

# P2002 Sierra De Luxe



QUALITY AIRCRAFT SINCE 1948

**TECNAM**

**Advanced Ultra Light**

**ENGINE**

Manufacturer	Rotax
Model	912 ULS2
Power	100 hp
Number of Cylinders	4

**PROPELLER**

Manufacturer	Tonini
Model	GT
Number of Blades	2
Type	Fix

**DESIGNED WEIGHT and LOADING**

	lb	kg
Designed MTOW	1320	600
Limit Loads	+4 / -2 g	
Ultimate Loads	+6 / -3 g	

**DIMENSIONI**

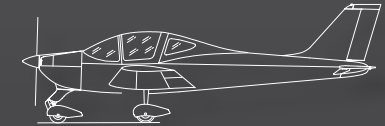
Baggage Allowance	44 lb	20 kg
-------------------	-------	-------

**PERFORMANCE (450 KG) 100 hp**

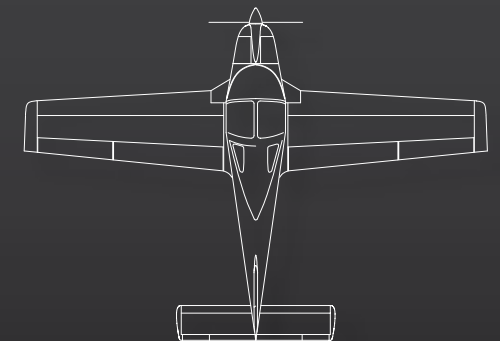
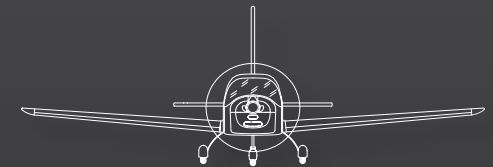
	Kts	Km/h
Speed		
Maximum at Sea Level, Gross Weight	132	245
Cruise, 75% power	122	225
Vne	157	290
Stall Speed		
Flaps Down, power off	35	65
Rate of Climb at Sea Level	1200 ft/m	
Service Ceiling	13,110 ft	4300 m
Takeoff Performance	ft	m
Ground roll	394	120
Total over 50 fr obstacle	721	220
Landing Performance	ft	m
Ground roll	394	120
Total over 50 fr obstacle	885	270
Fuel tank capacity	50x2 Lt	13,2x2 GAL.
Fuel economy	17 Lt./Hr.	4,5 GAL/Hr.

To design the P2002 Sierra Tecnam has made use of the most advanced systems of 3D design, fluid dynamics and structural analysis, resulting in one of the best two-seater low wing aircraft in its category. Tapered laminar flow wing, slotted flaps, up turned wing tips and a streamlined fuselage give to the P2002 superlative performance, a complete harmony of controls and style.

The resulting product is a symphony of aerodynamic and structure effectiveness with graceful, fluid flight. Designed with the pilot in mind, this aircraft will delight even the most discerning pilot while still keeping the inexperienced pilot safe and comfortable.



Wing Span	29,5 ft	9 m
Wing Area	124 sq/ft	11,5 m <sup>2</sup>
Fuselage Length	21,7 ft	6,63 m
Fuselage Height	7,9 ft	2,4 m



**Advantages**

- Superior performance and flight characteristics
- 225 km/h (122 kts) cruise speed
- Stable and responsive
- High level of comfort that makes it ideal for long flights
- Excellent visibility
- Sliding canopy can be opened in flight
- Exciting, yet easy to fly

## Construction

- The Tecnam line employs a monocoque tail cone section with sheet aluminium over steel tubing for the forward section.
- The aluminium tapered wing has a conventional structure with a forward load bearing spar and a conventional rear spar. The wing halves are attached to the fuselage by a very strong carry-through made of 2024-T3 grade aluminium fixed to the cabin truss.
- The fuel tanks hold 13.2 gal/50l each, located in the wing leading edges separated from the fuselage for safety.
- The fuel tanks hold 13.2 gal/50 each located in the wing leading edges, separated from the fuselage for safety.
- The sliding canopy allows 360° of vision from the cockpit. This can be opened in flight up to 70 knots.
- 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 ailerons are effective in allowing for a quick roll rate without being overly sensitive.
- All control surfaces are made out of aluminium.
- The canopy has full rollover protection.

## 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.
- The dual controls come standard with PTT on both sticks.
- The trim tab and the flaps are electrically activated with position indicators on the instrument panel.
- The fresh air vents are conveniently located on each side of the panel.
- The aircraft comes with dual rudder pedals with a steerable nose wheel.
- The interior is spacious, ergonomic and comfortable.
- Cabin is a roomy 44 in/112 cm wide.
- The wide instrument panel is designed to accommodate a full variety of instrumentation.
- Four point harness system is standard



## Landing Gear

- The main landing gear legs are made of spring steel, directly connected to the main structure. The landing gear is robust enough for rough strips and requires no maintenance.
- The trailing link nose gear uses a rubber shock absorber system that was designed for the rigours of the training environment with easy and economical maintenance.
- The main landing gear wheels and brakes are conventional aircraft size (5.00x5)
- The brake lever control and the parking brake are located forward between the seats.

## Engine and Propeller

- The top and bottom engine cowls are quickly and easily removable making any maintenance easier to accomplish. The top cowl has 2 large hinged openings for easy access to the engine compartment, without the need for tools to allow effective pre-flight inspections.
- The engine's mount is steel-tubing with shock mounts. It also supports the nosewheel assembly.
- The power plant is a Rotax 912 ULS2 series (100 Hp) four-cylinder, four-stroke engine.
- The engine is a partially liquid and partially air cooled engine with an integral 1:2.4286 reduction gearbox.
- A fixed pitch wood and composite propeller comes as standard.
- The quick drain gascolator is installed in the engine compartment with easy outside access.
- The fuel system uses a mechanical engine driven pump along with an electrical back-up pump.
- The engine installation allows the option for an additional 40 Ah alternator.
- The battery is easily accessible through a hinged door in the rear fuselage.

## Standard Equipment

<ul style="list-style-type: none"> <li><b>FLIGHT INSTRUMENTS AND INDICATORS</b></li> <li>Magnetic compass</li> <li>Airspeed ind., (Km/h)</li> <li>Altimeter dual mode (in/mb)</li> <li>Vertical speed</li> <li>Bank indicator</li> <li>Flaps indicator</li> <li>Pitot system</li> <li>Static system</li> <li>Stabilator trim position indicator</li> </ul>	<ul style="list-style-type: none"> <li>Oil press</li> <li>Oil temp.</li> <li>Head temp.</li> <li>Fuel press.</li> <li>Voltmeter</li> <li>Lh + rh fuel qty</li> </ul>	<ul style="list-style-type: none"> <li>Engine controls</li> <li>_ Throttle, two</li> <li>_ Choke</li> <li>Flight trim controls</li> <li>_ Stabilator with indicator</li> <li>Fuel control selector with on/off</li> </ul>	<ul style="list-style-type: none"> <li>Switches</li> <li>_ landing light</li> <li>_ strobe light</li> <li>Circuit fuses panel</li> </ul>	<ul style="list-style-type: none"> <li><b>INTERIOR</b></li> <li>Pilot and copilot seats</li> <li>_ Adjustable fore and aft</li> <li>Seat belts &amp; shoulder harness, all seats</li> <li>Wall to wall carpeting</li> <li>Luggage compartments</li> </ul>	<ul style="list-style-type: none"> <li><b>EXTERIOR LIGHTS</b></li> <li>Vertical tail strobe</li> <li>Taxi light</li> </ul>	<ul style="list-style-type: none"> <li>Throttle control lh/rh</li> <li>Tubular steel engine mount</li> <li>Propeller - gt propeller, 2 blade fix</li> <li>Propeller spinner</li> <li>Air filter</li> <li>Oil filter</li> <li>Oil and water coolers</li> </ul>
<ul style="list-style-type: none"> <li><b>ENGINE INSTRUMENTS</b></li> <li>Tachometer</li> <li>Hour recorder</li> </ul>	<ul style="list-style-type: none"> <li><b>FLIGHT CONTROLS</b></li> <li>Hydraulic brakes</li> <li>Parking brake</li> <li>Electrical flaps</li> <li>Dual flight controls</li> <li>Steerable nose wheel</li> <li>Stabilator trim (electric actuated from stick)</li> </ul>	<ul style="list-style-type: none"> <li>Panel switches:</li> <li>_ Starter</li> <li>_ Fuel pump</li> <li>_ Engine lh and rh ignition switches</li> </ul>	<ul style="list-style-type: none"> <li><b>FUEL SYSTEM</b></li> <li>Two integral fuel tanks with 100 litres Total capacity</li> <li>Engine driven fuel pump</li> <li>Auxiliary fuel pumps, electric</li> <li>Fuel quick drain</li> </ul>	<ul style="list-style-type: none"> <li><b>EXTERIOR</b></li> <li>Sliding canopy with lock and key</li> <li>Rear window</li> <li>Tie down rings</li> <li>Main wheels, 5,00 x 5</li> <li>Nose wheel, 4,00 x 6</li> </ul>	<ul style="list-style-type: none"> <li><b>CABIN COMFORT SYSTEM</b></li> <li>Ventilator adjustable, 2 place</li> </ul>	<ul style="list-style-type: none"> <li><b>PRODUCT SUPPORT/ DOCUMENTS</b></li> <li>Manufacturers full two year limited warranty</li> <li>Pilots operation handbook</li> <li>Maintenance manual</li> </ul>
	<ul style="list-style-type: none"> <li><b>POWERPLANT AND PROPELLER</b></li> <li>Engine - 1 ROTAX 912ULS2 100 HP, 4 cylinders</li> <li>Liquid/air cooled, integrated reduction gear</li> <li>Dual ignition system</li> </ul>	<ul style="list-style-type: none"> <li><b>ELECTRICAL SYSTEM</b></li> <li>12 Volt 18a amp. Battery</li> <li>12 Volt alternators-20 amp.</li> </ul>				

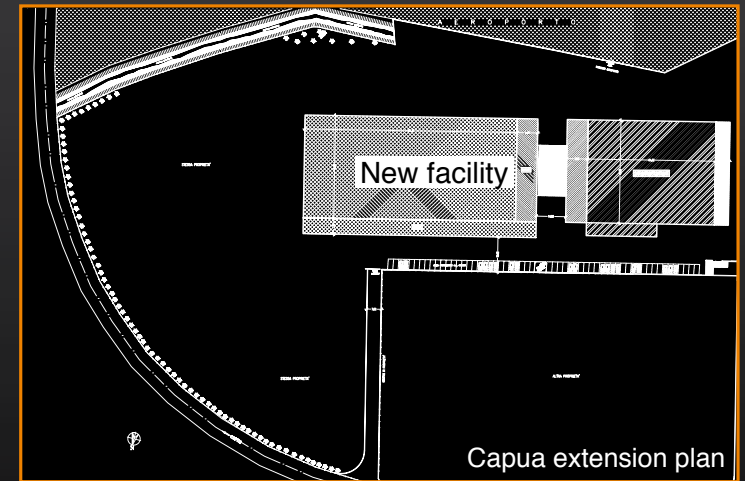
Costruzioni Aeronautiche Tecnam operates in two facilities. The Casoria facility is located adjacent to the Napoli Capodichino Airport and covers an area of 108000 sq ft with 43100 sq ft of enclosed facilities. The Capua facility is located adjacent to the "Oreste Salomone" Airport, covers an area of 129000 sq ft with 43100 sq ft of enclosed facilities. In 2007 construction began on an extension of the Capua facility, adding a new area of 387000 sq ft with 64600 sq ft of enclosed facilities. This extension will double the production capacity of the Capua plant. Modern reinforced concrete buildings are used for manufacturing processes, design activities and office administration.



Capua plant



Casoria plant



Capua extension plan

