



Robin DR401 155CDI

Modelled on the renowned Robin DR400, the new 155CDI is the evolution of an enduring and trusted design into a thoroughly modern light aircraft.

The enviable package of capability, reliability, and economy of purchase and ownership makes the CDI a first choice for four-seat certified aircraft.

What the press says:

“...the rate of climb is impressive at just over 1,000 fpm.”

“...has all of the ingredients needed to be a winner.”

“...the undercarriage is tough enough to easily be up to the task of going in and out of shortish grass strips.”

“...proves to be a versatile, economic aeroplane...”

“...matches the economy of the two-seat sports aircraft...”

“...it has the ability to fly with four people and luggage during the day, night or under IFR.”
(Flyer)

“You couldn’t consider buying a piston single without looking closely at the EcoFlyer.”
(General Aviation)

“...the diesel is so obviously the future.”
(Flyer)

“...nothing short of astounding...the 401 represents all you’ll ever need.”
(General Aviation)

“...the advent of the 401 means you have run out of excuses not to buy a Robin.”
(Flyer)

Featuring:

- 🏆 **A safe, strong and responsive aerostructure**, beautifully finished throughout and easy to maintain with an industry leading **20 year warranty**.

The ecologically sympathetic wood airframe structure has many advantages over those made in composites and metal. Low in weight, high in strength with no fatigue life, this airframe can be easily repaired if damaged, does not degrade under ultraviolet light, as does GRP, will not corrode and is more comfortable in turbulence;



- 🏆 **New Oratex™ covering for the control surfaces:** less weight, less drag, no paint cracking, extremely durable, easy to repair, and a 10 year warranty;

- 🏆 **Thoroughly modern, all alloy engine with constant speed propellor; more than four times as reliable as avgas fuelled engines:**

fuel-injected—no carburettor icing;

turbocharged—retains power at altitude;

electronically managed—exceptional fuel efficiency;

liquid cooled—safe from thermal shock on low power settings;



The **environmentally friendly** CDI engine produces no lead pollution and has lower nitrogen and hydrocarbon emissions than avgas engines. Centurion claims a zero risk of carbon monoxide poisoning. The three-bladed constant speed propellor, liquid cooling and efficient silencing make these aircraft **very quiet**; a great asset in noise sensitive areas. And **performance** is exceptional, the turbocharger preventing the power loss with altitude experienced by non-turbocharged engines up to around 7,000 feet and reducing it at greater altitude;

- 🏆 **Economical use of relatively inexpensive Jet A1 fuel**, the standard of the airlines and the military with worldwide availability, effectively future-proofs the engine, cuts costs and increases range. Automotive diesel can be mixed in any ratio ensuring fuel availability almost anywhere;

- 🏆 **Carry four adults, full fuel and luggage:** up to 450 Kg load—London to Palma on one fill†. Easy access to the four seats is from the upper side of either wing via the forward sliding canopy. The luggage compartment has its own external baggage door and can also be conveniently accessed from within the cabin. With a volume of about 330 litres, the luggage bay will happily swallow a pair of Brompton bicycles with room to spare for bags;



- 🏆 **Outstanding visibility** through the expansive canopy that dips to elbow level, greatly contributes to safety in VFR conditions;

- 🏆 **Easy to fly:** The famous wing produces most of its lift in cruise from the inner section, giving high wing loading for a smoother ride whilst simultaneously reducing drag for better speed. The outer section with dihedral starts to work in earnest during landing and take-off, increasing low speed stability and manoeuvrability. The result is a very safe handling and responsive aeroplane that is a pleasure to fly;

- 🏆 **Equally at home on hard runways or short grass fields:** lift-off in 214 metres and stop in 175 metres even at maximum weight. STOL capability combined with rapid long-range transport!

- 🏆 **Traditional dials or up to the minute ‘glass’ flight displays:** an extensive choice of modern avionics, including autopilots and traffic systems, guide you safely to your destination.



Best In Class—Robin DR401 155CDI

	Base Price (€)	Useful load (kg)	Useful load with 5 hours fuel (kg)	Take-off roll (m)	Landing roll (m)	Range (nm) 60%, 14,000'
Robin DR401 155CDI	207,163	460	385	214	175	950
Diamond DA40 NG	278,700	400	324	390	303	800
Cirrus SR20	283,463	441	310	313	260	627
Tecnam P2010	312,389	420	295	245	200	715
Piper PA28 DX	323,641	360	234	346	280	518
Cessna 172 JT-A	385,000	375	252	288	175	885

† Fuel capacity = 159 litres; 109 litres in the main tank and an additional 50 litres in the long-range tank. Possible load depends on fit.

Performance at MTOW: 1,100 Kg

Useful load (typical VFR fit)	460 Kg
Take off ground roll	214 m
Take off distance over 15 metre obstacle	400 m
Climb rate (on take off)	740 ft/min
Climb speed at maximum angle of climb	65 kt
Optimum climb speed	78 kt
Useful ceiling	16,500 ft
Economical cruise speed (10,000 ft / 50% power)	95 ktas
Economical cruise fuel consumption (10,000 ft / 50% power)	15.3 l/hr
Economical cruise endurance (no reserve)	10.4 hours
Economical cruise range (no reserve)	987 nm
Fast cruise speed (90% power)	134 kt
Fast cruise fuel consumption	29.6 l/hr
Fast cruise endurance	5.4 hours
Fast cruise range	724 nm
Best glide speed	78 kt
Stall speed	49 kt
Demonstrated cross-wind limit	23 kt
Landing speed (with full flap)	65 kt
Landing ground roll	175 m
Landing distance over 15 metre obstacle	415 m

The Cost Equation

Fuel cost for the 155CDI is around £51 per flight hour less than for an avgas powered equivalent. Even paying the tax for non-business use on Jet A-1 the saving is still about £37 per hour.

Overall, maintenance and fuel costs for a 155CDI should about half those for a 180 hp engine for business use and less than three-quarters for personal use.

Mistral Aviation LLP

Sole UK Sales Partner for Robin Aircraft

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