

# M500

2019 SPECIFICATION BOOK

**Piper**<sup>®</sup>  
FREEDOM OF FLIGHT

CABIN CLASS • SINGLE-ENGINE • PRESSURIZED TURBOPROP



M-CLASS: M350 | M500 | M600

## AVIONICS

### GARMIN G1000 NXi IS THE NEXT GENERATION OF GLASS COCKPITS

The G1000 NXi system takes the legacy G1000 glass flight deck platform to a higher level of performance and capability. It combines added processing power with brighter, smoother high resolution displays and enhanced optional features, including SurfaceWatch runway identification and alerting technology, Connex (Flight Stream 510) wireless cockpit connectivity, HSI mapping on your primary flight display, animated NEXRAD datalink weather and autopilot-coupled visual approaches down to pilot-selectable minimums.



M500 G1000 NXi SHOWN

### CONNECTED AIRCRAFT

The all-digital GMA 350C Bluetooth audio panel provides more functionality in the cockpit, giving pilots the option to wirelessly connect a smartphone or tablet to the audio panel to easily make phone calls or to stream audio entertainment. Additionally, the GMA 350C can be paired with the Garmin Pilot™ or ForeFlight Mobile apps.

Flight Stream 510 wireless gateway, your G1000 NXi 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.

G1000 NXi'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 (Optional)

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

### SurfaceWatch (Optional)

With G1000 NXi, Garmin has expanded its suite of Terminal Safety Solutions with the addition of SurfaceWatch. This feature is designed to further support safe on-airport operations by helping pilots avoid runway incursions or other miscues such as taking off or landing on the wrong runway or on a taxiway. SurfaceWatch can provide runway distance-remaining annunciations, beginning at 5,000' down through 500' remaining.



### HSI MAPPING

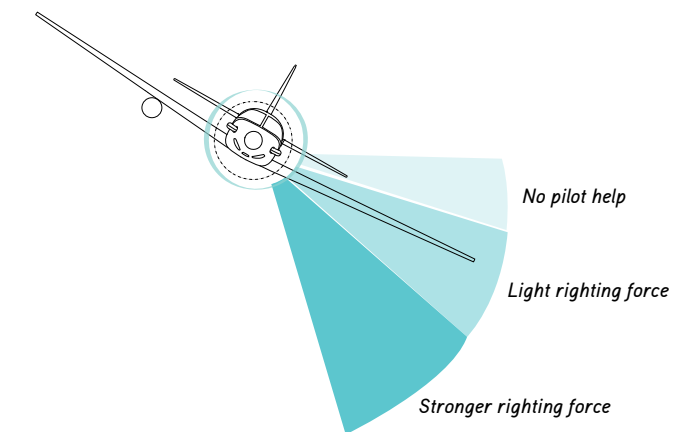
The HSI mapping feature on the G1000 NXi system enables an MFD-like perspective map view to be displayed right in your primary field of view (on the PFD) within the HSI portion of the display in front of you. The detailed graphical landscape helps focus your instrument scan — while allowing you to view mapping, terrain, obstacles, traffic, weather overlays, nav aids, airport diagrams and more. It's a great aid for pilot situational awareness, especially when workload increases for the pilot.

### NEXRAD DATALINK WEATHER

G1000 NXi supports a variety of satellite datalink options — displaying animated NEXRAD imagery, current airport conditions, forecasts, precipitation, lightning, winds and more. Both the U.S. sourced ADS-B network and SiriusXM® satellite weather services can be accessed from the system (SiriusXM subscription and optional hardware required). Plus, an optional Connex satellite link receiver can bring seamless on-demand worldwide weather information to the cockpit for international operations.

To locate your closest dealer and service center or to experience the Freedom of Flight, visit us at [www.piper.com](http://www.piper.com)

## ENHANCED AUTOPILOT FLIGHT CONTROL SYSTEM (AFCS)



### Electronic Stability Protection (ESP)

Any pilot who's ever been startled in a busy cockpit will appreciate the proactive stability augmentation of the ESP monitoring technology. This feature functions independently of the autopilot system — although it uses the same control servos — to gently nudge the controls toward stable flight whenever pitch, roll or high-speed deviations exceed the recommended limits when the aircraft is being hand-flown.

### Underspeed Protection (USP)

An intuitive flight director function that prevents the airplane from stalling when the autopilot is engaged. If in a stall condition, the system will lower the nose of the aircraft until above stall speed, and then climb to regain the preselected altitude.

### 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.

### Approach and Landing

With WAAS GPS-based guidance from the NXi system, the GFC 700 autopilot can fly coupled holding patterns. Plus, the NXi series goes even further by adding Visual Approach capability. With this, your system can generate a 3-degree autopilot-coupled vertical flight path down to pilot-selectable minimums to most runways. You can also select vectors or straight-in for the final approach intercept — giving you even more options for accessing the widest possible variety of airfields.

## BY THE NUMBERS

### FUEL COST

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

**M500:** 40 gph  
**TBM 910:** 62 gph

### MAINTENANCE LABOR COST PER HOUR

Cost based on a labor rate of \$95 per man-hour. Figures include routine scheduled and unscheduled maintenance for airframe and avionics:

**M500:** \$66.50 / flight hour  
(Cost based on .70 man-hours per flight)  
**TBM 930:** \$69.35 / flight hour  
(Cost based on .73 man-hours per flight hour)

### ENGINE RESTORATION

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

**M500:** \$158.00 / flight hour  
**TBM 910:** \$185.00 / flight hour

### PROPELLER ALLOWANCE

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

**M500:** \$3.20 / flight hour  
**TBM 910:** \$4.34 / flight hour

### PARTS AIRFRAME/ENGINE/ AVIONICS

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

**M500:** \$46.71 / flight hour  
**TBM 910:** \$73.59 / flight hour



HANDCRAFTED IN QUALITY WITH EMPHASIS ON SAFETY, THE M500 IS THE IDEAL AIRCRAFT FOR THE AMBITIOUS AVIATOR

## DIMENSIONS

Wingspan: 43 ft | 13.1 m  
Height: 11.3 ft | 3.4 m  
Length: 29.6 ft | 9.0 m



Front View



Side View

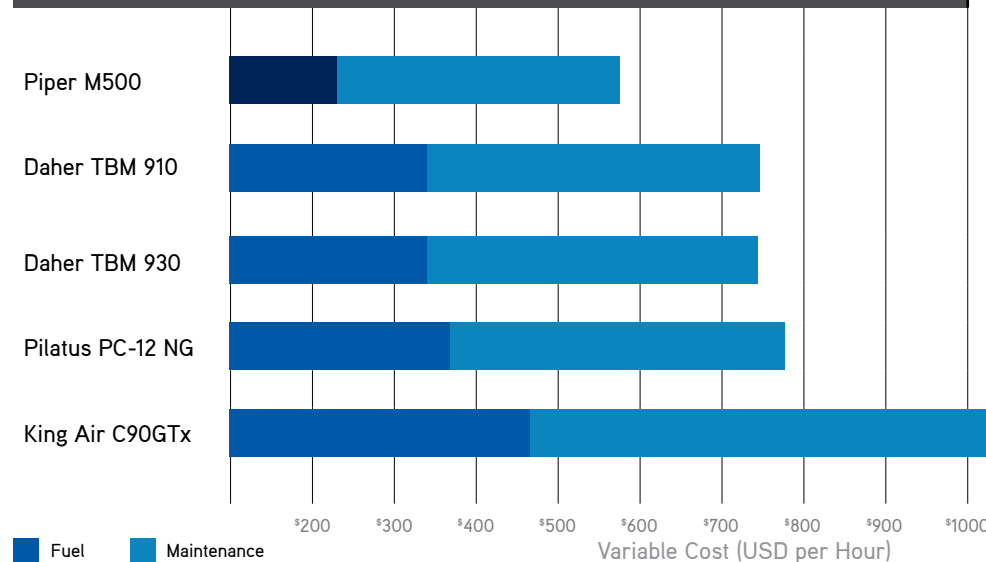


Ariel View

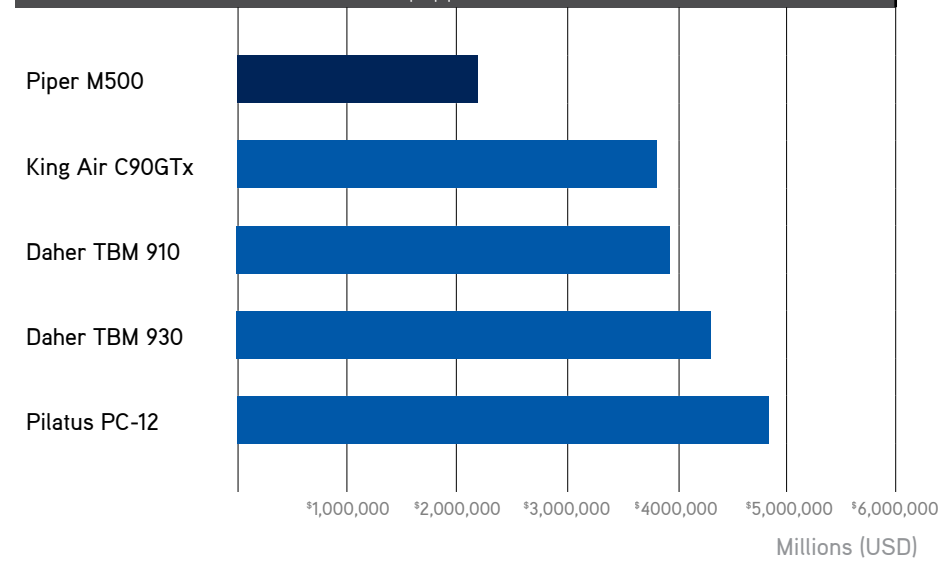


With a normal cruise fuel burn of just 35 gph, the M500 is the most fuel-efficient turbo prop available today – 40% more efficient to be exact –and more than \$1.5 million less acquisition cost than the closest competitor, the **M500 will get you there with simplicity and economy.**

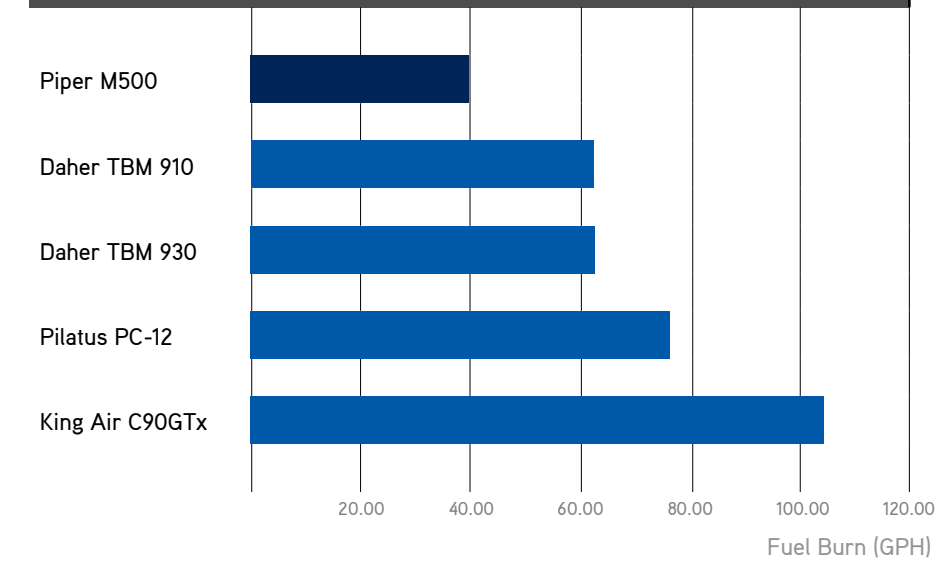
### TOTAL COST PER HOUR (Fuel Cost: \$4.73)



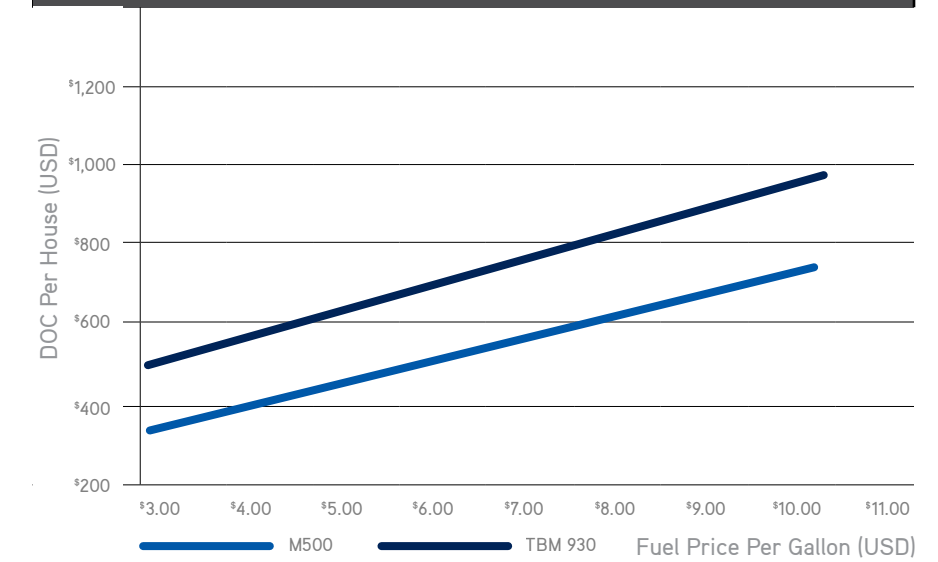
### RETAIL LIST PRICE (Standard Equipped)



### AVERAGE FUEL BURN (Per Hour)



### DIRECT OPERATING COAST as a function of fuel cost



SOURCE: Conklin and deDecker v 18.2

SOURCE: Conklin and deDecker v 18.2

All data is preliminary and subject to change.



## MEASURING UP



Performance Data	Standard	Metric
Max Cruise Speed	260 ktas	482 km/h
Max Range with 45 min Reserve	1,000 nm	1,852 km
Max Operating Altitude (28,000 ft for RVSM)	28,000 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)	1,600 ft/min	488 m / min
Landing Distances Over 50 ft Obstacle	2,110 ft	643 m

Cabin Dimensions	Standard	Metric
Cabin Volume	165 cu ft	4.67 cu m
Cabin Length	12 ft 3 in	3.73 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	5,134 lbs	2,329 kg
Max Takeoff Weight	5,092 lbs	2,310 kg
Max Landing Weight	4,850 lbs	2,200 kg
Max Zero Fuel Weight	4,850 lbs	2,200 kg
Basic Empty Weight	3,436 lbs	1,559 kg
Fuel Capacity, Usable	170 gallons	644 liters
Payload With Full Fuel	559 lbs	254 kg

All data is preliminary and subject to change.



## STANDARD FEATURES

### AVIONICS

Garmin G1000 NXi next generation integrated flight deck with Autopilot, and Enhanced AFCS: (Autopilot Flight Control System)

Dual PFDs  
 Single MFD  
 Dual GIA 64W NAV/COM/GPS  
 GFC 700 Autopilot with Enhanced AFCS  
 Advanced Safety Features  
 Level Mode (Blue Button)  
 Electronic Stability Protection (ESP)  
 Underspeed Protection (USP)  
 Coupled Go Around  
 GMC 710 AP Controller and Yaw Damper System  
 Dual GRS 79 AHRS Computers  
 GCU 476 Keypad  
 Garmin FlightCharts  
 Garmin SafeTaxi  
 GMA 350C Digital Audio Panel  
 Dual GDC 72 Air Data Computers  
 GTX 335R Transponder (ADS-B "Out")  
 GWX 68 Weather Radar  
 Aspen EFD1000 Standby Flight instruments  
 Integrated Digital Cabin Pressurization

### OTHER EQUIPMENT

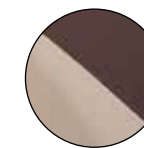
Flight Into Known Icing (FIKI)  
 PiperAire Air Conditioning  
 Hardwired Cockpit Bose A20 Headsets  
 USB Charging Ports (One cockpit, two cabin)

### INTERIOR

#### Premium Leather Interior:

Wellington (Tan), Inverness (Lt. Grey) or Inverness (Dk. Grey)  
 Electroluminescent Placards, Chrome and Wood Accents

### M500 STANDARD INTERIOR



Wellington



Inverness (Lt. Grey)



Inverness (Dk. Grey)

## AVIONICS EQUIPMENT OPTIONS

SurfaceWatch	\$5,951
110 volt AC Power Outlet (Cabin and cockpit)	\$6,697
Jeppesen ChartView	\$4,581
(Includes one year subscription to Jeppesen PilotPak)	
GSR 56 Iridium Transceiver	\$18,614
GDL 69 SXM Satellite Radio / Weather	\$12,650
L3 WX-500 Stormscope	\$12,650
SVT - Garmin Synthetic Vision	\$20,285
Becker ADF 3500	\$16,384
United Kingdom Lighting Package	\$1,560
Hartzell 5-blade Composite Propeller	\$36,771
TAWS-B	\$13,932
(Terrain Awareness and Warning System)	
BendixKing KN 63 Remote DME	\$12,159
Flight Stream 510 with Connex	\$2,499
GTX 345 Second Digital Transponder	\$10,300
(ADS-B In and Out)	
GTX 33D ES Diversity Digital Transponder and GTX 345	
(ADS-B In and Out) with Dual Antennas	
(Relaces Standard GTX335)	
GTS 825 Traffic Advisory System	\$15,864
(ADS-B "In" Compliant)	
GTS 825 Traffic Advisory System	\$38,230
(ADS-B "In" Compliant)	
Non Standard Paint Color - Top	\$7,607
Non Standard Paint Color - Bottom	\$7,607
Non-Standard Approved Paint Scheme	
Quoted Upon Request	
Carpet Runners	\$396
AMSAFE: AmSafe Seatbelts - Pilot and Co-Pilot Positions	
	\$6,632

## PREMIER PACKAGE OPTIONS

### AWARENESS PACKAGE

\$80,557  
 SurfaceWatch, Jeppesen Chartview, Garmin Synthetic Vision, TAWS-B (Terrain Awareness and Warning System), GTS 825 Traffic Advisory System

### WEATHER PACKAGE

\$24,564  
 GDL 69 SXM Satellite Weather, L3 WX-500 Stormscope

### INTERNATIONAL PACKAGE

\$45,586  
 GSR 56 Iridium Transceiver, BendixKing KN 63 Remote DME, GTX 33 D & GTX 345 Diversity Digital Transponder with Dual Antennas (Required for European Aircraft. Replaces standard GTX 335R)

### PREMIUM PACKAGE

\$51,654  
 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

# PROVISIONS

\$2,081,000\*

Standard Equipped List Price

## ENGINE

Pratt & Whitney Canada PT6A-42A  
**Horsepower:** Flat Rated at 500 shp  
**TBO:** 3,600 hours  
**Hot Section Inspection:** 1,800 hours

## PROPELLER

Hartzell 4-Blade Constant Speed | Reversible  
**Diameter:** 82.5 in | 208 cm

## WEIGHTS

**Max Takeoff Weight:** 5,092 lbs | 2,310 kg  
**Max Ramp Weight:** 5,134 lbs | 2,329 kg  
**Standard Equipped Weight:** 3,436 lbs | 1,559 kg  
**Standard Useful Load:** 1,698 lbs | 770 kg

## SPEEDS

**Max Cruise Speed:** 260 ktas | 482 km/h

## FUEL CAPACITY, USABLE

170 US gal | 644 liters

## RANGE WITH 45 MIN RESERVE

1,000 nm | 1,852 km

## MAXIMUM APPROVED ALTITUDE

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

## TAKEOFF DISTANCE

**Ground Roll:** 1,650 ft | 503 m  
**Total Over 50 ft Obstacle:** 2,438 ft | 743 m

## LANDING DISTANCE

**Ground Roll:** 1,020 ft | 311 m  
**Total Over 50 ft Obstacle:** 2,110 ft | 643 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

The purchase of a Piper aircraft comes standard with peace of mind. This reassurance begins with knowing that the Piper Aircraft Customer Support Desk is available 24 hours a day, seven days a week to answer questions and help diagnose any issues. To help within 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. What's more, to supplement dealer parts inventory, our association with Aviall and its network of 40 customer service centers worldwide ensures that parts are on hand when and where they are needed. We are not just in the business of building aircraft, but also building relationships that last – far beyond the delivery of a new plane.

## PIPER FLY-AWAY WARRANTY PROGRAM

As part of our commitment to our customers, Piper offers outstanding warranties on all new M500 aircraft. The combination of advanced technology, performance, and quality has made the Piper M500 the most sought after aircraft in its class. We offer a comprehensive three-year warranty on airframe and systems. Garmin offers a three-year warranty (parts

and labor) on their avionics. The Pratt & Whitney PT6A-42A powerplant comes with an industry-leading seven-year/2,500 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 M500 comes with a one-week pilot initial, aircraft specific training course. For qualified pilots, training for the M500 is provided by Legacy Flight Training or SimCom. The training program combines a thorough academic ground school with aircraft specific training using a PA46-500 flight training device.

From flight training to service centers, comprehensive customer care and product support are our primary priorities. With an experienced team standing by to support both owner and airplane, Piper M500 ownership comes standard with peace of mind.

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. ©2019 Piper Aircraft, Inc.

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## RANGE MAPS



New York to Chicago  
643 nautical miles

New York to Jacksonville  
720 nautical miles



Denver to Los Angeles  
890 nautical miles

Denver to Seattle  
749 nautical miles



London to Madrid  
679 nautical miles

London to Naples  
873 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