

## Performance and Specifications

### ENGINE

Manufacturer	Lycoming
Model	O-360-A4M
Horsepower	180 hp
Number of Cylinders	4

### PROPELLER

Manufacturer	Sensenich
Number of Blades	2
Type	Fixed Pitch

### WEIGHTS

Maximum Take-off Weight	2,550 lbs/1,157 kg
Maximum Ramp Weight	2,558 lbs/1,160 kg
Standard Equipped Weight	1,677 lbs/760 kg
Standard Useful Load (a and b)	881 lbs/400 kg

a. Standard useful load is maximum ramp weight minus standard equipped weight.

b. Useful load is indicated for a standard equipped aircraft.

### MAXIMUM SPEED

Gross Weight, Sea Level, Best Power Mixture	133 kts/246 km/h
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### CRUISING SPEED

75% Power, 7,900 ft Best Power Mixture	128 kts/237 km/h
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### CRUISING RANGE

Cruising range includes 45 minute fuel reserve at long range cruise power plus allowance for fuel used during taxi, take-off, climb at maximum climb power and cruise at stated mixture and descent

75% @ sea level	444 nm/822 km
65% @ sea level	487 nm/902 km
55% @ sea level	522 nm/967 km

### STALL SPEED

Flaps Full Down 40°	45 kias/83 km/h 52 kcas/96 km/h
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# A R C H E R I I I

2005 PRODUCT INFORMATION

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### DIMENSIONS

Wing Span	35.5 ft/10.8 m
Length	24.0 ft/7.32 m
Height	7.3 ft/2.2 m
Cabin Length	98 in/248.9 cm
(Instrument Panel to Rear Bulkhead)	
Cabin Width	41.75 in/106.0 cm
Cabin Height	45.0 in/114.3 cm
Headroom (Seat to Ceiling)	
Front Seat	38 in/96.5 cm
Rear Seat	34.5 in/87.6 cm

### WING AREA

Wing Area	171.8 ft <sup>2</sup> /16 m <sup>2</sup>
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### FUEL AND OIL CAPACITY

Usable Fuel	48 gal/182 liters
Oil Capacity	8 qts/7.57 liters

### SERVICE CEILING

(100fpm)	14,100 ft/4,298 m
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### BAGGAGE

Volume	26 ft <sup>3</sup> /0.74 m <sup>3</sup>
Capacity	200 lbs/91 kg

### TAKE-OFF DISTANCE

Ground Roll	1,135 ft/346 m
Total over 50 ft Obstacle	1,608 ft/490 m
Flaps 25°, 2,550 lbs	

### LANDING DISTANCE

Ground Roll	920 ft/280 m
Total over 50 ft Obstacle	1,400 ft/427 m

# Prices and Equipment

## 2005 PRODUCT INFORMATION

### STANDARD EQUIPPED LIST PRICE

Please contact your dealer for applicable delivery timing and standard aircraft pricing.

*The New Piper Aircraft, Inc. reserves the right to make changes in specifications, materials, equipment, or prices at any time without prior notice or to discontinue models as required.*

### POWERPLANT AND PROPELLER

Engine - Lycoming 180 HP at 2700 RPM,  
 Direct Drive, 4 Cylinder, Dual Ignition with Radio Shielding  
 Propeller - Sensenich, 2 Blade, Fixed Pitch  
 Dynafocal Engine Mounts  
 Axisymmetric Engine Cowling  
 Aft-Exiting Exhaust System  
 Polished Spinner  
 Keyless Ignition  
 Engine Hour Recorder  
 Geared Starter, 24 Volt  
 Air Filter, Dry Type  
 Oil Filter, Full Flow  
 Oil Cooler  
 Dual Mufflers, Cross-over Exhaust System  
 Carburetor Heat  
 Oil Quick Drain  
 Engine Driven Vacuum Pump  
 Engine Hour Recorder

### FLIGHT INSTRUMENTS AND INDICATORS

All Metal Instrument Panel  
 Piper TrueSpeed Indicator  
 Magnetic Compass, Illuminated  
 Sensitive Altimeter (In. and Mb.)  
 Artificial Horizon Gyro  
 Directional Gyro  
 Turn Coordinator  
 Vertical Speed Indicator  
 Heated Pitot Head  
 Alternate Instrument Static Source and Control  
 Standby Vacuum Pump, Electric  
 Lighted Side Mounted O.A.T. Gauge  
 Digital Ammeter  
 Electric Clock  
 Tachometer, Recording  
 Vacuum Gauge (2 In.)  
 Auxiliary Vacuum Switch and Indicator  
 Meyercord White Placard Lettering  
 Color Coordinated Throttle Quadrant  
 Annunciator Panel with Push-to-Test and Day/Night Dimming
 

- Alternator Inoperative
- Oil Pressure Low
- Gyro Vacuum Inoperative
- Low Bus Voltage
- Pitot Heat Off/Inoperative
- Starter Engaged

Dual Fuel Quantity Gauges  
 Three Way Transducer Gauge
 

- Oil Temperature
- Oil Pressure
- Fuel Pressure

EGT Gauge (3 In.)  
 Stabilator Trim Position Indicator  
 Rudder Trim Position Indicator  
 ELT Switch and Indicator

### COCKPIT, FLIGHT AND GROUND CONTROLS

Dual Primary Flight Controls  
 Dual Hytel Control Wheels  
 Galvanized Control Cables  
 Engine Controls - Pedestal Mounted with Friction Lock
 

- Throttle
- Mixture
- Carburetor Heat

 Flight Trim Controls
 

- Stabilator with Indicator
- Rudder with Indicator

 Stall Warning Horn  
 Steerable Nosewheel, Cushioned  
 Brakes
 

- Pilot's Toe Brakes
- Co-Pilot's Toe Brakes
- Parking Brake

 Fixed Landing Gear with Strut and Wheel Fairings  
 Nose Wheel, 6.00 X 6 with Michelin Tire and Tube, 4 Ply Rating  
 Main Wheels, 6.00 X 6 with Michelin Tires and Tubes, 4 Ply Rating  
 Wing Flaps Control, Manual, Four Position (0, 10, 25 & 40 Degrees)  
 Fuel Control Selector - off/right/left, guarded OFF position  
 Overhead Switch Panel containing:
 

- Bar Guarded Push to Start
- Bar Guarded Electric Primer
- Battery Master
- Alternator
- Electric Fuel Pump
- Landing Lights
- Navigation Lights
- Strobe Lights
- Bar Guarded Magneto Switches, Two
- Dimmer Controls Overhead Lights

### ELECTRICAL SYSTEM

24 Volt, 10 Amp Hour Battery  
 28 Volt, 70 Amp Alternator  
 External Power Receptacle  
 Master Switch Relay  
 Alternator Control Unit  
 Resettable-Type Circuit Breakers  
 Back Lighted Rocker Switches, conveniently grouped on pilot's instrument panel and overhead panel  
 Static Discharge Wicks

## FUEL SYSTEM

Two Fuel Tanks with 50 Gallons Total Capacity,  
48 Gallons Useable  
Flush Fuel Caps, Lockable  
Engine Driven Fuel Pump  
Auxiliary Fuel Pump, Electric  
Engine Primer System, Electric  
Fuel Control Selector- off/left/right  
Fuel Strainer with Quick Drain  
Fuel Tank Quick Drains, Two  
Fuel Sampling Bottle

## LIGHTING SYSTEMS

External Lighting

- Landing/Recognition Lights - located in Wing Tips
- Wing Tip Strobe Lights
- Navigation Lights

Interior Lighting

- Instrument Panel Post Lighting
- Internally Lighted Switches
- Avionics/Panel/Switch Dimming
- Cabin Door/Chart Light
- Overhead Blue Dome and Chart Lights, Two
- Passenger Overhead Reading Lights,  
Individually Controlled, Two

## CABIN COMFORT SYSTEM

Heater Muff provides heat to cabin area, regulated  
by control on panel through four floor outlets  
Heat Regulating Lever- Front/Rear, Two  
Windshield Defrosters and Control  
Cabin Air Exhaust Vent  
Cabin Fresh Air Vents, four, floor mounted,  
individually controlled  
Overhead Cabin Air Distribution Vents, four, single  
control with individual deflectors with Fan System

## EXTERNAL FEATURES

Polyurethane Exterior Finish  
12" Registration Numbers  
Full Chemical Corrosion Protection  
Cabin and Baggage Doors  
Stainless Steel Cowl Fasteners  
Tie-Down Rings, Three  
Jack Pads  
Cabin and Baggage Door Locks and Keys with Piper Logo  
Stowable Towbar  
Entrance Step

## COCKPIT AND CABIN APPOINTMENTS

Four Position Intercom System  
Dual Overhead Cockpit Speakers  
Choice of Three Interior Colors, which include:  
fabric and vinyl seats, side panels, nylon carpeting and  
off-white headliner with color coordinated sidepanels  
Improved comfort pilot/co-pilot vertically adjustable seats with  
inflatable lumbar support, magazine storage pockets on back  
of each seat with headrests fore, aft and tilting adjustment

Safety Belts with Inertial Reel Shoulder Harness  
Armrest - Crew Area, Two  
Crew Assist Hand Grips  
Sunvisors, Two  
Map Pocket  
Pilot & Co-Pilot's Storm Window  
Scuff Pads, Pilot and Copilot  
Door Closing Strap  
Tinted Windshield and Windows  
Improved Comfort, Fabric and Vinyl Rear Passenger Seats, Two,  
Safety Belts with Inertial Reel Shoulder Harness  
Armrest - Passenger Area, Two  
Super Quietized Soundproofing  
Carpeted Luggage Compartment with Two Security Straps  
Halon Fire Extinguisher

## PRODUCT SUPPORT/DOCUMENTS

Manufacturers Full Two Year Limited Warranty  
Pilot's Operating Handbook  
Aircraft Log Book  
Engine Log Book  
Certificate of Airworthiness  
Inspection Forms  
Piper Key Chain  
Piper Flight Bag

## STANDARD GARMIN/S-TEC AVIONICS PACKAGE

COMM/NAV/GS/GPS Multifunction Display	GNS 430
VOR/LOC/GS/GPS Indicator	GI-106A
Transponder with Traffic Information Sytem	GTX-330
Audio Panel with Marker Beacon and Intercom	GMA 340
Altitude Encoder	
Avionics Master Switch	Piper
Microphone	Telex 100T
Speakers Mic/Phone Jacks	Piper
Headset	Telex Airman 760
Pilot and Co-Pilot Mic Buttons	Piper

## Optional Equipment

<u>OPTIONAL EQUIPMENT</u>	<u>LIST PRICE</u>		
598 Premium Select Avidyne Avionics Package Includes: Avidyne Entegra Flat Panel Display System E-Max Engine Indicating System, Avidyne Integrated Weather Data Link, Carburetor Ice Detector, All Leather Seats	\$55,100	525 RCR-650D ADF with IND-650A Indicator (Not Available if Option AVI is Ordered in Combination with Option 575)	\$ 6,235
AVI Avidyne Flat Panel Display System Includes: Primary Flight Display, Multi-Function Display, S-Tec System 55X, Autopilot with Automatic Electric Trim, Altitude Preselect and Stand-by Flight Instrumentation Adds Second GNS-430	\$42,750	550 2nd GNS-430 COMM/NAV/GS/GPS Multifunction Display with GI-106A Indicator (Not Available with Options 598 or AVI)	\$13,365
255 E-Max Engine Indicating System Includes: Lean Assist and Fuel Totalizer (Requires Option AVI)	\$ 5,815	575 DME-450	\$ 9,135
250 Avidyne Integrated Weather Data Link (Requires Option AVI)	\$ 4,365	594 S-TEC System 55X Dual Axis Autopilot with Automatic Electric Trim, DG with Heading Bug and Turn Coordinator (Not Available with Options 598 or AVI)	\$23,740
225 GI-106A VOR/LOC/GS/GPS Indicator (Requires Option AVI)	\$ 2,480	715 Optional paint Scheme	\$ 1,410
201 Air Conditioning with HFC-134a Refrigerant	\$11,315	717 Outline Trim Stripe "C"	\$ 1,640
222 Carburetor Ice Detector	\$ 1,390	710 Bottom Metallic Base Color	\$ 525
360 Low Noise Exhaust Resonator (Muffler)	\$ 805	769 All Leather Seats	\$ 3,685
510 ST-361 ADI and ST-180 HSI Exchange for Std. Directional Gyro, Attitude Gyro, and #1 Indicator (Requires Options 550 and 594) (Not Available with Option AVI)	\$18,340	355 Tail Strobe Light, Low Profile	\$ 940
511 HSI with Slaved Compass System Exchange for Std DG and #1 Indicator. (Not Available with Option 594, 598, or AVI)	\$12,155	277 Wheel Fairings Removal (Trainer Option)	(\$ 2,940)
330 WX-500 Stormscope with GNS or AVI Interface	\$ 9,505	363 United Kingdom Lighting Package (UK Aircraft Only)	\$ 825
332 SKY-497 Skywatch with GNS or AVI Interface (GTX-330 Traffic Information System Disabled with Option 332)	\$28,485		
515 ST-360 Altitude Select/Alerter (Only Available With Option 594)	\$ 4,580		

### INTERNATIONAL OPTIONS

260 ELT Deletion (Xmtr. Unit Only)	(\$ 75)
702 Second Altimeter (Not Available with Option AVI)	\$ 1,045

### INTERIOR STYLING

All Designer Interior utilizes an off-white headliner with matching side panels, line and color coordinated nylon carpeting. The Interiors are offered in a choice of the following colors: *Dark Khaki, Light Quartz or Dark Quartz.*

### EXTERIOR STYLING

Standard 2005 Exterior Styling offers a choice of single or two-tone non-metallic base colors in DuPont Imron with a choice of metallic or non-metallic colors for the trim stripes.



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