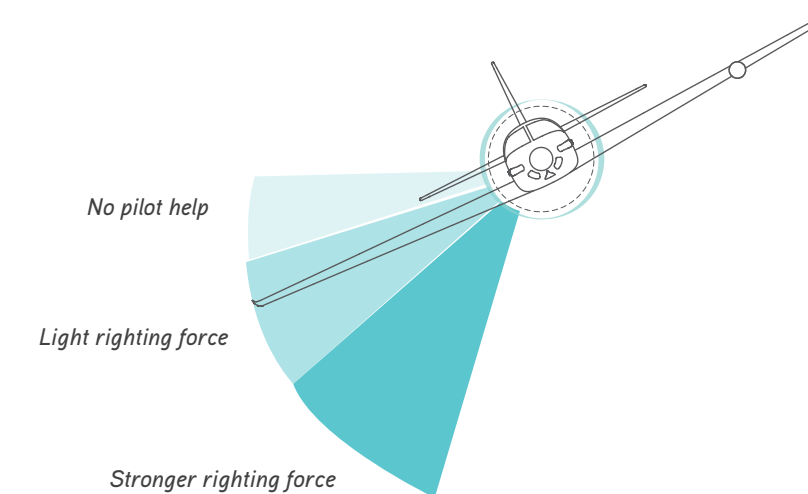
Dual touchscreen controllers provide the latest in modern input for a fully integrated avionics suite. Intuitive and easy to use, the shallow menu structure keeps essential information readily accessible, while providing advanced data entry for communication, navigation, and surveillance. Knobs at the bottom of the screens provide familiar and quick entry of flight management information. Providing the most contemporary and intuitive information, Piper is at the forefront of advanced data entry and intelligent flight management.

GFC 700 AUTOPILOT WITH ENHANCED AFCS

The fully integrated flight control system provides exceptional flight automation with a dual AHRS-based system. The system offers top safety features and incomparable performance, seamlessly integrating a flight director, autopilot, automatic trim and yaw damper into the G3000 suite. It also includes Electronic Stability Protection (ESP), Level Mode, Underspeed Protection (USP), Emergency Descent Mode, and Coupled Go Around, elevating pilot and passenger safety to the highest standards.

Automatic Level Mode (Blue Button)

Level Mode will return the aircraft to a wings level attitude with zero vertical speed with the push of a button. It will automatically engage the flight director and autopilot functions to return the aircraft to straight and level flight.



HYPOXIA RECOGNITION SYSTEM WITH AUTOMATIC DESCENT MODE

The Hypoxia Recognition System detects pilot incapacitation as a result of hypoxia by monitoring pilot interaction with the PFD, MFD, and Autopilot Controller at cabin altitudes above 14,900 feet when the autopilot is engaged.

If no interaction is detected within a specified time period, after multiple prompts, this system will engage Automatic Descent Mode and bring the aircraft to a lower altitude in an effort to allow recovery from hypoxia.

The M600 can safely fly itself, without assistance, to lower altitudes in the unlikely case the pilot becomes unresponsive.

Experience the Freedom of Flight at www.piper.com



BY THE NUMBERS

FUEL COST

Calculations based on block fuel divided by time. Includes climb, cruise, and descent fuel.

M600: 46 gph
TBM 930: 62 gph

MAINTENANCE LABOR COST PER HOUR

Cost based on a labor rate of \$105 per man-hour.

Figures include routine scheduled and unscheduled maintenance for airframe and avionics:

M600: \$73.50 / flight hour
(Cost based on .70 man-hours per flight)
TBM 930: \$78.75 / flight hour
(Cost based on .73 man-hours per flight hour)

ENGINE RESTORATION

Figures are based on typical overhaul and hot section inspection costs.

M600: \$130.59 / flight hour
TBM 930: \$165.31 / flight hour

PROPELLER ALLOWANCE

Figures include both parts and labor required for overhaul, including the cost of any life limited parts.

M600: \$3.08 / flight hour
TBM 930: \$4.25 / flight hour

PARTS AIRFRAME/ENGINE/ AVIONICS

Figures include airframe, avionics, and minor engine consumable parts required for routine schedules and unscheduled maintenance.

M600: \$44.42 / flight hour
TBM 930: \$71.76 / flight hour

SOURCE: Conklin and deDecker v 18.2



Operators call it the best value in its class because it was designed for owners who want extra range and speed without the inflated cost. The new clean-sheet wing is at the heart of the changes to the Piper M600 providing slick aerodynamics that help you go farther, faster without leaving anything or anyone behind.

THE SINGLE-ENGINE PIPER M600 IS MORE OF WHAT YOU WANT IN COMFORT, PERFORMANCE AND VALUE



5-blade prop shown

DIMENSIONS

Wingspan: 43.16 ft | 13.2 m
Height: 11.3 ft | 3.4 m
Length: 29.7 ft | 9.1 m

Front View



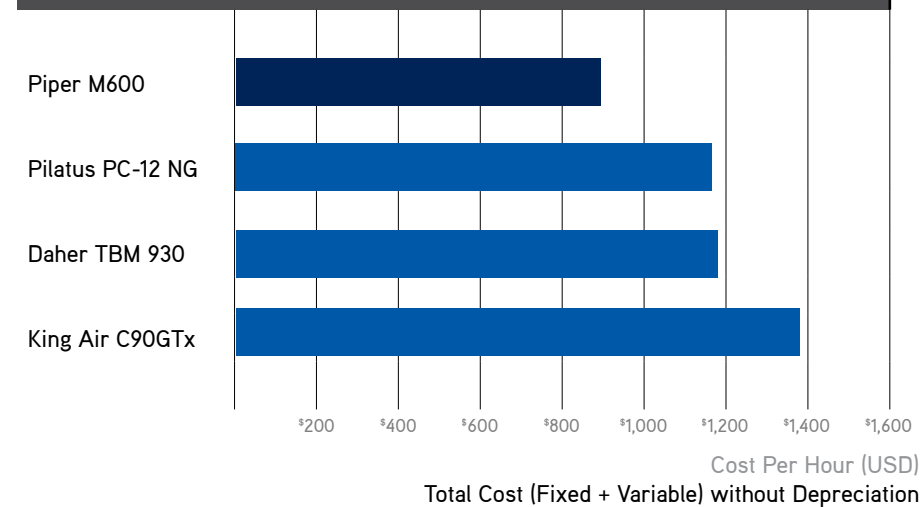
Side View



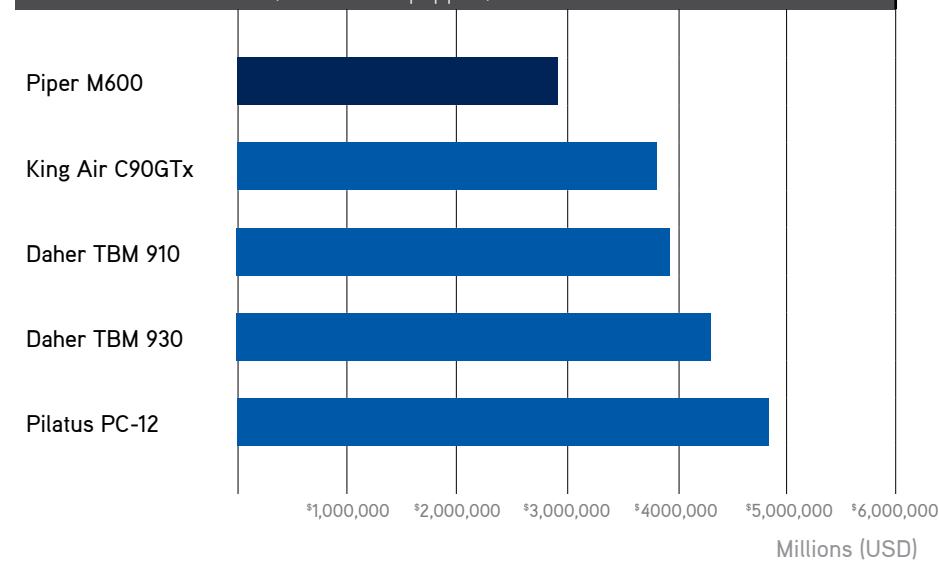
Ariel View



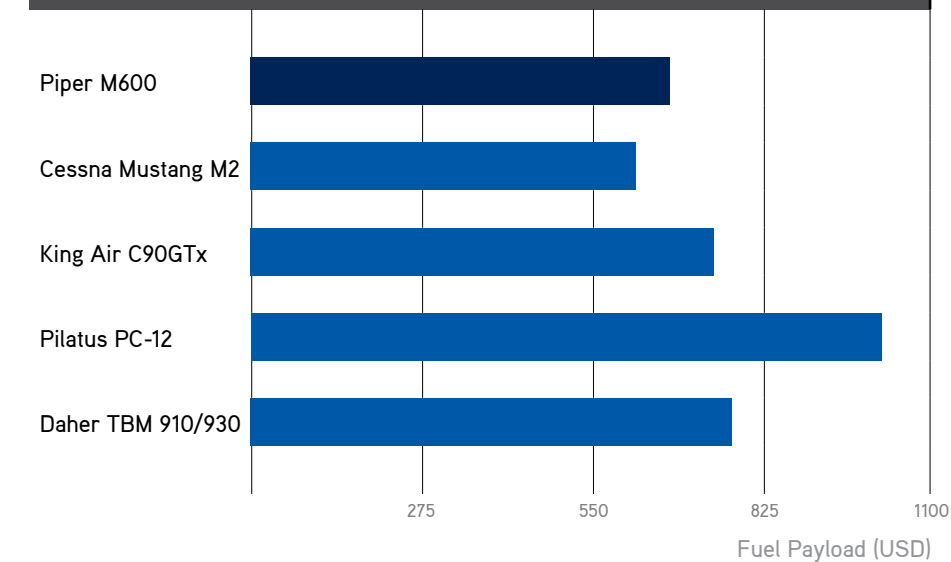
TOTAL COST PER HOUR



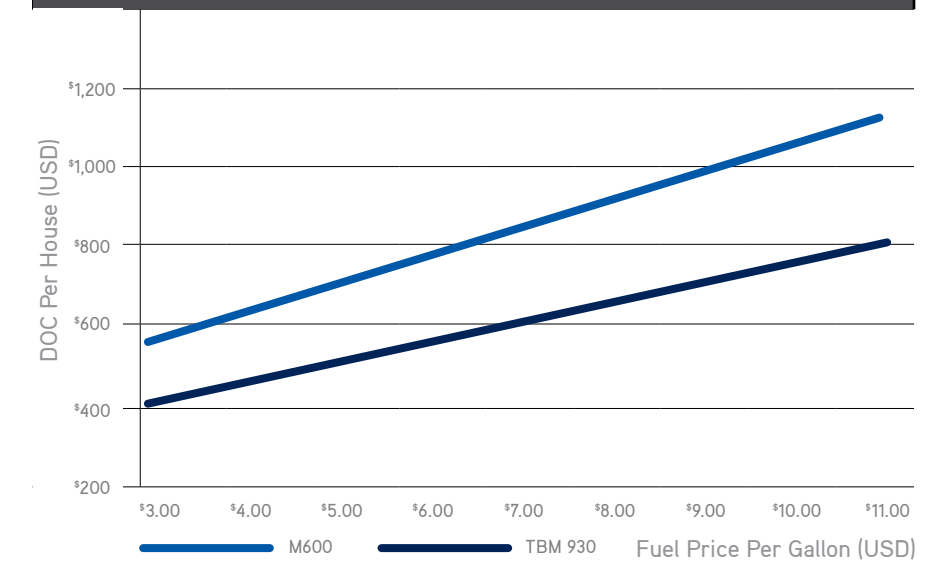
RETAIL LIST PRICE (Standard Equipped)



FULL FUEL PAYLOAD



DIRECT OPERATING COAST as a function of fuel cost



MEASURING UP



EXPRESSION PACKAGE (EXP)

Upgrade Your Experience

A unique experience will enable personal touches to the interior and exterior, making the aircraft tailored to your style. The EXP Package, exclusively available on the M600, includes a hands-on meeting with our design consultant in Vero Beach, Florida. During this process, select your interior color palette from available options as well as identify stitch patterns, headliner bezel accent color, custom paint schemes and personal brand design.



Performance Data	Standard	Metric
274 ktas Cruise with 45 Min. Reserve	1,209 nm	2,239 km
257 ktas Cruise with 45 Min. Reserve	1,385 nm	2,565 km
184 ktas Cruise with 45 Min. Reserve	1,658 nm	3,071 km
Max Operating Altitude (28,000 ft for RVSM)	30,000 ft	9,144 m
Cabin Altitude at 28,000 ft / 7,925 m	8,244 ft	2,513 m
Rate of Climb (Sea level, MTOW)	1,556 ft/min	474 m/min
Landing Distances Over 50 ft Obstacle	2,659 ft	810 m

Cabin Dimensions	Standard	Metric
Cabin Volume	165 cu ft	4.67 cu m
Cabin Length	12 ft 3 in	3.76 m
Cabin Width	4 ft 1 in	1.25 m
Cabin Height	3 ft 11 in	1.18 m
Door Dimensions	3 ft 10 in x 2.0 ft	1.16 m x 0.61 m
Internal Baggage	20.0 cu ft (100 lbs)	0.57 cu m (45 kg)

Weights	Standard	Metric
Max Ramp Weight	6,050 lbs	2,744 kg
Max Takeoff Weight	6,000 lbs	2,722 kg
Max Landing Weight	5,800 lbs	2,631 kg
Max Zero Fuel Weight	4,850 lbs	2,200 kg
Basic Empty Weight	3,650 lbs	1,656 kg
Fuel Capacity, Usable	260 gallons	984 liters
Payload With Full Fuel	658 lbs	298 kg

STANDARD FEATURES



AVIONICS

Garmin G3000 Avionics Suite with Autopilot Enhanced AFCS and Synthetic Vision:

- Dual 12" PFDs
- Single 12" MFD
- Dual GTC 575 Touchscreen Cockpit Management Units
- Dual GIA 64W NAV/COM/GPS
- GEA 71 Engine and Airframe Interface
- GFC 700 Autopilot and Enhanced AFCS
- Advanced Safety Features:
 - Automatic Level
 - Mode (Blue Button)
 - Electronic Stability Protection (ESP)
 - Underspeed Protection (USP)
 - Hypoxia Recognition System with Emergency Descent
 - GMC 711 AP Controller and Yaw Damper System
 - Mode Coupled Go Around

- Dual GMU 44 Magnetometer Units
- Dual GRS 79 AHRS Computers
- GMA 36B Digital Audio Panel
- Dual GDC 72 Air Data Computers
- GTX 335R Transponder (ADS-B "Out")
- GAE 43 Altitude Encoder
- GWX 75 Digital Weather Radar
- Garmin FliteCharts
- Garmin SafeTaxi
- Aspen EFD1000 Standby Flight Instrument
- Integrated Digital Cabin Pressurization

OTHER EQUIPMENT

- Flight Into Known Icing (FIKI)
- PiperAire Air Conditioning
- Hardwired Cockpit Bose A20 Headsets
- Six USB Charging Ports (two cockpit, four cabin)

INTERIOR

Premium Leather Interior:

- Firenze (Black and cream with carbon fiber accents), Mojave (Tan with light khaki), Sequoia (Carmel with black accents) or Geneva (grey with black accents)
- Electroluminescent Placards, Chrome, Antique Bronze and Wood Accents

M600 STANDARD INTERIOR



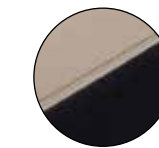
Mojave



Sequoia Black



Geneva



Firenze



Sequoia Vanilla

AVIONICS EQUIPMENT OPTIONS

- 150: SurfaceWatch \$5,778
- 215: 110 volt AC Power Outlet (Cabin and cockpit) \$6,502
- 235: Jeppesen ChartView \$4,707
(Includes one year subscription to Jeppesen PilotPak)
- 256: GSR 56 Iridium Transceiver \$18,071
- 269: GDL 69 SXM Satellite Radio / Weather \$12,661
- 330: L3 WX-500 Stormscope \$12,283
- 352: Becker RA3502 Remote ADF Receiver \$15,907
- 398: Hartzell 5-blade Composite Propeller \$38,250
- 450: TAWS-B \$13,526
(Terrain Awareness and Warning System)
- 563: BendixKing KN 63 Remote DME \$15,474
- 616: Flight Stream 510 with Connex \$2,426
- 855: GTS 855 Traffic Advisory System - TCAS / ACAS (Includes GTS 825) \$37,822
- 700: Non Standard Paint Color - Top \$7,386
- 710: Non Standard Paint Color - Bottom \$7,386
- 715: Non-Standard Approved Paint Scheme Quoted Upon Request
- 720: Carpet Runners \$384
- 730: GTX 345 Second Digital Transponder \$10,000
- 735: GTX 33D ES & GTX 345 Diversity Digital Transponder with Dual Antennas (Replaces standard GTX 335) \$15,402
- 910: Fire Detection System \$8,930
- AMSAFE: AmSafe Seatbelts - Pilot and Co-Pilot Positions \$6,439

PREMIER PACKAGE OPTIONS

AWARENESS PACKAGE

\$69,702
SurfaceWatch, Jeppesen Chartview, GTS 855 Traffic Advisory System TCAS/ACAS I, TAWS-B (Terrain Awareness and Warning System), GTX 345 Second Digital Transponder

WEATHER PACKAGE

\$24,217
GDL 69A SXM Satellite Weather, L3 WX-500 StormScope

INTERNATIONAL PACKAGE

\$47,915
GSR 56 Iridium Transceiver, BendixKing KN 63 Remote DME, GTX 33 D ES Diversity Digital Transponder with Dual Antennas & GTX 345 (Required for European Aircraft. Replaces standard GTX 335)

PREMIUM PACKAGE

\$52,814
110 Volt AC Power Outlet (Cabin and cockpit), Flight Stream 510, Hartzell 5-Blade Composite Prop, Carpet Runners, AmSafe Seatbelts - Pilot and Co-pilot positions

EXPRESSION PACKAGE

\$23,000
Customizable Interior Package

PROVISIONS

\$2,928,000*

Standard Equipped List Price

ENGINE

Pratt & Whitney Canada PT6A-42A
Horsepower: Flat Rated at 600 shp
TBO: 3,600 hours
Hot Section Inspection: 1,800 hours

PROPELLER

Hartzell 4-Blade Constant Speed | Reversible
Diameter: 82.5 in | 210 cm

WEIGHTS

Max Takeoff Weight: 6,000 lbs | 2,722 kg
Max Ramp Weight: 6,050 lbs | 2,744 kg
Standard Equipped Weight: 3,650 lbs | 1,656 kg
Standard Useful Load: 2,400 lbs | 1,089 kg

SPEEDS

Max Cruise Speed: 274 ktas | 507 km/h
Vmo Speed: 250 kcas | 463 km/h

FUEL CAPACITY, USABLE

260 US gal | 984 liters

RANGE WITH 45 MIN RESERVE

274 ktas Cruise 1,209 nm | 2,239 km
 257 ktas Cruise 1,385 nm | 2,565 km
 184 ktas Cruise 1,658 nm | 3,071 km

MAXIMUM APPROVED ALTITUDE

30,000 ft | 9,144 m
For RVSM Airspace: 28,000 ft | 8,534 m

TAKEOFF DISTANCE

Total Over 50 ft Obstacle: 2,635 ft | 803 m

LANDING DISTANCE

Total Over 50 ft Obstacle: 2,659 ft | 810 m

CABIN PRESSURIZATION

Maximum Cabin Differential: 5.6 psi

*Fly-Away-Factory (F.A.F.) Vero Beach, FL. Dealer delivery & local taxes extra.

WHICH MCLASS IS RIGHT FOR MY MISSION?

	M350	M500	M600
Number of Passengers	5+1	5+1	5+1
Engine Type	Piston	Turbo Prop	Turbo Prop
Engine Model	Lycoming TIO-540-AE2A	Pratt & Whitney Canada PT6A-42A	Pratt & Whitney Canada PT6A-42A
Horsepower	350 hp	500 shp	600 shp
Avionics Suite	G1000 NXi	G1000 NXi	G3000
Pressurization	Yes	Yes	Yes
FIKI Certified	Yes (Optional equipment)	Yes	Yes
Max Cruise Speed	213 ktas	260 ktas	274 ktas
Max Range	1,343 nm	1,000 nm	1,658 nm
Useful Load	1,308 lbs	1,698 lbs	2,400 lbs
Landing Distance	1,968 ft	2,110 ft	2,659 ft
Price (Standard Equipped)	\$1,195,000	\$2,081,000	\$2,928,000

GLOBAL CUSTOMER SUPPORT

Piper Aircraft offers customers support that is available 24 hours a day, seven days a week to answer questions and manage any concerns. To help with in service product support, there is a network of more than 80 independently owned and operated approved Piper Service Centers, guaranteeing support and assistance all around the world. Additionally, our association with Aviall and its network of more than 40 customer service centers worldwide supplements dealer parts inventory to ensure materials are available when and where they are needed most. Piper is known for building quality aircraft, but we also excel at building relationships that last.

PIPER WARRANTY PROGRAM

As part of our commitment to our customers, Piper offers excellent warranties on all new M600 aircraft. We offer a five-year/1500 hour warranty on airframe and systems. Garmin offers a five-year warranty (parts and labor) on their avionics. The Pratt & Whitney PT6A-42A powerplant comes with an industry-leading, seven-year/2500 hour warranty. Hartzell Propeller features a five-year/1,500 hour warranty on all Hartzell products installed by Piper.

PILOT TRAINING

The sale of each new Piper M600 comes with a one-week pilot initial, aircraft specific training course. For qualified pilots, training for the M600 is provided by our exclusive M600 training provider, Legacy Flight Training located at the Piper Factory in Vero Beach, FL. The training program combines a thorough academic ground school with aircraft specific training using a full motion flight training device and flight time in the customer's aircraft if needed.

From flight training to service centers, comprehensive customer care and global aircraft support remain our top priority. Our experienced team is standing by to make the M600 ownership experience exceptional and worry-free.

Piper Aircraft, Inc. reserves the right to make changes, including, but not limited to, changes in specifications, materials, equipment and/or prices at any time without prior notice. It is the responsibility of the pilot to conduct all operations in accordance with the approved Pilot's Operating Handbook, which is the only official source of data. ©2018 Piper Aircraft, Inc.

www.piper.com



RANGE MAPS



New York City to Dallas
1,208 nautical miles

New York City to Miami
950 nautical miles



Los Angeles to Seattle
831 nautical miles

Los Angeles to Houston
1,197 nautical miles



London to Madrid
679 nautical miles

London to Athens
1,312 nautical miles

To find a service center nearest you, connect with our Dealer Network:

PIPER CUSTOMER SUPPORT HOTLINE:

Domestic: 1-877-879-0275
 International: +001-772-299-2141