

# P92JS



## SPECIFICATION AND DESCRIPTION



QUALITY AIRCRAFT SINCE 1948

## TECNAM

# SPECIFICATION AND DESCRIPTION

## P92JS

This document applies only to the Tecnam P92JS and is published for the purpose of providing general information for the evaluation of design, powerplant, performance and equipment.



Pascale Museum at Tecnam Headquarter Capua

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# GENERAL DESCRIPTION

## General description

The P92-JS is a two-seater side by side, single strut braced, high wing aircraft. The aircraft's outstanding performance and flying qualities together with low operating costs, easy piloting and maintenance, make this aircraft an excellent choice for flying schools and training activities and also for many other missions such as touring, territory surveillance, patrol, etc.

The option to use AVGAS 100LL or unleaded MOGAS ASTM D4814-EN/228 SUPER make the P92 JS even more flexible and economical.

The P92-JS has been type certified in December 2001 in compliance with CS-VLA. The engine and propeller are certified to FAR 33.

## Construction

The Tecnam line employs a monocoque tail cone section with the forward fuselage using sheet aluminum over steel tubing. The wing is an all aluminum conventional structure with a single strut. The top and bottom engine cowls are quickly and easily removable making any maintenance easier to accomplish. A wide rear window together with large side windows complete the extraordinary visibility allowing 360° of vision in the cockpit. The all moving Stabilator is fitted with a trim tab controlled by buttons on the control column. The

excellent flying characteristic with neutral handling makes it extremely stable and easy to fly for people of any weight/height. The large flaps are deployed electrically and allow a stall speed lower than 41 KTS (76 km/h). The low stall speed and the general slow flying characteristics of the aircraft allows it to operate with ease on short runways.

## Interior

Seats are adjustable and increase in height as they are moved forward. The luggage area allowing for 44 pounds/20 kg of weight is located behind the seats with easy access in flight. All Tecnam aircraft have dual control sticks, throttles and rudder pedals. The trim tab and the flaps are electrically activated with a position indicator on the instrument panel. The fresh air vents are conveniently located in the doors. Heat and defrost are standard. The aircraft has dual conventional rudder pedals with a steerable nose wheel. The wide conventional instrument panel allows fitment of a broad range of IFR equipment, in addition to standard VFR training requirements. The interior is spacious, ergonomic and comfortable.

## Landing Gear

The main landing gear is spring steel that is robust enough for unimproved strips and require no

service. The trailing link nose gear uses a rubber shock absorber system that was designed for the rigours of the training environment.

The main landing gear wheels and brakes are conventional aircraft size (5.00x5). The brake control is located forward between seats. A parking brake is between the seats and is actuated by use of a single twist.

## Powerplant and propeller

The top and bottom engine cowls are quickly and easily removable making any maintenance procedure faster to accomplish. The top cowl has 2 large hinged openings for easy access to the engine compartment for effective pre-flight inspections.

The engine is set low and the cowling slopes down from the windshield, so forward visibility is excellent. The steel firewall is soundproofed. The power plant is a Rotax 912S2 series four-cylinder, four- stroke engine.

The engine is liquid and air cooled with an integrated 1:2.4286 reduction gear. The use of liquid cooled heads and air cooled cylinders allows the engine to maintain safe operating temperatures even if a rapid descent is performed immediately after a prolonged climb. The quick drain gascolator is installed under the cabin floor and provides easy access for checking fuel.

An electrical fuel pump is installed to provide an effective back-up to the mechanical one. Circuit breakers are standard.

The battery is located in the rear of the fuselage with easy access through an external hinged door. An external power socket allows for engine start, tests, and avionics management/training without the use of internal battery. To maintain safe operating temperatures even if a rapid descent is performed immediately after a prolonged climb.

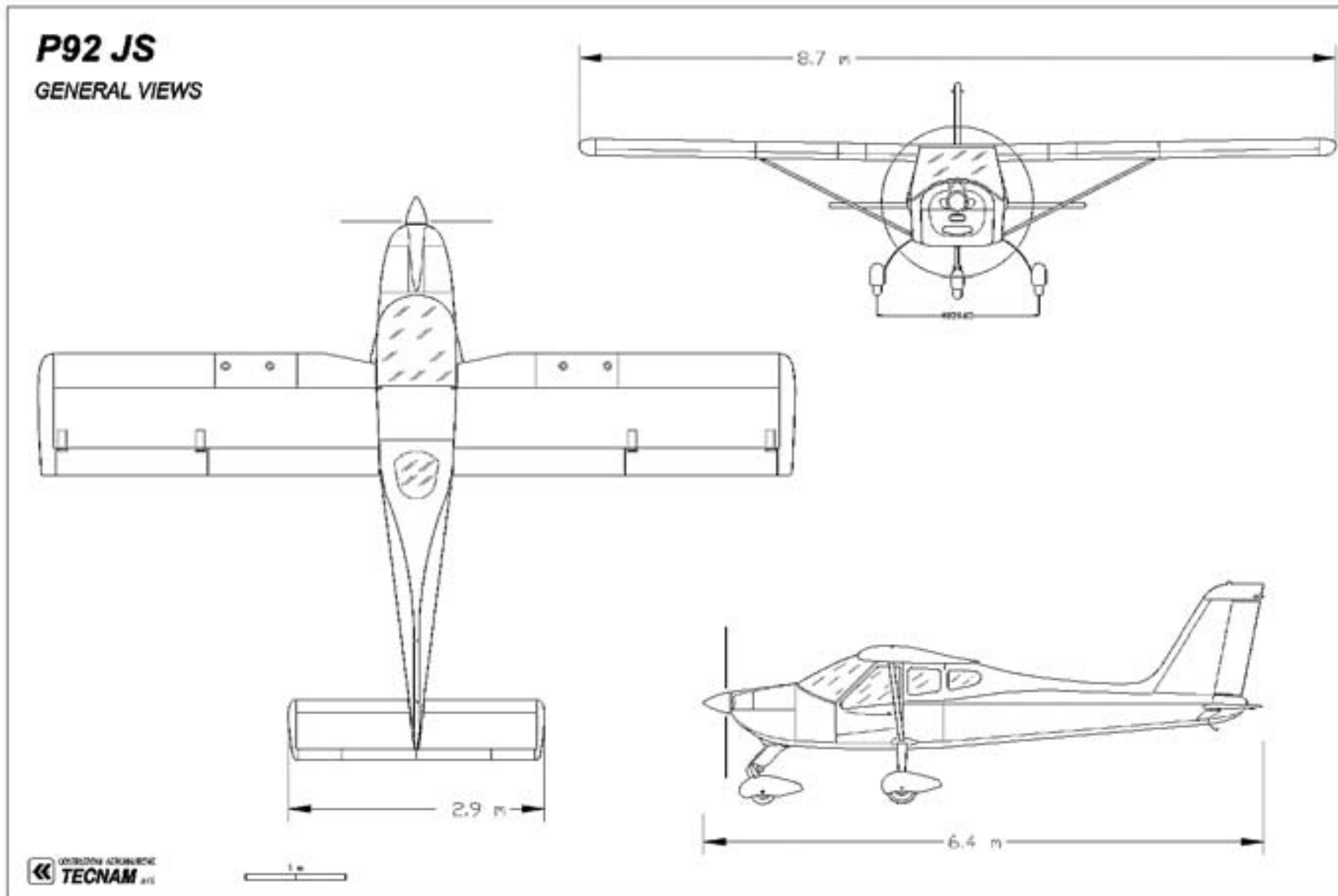
A fixed pitch wood, composite wrapped Hoffmann propeller comes standard while the hydraulic variable pitch propeller from Hoffman is also available as an option. The quick drain gascolator is installed under the cabin floor and provides easy access for checking fuel.

An electrical fuel pump is installed to provide an effective back-up to the mechanical one. Circuit breakers are standard. The battery is located in the rear of the fuselage with easy access through an external hinged door. An external power socket allows for engine start, tests, and avionics management/training without the use of internal battery.

Baggage Compartment		
Width	2.62 ft	0,80 m
Length	1.48 ft	0,45 m
Max. permissible load	44lb	20kg

Cabin		
	ft	m
Height	2.95	0,90
Width	3.6	1,1





## DIMENSIONS

Wing	ft	m	Dimensions	ft	m
Span (overall)	28.5	8,7	Overall Height	8.2	2,5
Area	129 ft <sup>2</sup>	12 mq	Overall Length	21	6,4
Dihedral	1.5°				
Aspect ratio	6.31				

## DESIGN WEIGHT AND LOADING

	P2008JC	
	kg	lb
Maximum Take Off Weight	600	1,320
Empty Weight, Standard	370	815
Useful Load	230	507
Baggage allowance	20	44

## PERFORMANCE

	P92JS	
	Fixed Propeller	
Max Cruise Speed KTAS	118 kts	219 km/h
Stall Speed (Flaps Down Power Off) KCAS	39 kts	72 km/h
Practical ceiling	14000 ft	4267 m
Take off run	623 ft	190 m
Take off distance	1213 ft	370 m
Landing Run	394 ft	120 m
Landing Distance	990 ft	302 m
Rate of climb	1010 ft/min	5,13 m/sec
Range	469 NM	869 km



# STANDARD EQUIPMENT

## FLIGHT INSTRUMENTS and INDICATORS

Magnetic Compass  
 Airspeed Ind., Kts  
 Altimeter (In)  
 Vertical Speed  
 Attitude Gyro  
 Directional Gyro  
 Turn And Bank Indicator  
 Flaps Indicator  
 Pitot System  
 Static System  
 Stabilator Trim Position Indicator

## ENGINE INSTRUMENTS

RPM Indicator  
 Hour Recorder  
 Oil Press  
 Oil Temp.  
 Head Temp.  
 Fuel Press.  
 Voltmeter  
 Ammeter  
 Lh + Rh Fuel Qty

## OTHER INSTRUMENTS / WARNING

Chronometer  
 O.A.T. Indicator  
 Generator Warning Light  
 Vacuum Suction Gauge

## FLIGHT CONTROLS

Hydraulic Brakes  
 Parking Brake  
 Electrical Flaps  
 Dual Flight Controls  
 Steerable Nose Wheel  
 Stabilator Trim (Electric Actuated From Stick)  
 Engine Controls  
 \_ Throttle, Two  
 \_ Carburetor Heat  
 \_ Choke  
 Flight Trim Controls  
 \_ Stabilator With Indicator  
 Fuel Control Selector With On/Off

## FLIGHT CONTROLS

Panel Switches:  
 \_ Starter  
 \_ Fuel Pump  
 \_ Engine Lh And Rh Ignition Switches

## ELECTRICAL SYSTEM

12 VOLT 18A AMP. Battery  
 12 VOLT Alternators-20 AMP.  
 Switches  
 \_Nav. Lights  
 \_Landing Light  
 \_Strobe Light  
 External Power Supply Receptacle

Circuit Breaker Panel

## FUEL SYSTEM

Two Integral Fuel Tanks With 100 Litres  
 Total Capacity  
 Engine Driven Fuel Pump  
 Auxiliary Fuel Pumps, Electric  
 Fuel Quick Drain

## INTERIOR

Pilot And Copilot Seats  
 \_ Adjustable Fore And Aft  
 Seat Belts & Shoulder Harness, All Seats  
 Wall To Wall Carpeting  
 Luggage Compartments  
 Fire Extinguisher  
 Radio Call Plate  
 Soundproofing  
 First Aid Kit

## EXTERIOR

Epoxy Corrosion Proofing, All Structure  
 Two Doors With Lock And Key (Only Lh)  
 Rear Window  
 Tie Down Rings  
 Main Wheels, 5,00 X 5  
 Nose Wheel, 5,00 X 5

**EXTERIOR LIGHTS**

Nav. Lights LED with strobe Aveo Full LED TSO  
Taxi Light Led

**CABIN CONFORT SYSTEM**

Windshield Defroster  
Ventilator Adjustable, 2 Place  
Heating System

**POWERPLANT AND PROPELLER**

ENGINE - 1 ROTAX 912S2 100 HP, 4 Cylinders  
liquid/air cooled, integrated reduction gear  
Dual Ignition System  
Throttle Control Lh/Rh  
Tubular Steel Engine Mount  
Propeller - Hoffmann, 2 Blade Fix  
Propeller Spinner  
Air Filter

Oil Filter  
Oil And Water Coolers  
Carburetor Heat With Manual Control  
Thermostat Valves Oil And Water

**PRODUCT SUPPORT/DOCUMENTS**

Manufacturers Full Two Year Limited Warranty  
Pilots Operation Handbook  
Maintenance Manual  
Parts Catalog  
Aircraft Log Book  
Engine Log Book

**STANDARD GARMIN AVIONICS PACKAGE**

GMA 340 Audio Panel  
GNC 255A COM/NAV  
GTX 335 Transponder ADS-B OUT  
ELT 406 Mhz KANNAD

**Antennas:**

- Transponder
- VHF
- VOR
- Marker Beacon
- ELT

**Speakers**

Microphone

Stick Push-To-Talk Switch-Pilot/Copilot  
Mic & Phone Jacks-Pilot/Copilot

## ROTAX 912 S2

- 4-cylinders
- 4-stroke liquid-/air-cooled engine with opposed cylinders
- Dry sump forced lubrication with separate oil tank, automatic adjustment by hydraulic valve tappet
- Mechanical fuel pump
- Dual electronic ignition
- Propeller speed reduction unit
- Air intake system
- Gearbox Reduction Ratio 2,43:1



**ROTAX**<sup>®</sup>  
AIRCRAFT ENGINES



## STANDARD AVIONICS



### STANDARD GARMIN AVIONIC PACKAGE

- GMA 340 Audio Panel
- GNC 255A COM/NAV
- GTX 335 Transponder ADS-B OUT
- ELT 406 Mhz KANNAD

#### Antennas:

- Transponder
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- VOR
- Marker Beacon
- ELT

#### Speakers

Microphone

Stick Push-To-Talk Switch-Pilot/Copilot

Mic & Phone Jacks-Pilot/Copilot

## PAINT SCHEMES

### Standard



St1.1\_\_ Color Stripes



St1.2\_\_ Color Stripes



St1.3\_\_ Color Stripes



St2.1\_\_ Color Stripes



St2.2\_\_ Color Stripes



St2.3\_\_ Color Stripes



St3.1\_\_ Color Stripes



St3.2\_\_ Color Stripes



St3.3\_\_ Color Stripes



### Special Paints



Sp2.1\_\_ Paints \_\_ Stripes



Sp2.2\_\_ Paints \_\_ Stripes



Sp2.3\_\_ Paints \_\_ Stripes



Code	Description
<b>INSTRUMENTS</b>	
114/A	Turn & Slip Ind. 2"1/4
<b>RADIO &amp; NAVIGATION EQUIPMENTS</b>	
<b>GARMIN-COM/NAV/GPS</b>	
120/A	GTR225 COM 25 Mhz with Antenna and Inst.
120/B	GTR225A COM 8.33 Khz with Antenna and Inst.
119	MD200 VOR Indicator Only for GNC255A (requires optional# 118/A)
121	GTN 650 Com/Nav/Gps with Antennas, Triplex and inst. With GI106A Ind.
121/A	GTN 650 Com/Nav/Gps with Antennas, Triplex. & inst. With GI106A Ind.(Exch. for Std. GNC255A)
122	GTN 750 Com/Nav/Gps with Antennas, Triplex and inst. With GI106A Ind.
122/A	GTN 750 Com/Nav/Gps with Antennas, Triplex & inst. With GI106A Ind.(Exch for Std. GNC255A)
<b>RADIO &amp; NAVIGATION EQUIPMENT</b>	
<b>GARMIN-GPS</b>	
128	AERA 500 with Antenna, Panel Support and Inst.
132	795 with Antenna, Panel Support and Inst.
<b>BENDIX KING</b>	
137	KR 87 ADF with KI227 Indicator
139	DME KN63-14 with KDI 572 Indicator
<b>OTHERS</b>	
157	Head Sets, Two
157/A	BOSE A 20 Head Sets, Two
<b>AIRCRAFT EQUIPMENT</b>	
174	Tinted Windows
176	Toe Brakes (see note #1)
178	Central Quadrant with single throttle level
182	Fuselage Cover
185	Battery Gill G25 (Exchange for standard battery)
209	Control Locker
210	Towing Bar
<b>EXTERIOR</b>	
201/A	Special Paint Two Colors
<b>ENGINE and PROPELLER EQUIPMENT</b>	
187	Aux. Alternator

**#1 - 176 TOE BRAKES** includes:

- New Pedals
- 4 Brakes Pump
- Parking Brake Selector

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