



## 2011 NEW WACO AIRCRAFT PRODUCTION YMF-5D

*The WACO YMF Biplane is **Artwork in Motion.**  
Offering an Incredible Golden Era Flying Experience  
in the Comfort of a **NEW** Certified Aircraft.*

- ◆ **FAA Certified Production Aircraft** manufactured New by the **WACO Classic Aircraft Corp.** of Battle Creek, Michigan
- ◆ **ONLY FAA APPROVED MANUFACTURER IN THE WORLD** of 1930's sport biplanes
- ◆ **EASA CERTIFIED**
- ◆ **Over 125** WACO YMFs built and delivered to wonderful customers worldwide.
- ◆ Certified to the original Type Certificate issued in 1935, the current version includes over 300 reliability and safety improvements.

***Own and Fly the Dream...*** The WACO YMF-5D Biplane

WACO Classic Aircraft Corporation  
15955 South Airport Road, Battle Creek MI, 49015  
(269) 565-1000

[flywaco@wacoclassic.com](mailto:flywaco@wacoclassic.com)

Correct as of February 22, 2011

# WACO YMF-5D Biplane

## *Artwork in Motion*

Offering an Incredible Golden Era Flying Experience  
in the Comfort of a NEW Aircraft

### AIRCRAFT SPECIFICATIONS

**3-place** Open Cockpit Land or Sea Biplane

#### FEATURES

Purchase Includes Factory Pilot Checkout  
Deluxe Interior  
New Aircraft , New Tooling, Modern Safety Features  
IFR, Night and Aerobatic Approved  
Approved for Commercial Ride Operations  
28 volt Electrical System with Modern Avionics Installations

#### POWERPLANT

Engine

Jacobs R755A2, A2M, or B2 Radial Engine  
Optional - 275 HP @ 2200 RPM 1400 hr. TBO (1400 hr TBO now standard)  
Standard - 300 HP @ 2200 RPM, 1400 hr. TBO (1400 hr TBO now standard)

Propellers

Fixed-Pitch (Standard), MT wood / composite, 92 in. dia  
Fixed-Pitch Sensenich wood, 92 in dia.  
Constant Speed (Optional), Hamilton-Standard 2B20-15, 93 in. dia,

#### DIMENSIONS

Wing Span, upper	30 ft 0 in (9.14 m)
Wing Span, lower	26 ft 10 in (8.18 m)
Length, overall	23 ft 10 in (7.26 m)
Height, overall	8 ft 6 in (2.59 m)

#### WEIGHTS & LOADINGS

Basic Empty Weight	1985 lb (900 kg) 2100 lb typically equipped
Baggage Capacity	100 lb (45 kg)
Gross Weight	2950 lb (1338 kg)
Useful Load	965 lb (438 kg) max

#### PERFORMANCE

Never-exceed speed	214 mph (186 kt)
Cruise speed	122 mph (105 kt)
Stall Speed, power off	59 mph (51 kt)
Fuel	Standard - 48 US gal (182 litres) Optional Long Range Tanks - 72 US gal (273 litres)
Fuel Consumption	15 US gal/hr
G limits	+5.2 / -2.1 @ 2950 lb.

***Own and Fly the Dream...The WACO YMF-5C Biplane***

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## **“The WACO CLASSIC YMF biplane, an aeronautic thoroughbred.”**

Originally produced in 1934/1935 by the WACO Aircraft Company of Troy, Ohio, the WACO YMF was unquestionably regarded as the finest open cockpit sport aircraft. When production was re-established in 1986 with the **WACO YMF Classic**, many updated features were incorporated. Based on constructive input from valued customers all over the world, the **WACO YMF Super** was developed. Today's production aircraft offers a complete array of updated features making it the finest sport biplane anywhere.

### **Model: WACO YMF Classic (1985 – 1991)**

**Serial Numbers: F5001 through F5039 (No longer in production)**

#### **IMPROVEMENTS OVER THE ORIGINAL 1935 YMF**

- 4130 Steel Tubing in-place of Mild Steel
- Internal Corrosion Proofing of Steel Tubing
- Heater Front & Rear Available
- Hydraulic Toe Brakes
- Steerable Tail Wheel (Raised 3 in.)
- Instrument Panel Accepting of IFR Installations
- Deluxe Front & Back Interiors Available
- 24 Volt Electric System with Starter
- Shoulder Harnesses for Pilot & Passengers
- Stainless Steel Firewall
- Stainless Steel Exhaust System
- Fire Resistant Fuel Lines Forward of Firewall
- Steel Tabs Welded to Fuselage Frame to Mount Bulkheads

#### **SIGNIFICANT CHANGES BY SERIAL NUMBER FOR THE WACO YMF Classic**

##### **F5010 and Up:**

- Engine Horsepower Raised from 245 HP to 275 HP
- Rear Cockpit Seat Moved Aft 3 in.
- Gross Weight Increase From 2650 to 2770 lb.

##### **F5015 and Up:**

- Raised Front Seat
- Raised Front Windshield
- Insulated the Firewall
- Increased Ventilation to Front Cockpit

##### **F5021 and Up:**

- Lowered the Main Gear 3 in.

##### **F5026 and Up:**

- Moved the Rudder Pedals Forward 2 in.

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## **Model: WACO YMF Super (1992 – 2009)**

**Serial Numbers: F5C040 and Up (Current Production Model)**

### **SIGNIFICANT CHANGES OF THE WACO YMF Super OVER THE WACO YMF Classic**

- Increased Gross Weight to 2950 lb.
- Increased Fuselage Length 6 in.
- Increased Cockpit Dimensions
  - Front Cockpit Width +2.5 in.      Front Cockpit Length +2.0 in.
  - Rear Cockpit Width +1.0 in.      Rear Cockpit Length +4.0 in.
- Increased Passenger Door Size
  - Door Width +4.0 in.      Door Height +2.0 in. Lower
- Increased Leg Room in Rear Cockpit 4 to 9 in. (Depending on Serial Number of Classic)
- Balanced Rudder and Elevator for Reduced Forces and Greater Authority
- Enlarged Front and Rear Windshields
- Improved Intercom System (1993 models and up)
- Improved Propeller for Increased Climb and Takeoff Performance
- Replaced Fabric with Aluminum Skin on Left Side of Forward Fuselage

### **WACO YMF Super IMPROVEMENTS F5C068 and Up**

- Replaced Fabric with Aluminum Skin on Right Side of Forward Fuselage
- Removable Engine Mount

### **WACO YMF Super IMPROVEMENTS F5C092 and Up**

- External hoses for extended range fuel tank upgraded to braided metal
- Wheel pant access covers added for improved inflation valve access
- New, hand carved wood stick grip
- New, fitted rear cockpit cover available
- WACO scalloped paint schemes available

### **WACO YMF-5D Super IMPROVEMENTS F5C121 and Up (2010 -)**

- More Horsepower – new optional Jacobs R755-A2 300 HP with a 1400 hour TBO
- JPI EDM 930-7 Engine instrumentation as standard.
- New Oil cooler design offering improved cooling
- New Oil Filtration system allowing for 50 hour oil change interval (up from 25)
- New MT Taper Tip Propeller (Sensenich Fixed and Hamilton-Standard 2B20 constant speed continues as option)
- Deluxe leather interior now standard
- Improved seals and other enhancements lower front cockpit temperatures in summer and improve heat system performance in winter.
- Front cockpit brakes now standard
- New lightweight wheel pants and wheel pant fairings
- New circuit breaker panel location
- Redesigned one piece instrument panel with vibration isolators
- Standard LED landing and identification lights, new beacon
- Simplified avionics packages featuring all Garmin Avionics
- Relocated ground start plug and redesigned electrical system saves 8 lbs.
- Redesigned landing gear pistons and seals
- New Trim system design (linkage system replaces older cable system)
- New fully adjustable rudder pedals (accommodates larger range of pilot sizes)
- Numerous serviceability enhancements

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