



Experience **ECO1**.

Large cumulus clouds lie next to you, like a string of pearls. You lower the nose and feel the immediate acceleration. When the speed is 300 km/h, you pull the stick towards you and the g-forces press you gently into the ergonomically shaped seat. At 180 km/h, the nose points vertically, and the cumulus clouds lie 90 degrees in direction of travel. You apply coordinated aileron and rudder. The response is instant and you are now almost weightless, as the plane follows a ballistic trajectory, like an arrow. The spacious canopy and the optimised interior make you feel at one with the aircraft. The speed builds up swiftly. After a few more adventuos dives, you level out under the clouds with exhilarating ease.





"The flight sensation is fantastic. Only small rudder movements are needed to get a quick and precise response. I feel this plane is excellent for advanced flying. The view is fantastic, making it enjoyable looking at the surroundings as well as flying."

Rolf Björkman, KSAK Royal Swedish Aero Club, secretary-general



"ECO 1 is an appealing aeroplane, very stable and responsive. Take-off run is short and climb rate is impressive. The reclined seating is very comfortable and the canopy provides a panoramic view. ECO1 is an excellent aircraft for travelling."

Harald Ahlberg, former SAS captain and military fighter pilot



"Our aircraft combines the pleasure of flying with an attractive environmental profile. The optimised aerodynamics make travelling competitive to modern cars, at three times the speed."

Niklas Anderberg, Flight and Safety Design project leader



"When I saw ECO1 for the first time it looked beautiful - and beautiful planes tend to fly well. The test flight proved me more than right."

Mikael Carlson, Airshow pilot



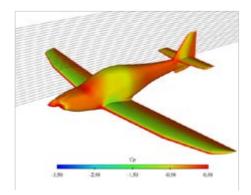
"The flight evaluation left me with a very good impression that this aircraft should have a bright future as a fast and economic aircraft for not only travel and fun, but also as a good trainer.

The stability around the three axes is excellent and manoeuvring is just a joy."

Ove Dalén, professional test pilot



aerodynamic design.



Fuselage

The geometry is based on hundreds of hours of wind tunnel testing, at the Royal Institute of Technology in Stockholm.

After 2,5 years of intense flight testing, the high aerodynamic aims have successfully been verified.



Unique wing

The unique wing has extremely low drag and optimised lift. The backswept tapered wing performs well in crosswind landings and increases stability.

The laminar airfoil is specially developed for the ECO1 platform and is the key to the nice flight characteristics. The high aspect ratio wing performs perfectly with the fuel efficient engine.



Constantly in progress...

In order to make our plane even better we are working to improve the cabin and engine installation.





"This is the engine I've been waiting for all my life. I have been using the 700E. From this experience, I know that HKS engines are the personification of fuel economy.

The 700T, with the benefit of electric fuel injecttion, is reporting fuel burn at least as good as it's 60 hp little brother.

From a performance standpoint, the benefit of the turbo is enormous at density altitude above zero. "

Lars Rönne, Flight and Safety Design mechanic



Engine

The Aircraft is extremely quiet with the fuel efficient HKS 700T.

In contrast to the competitors, this engine also runs on unleaded gasoline and is furthermore going to be offered with a catalytic converter.



Cabin

Higher comfort and elegant functionality. The ergonomically shaped lightweight, carbon fibre seats with adjustable positions provide maximum comfort.

The use of modern Electronic Flight Instrumentation Systems creates a very clean panel and improves the safety.



Personalise

Standard Equipment

Firewall forward	Interior	Other
HKS 700T (80hp)	12V power supply socket	Fuel tank (50I)
Woodcomp ground adjustable propeller	Lockable canopy	Electrical flaps and trim with indicators
Odyssey battery	Headset plug connectors	
Noise reduction muffler	Centre control stick	

Avionics	Exterior	Safety
MGL Enigma incl.:	3-wheel landing gear	Fire extinguisher
- Electronic compass	White acrylic paint	First aid kit
- Attitude and Heading reference system	Lights Package	Tow bar
- Engine monitor	Registration marking	4-point safety belts
- Fuel indicator		Baggage harness
MGL Avionics V10 radio (with intercom)		2 individually operated disk brakes
ELT Artex 406 MHz		
Analog instruments:		
-Air speed indicator		
-Altimeter		
-Compass		

your aircraft.

Firewall forward

Examples from the option list

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Woodcomp in flight adjustable propeller	Dual control stick	Wing fuel tanks (2×501)	
Catalytic converter	Adjustable seat	Electrical wing fuel gauge	
	Carbon fibre sport seats	Canopy cover	
	Leather interior		
	Cabin heat (defroster)		
Avionics	Exterior	Safety	
Filser ATR500 radio	Wheel pants	Ballistic parachute*	
Filser TRT800	Wheel covers	Seat belt air bag	
MGL Voyager EFIS	Mylar speed kit		
Internal transponder antenna	Canopy vent		
Internal VHF antenna	Foot step		
Constant speed controller CSC-1/G			
Autopilot			

Interior

Other

^{*}Parachute rescue system for the whole aircraft www.galaxysky.cz



Specifications for the ECO1 - LSA / VLA^*

	Imperial	Metric
Never Exceed Speed:	160 kts	300 km/h
Cruise Speed:	130 / 140 kts*	240 / 260 km/h* (80 hp at SL)
Stall Speed:	44 kts	82 km/h / (clean / flaps down*)
Range:	650 nm	1200 km (no reserve)
Takeoff Distance:	1000 ft	300 m (15 m obstacle)
Landing Distance:	1000 ft	300 m (15 m obstacle)
Climb Rate:	900 ft/min	4.5 m/s
Best Climb Angle:	54 kts	100 km/h
Max. Takeoff Weight:	1320 lbs	600 kg
Empty Weight:	660 lbs	300 Kg
Wingspan:	33 / 28 ft*	10 / 8.5 m*
Wing Area:	115 / 86 ft ^{2*}	10.7 / 8 m ^{2*}
Length:	19 ft	5.8 m
Load Factors:	+4.4, -2.2	



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