

BENEFITS

- Elliptic wing
(provides ideal lift distribution with minimized induced drag)
- Carbon aramid composite design with honeycomb core
- Max cruising speed 275km/h, uncompromising max speed in turbulence 255km/h (highest in this category)
- Retractable or Fixed gear
- Great joy and value for affordable costs

SHAPE OF SPEED



ellipse
spirit

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COMFORT AND SAFETY

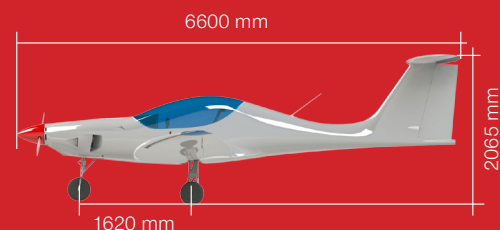
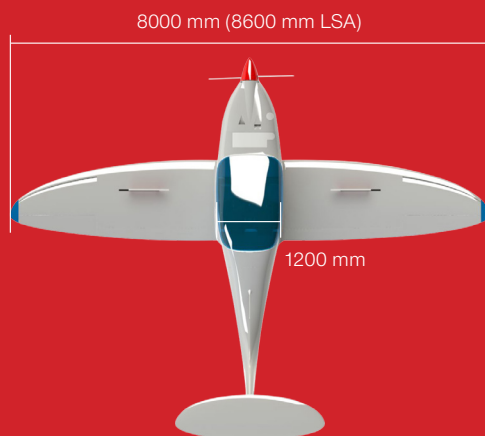
- Sidesticks controls
- Elliptic wing with integrated fixed slot (STOL characteristics)
- Fuel tank is installed in the wing (protects the pilot from leaking fuel in case of an emergency landing)
- Based on flutter tests, extremely rigid composite airframe has been demonstrated for speeds up to 172 kts (317 km/h) and altitudes up to 13100 ft (4000 m)
- Speed brakes
- Tested up to 600 Kg
- Two optional canopy models
- Roomy cabin 120 cm (47 in)
- Baggage compartment 550 l (20 cu.ft)
- Ballistic rescue parachute as standard



CATEGORY	UL	UL (RG)	LSA	E-LSA (RG)
Gear Configuration	Fixed Tricycle Gear	Retractable Gear	Fixed Tricycle Gear	Retractable Gear
DIMENSIONS				
Wing span	8 m (26.25 ft)	8 m (26.25 ft)	8.6 m (28.22 ft)	8.6 m (28.22 ft)
Length	6.55 m (21.49 ft)	6.55 m (21.49 ft)	6.55 m (21.49 ft)	6.55 m (21.49 ft)
Height	2,02 m (6.63 ft)	2,02 m (6.63 ft)	2,02 m (6.63 ft)	2,02 m (6.63 ft)
Wing Area	9.48 m ² (102 sq ft)	9.48 m ² (102 sq ft)	10.34 m ² (111.30 sq ft)	10.34 m ² (111.30 sq ft)
Cockpit Width	1.20 m (3.94 ft)	1.20 m (3.94 ft)	1.20 m (3.94 ft)	1.20 m (3.94 ft)
Cockpit Height	1.05 m (3.45 ft)	1.05 m (3.45 ft)	1.05 m (3.45 ft)	1.05 m (3.45 ft)
Baggage Volume	550 l (20 cu ft)	550 l (20 cu ft)	550 l (20 cu ft)	550 l (20 cu ft)
Baggage Capacity	25 kg (55.12 lbs)	25 kg (55.12 lbs)	25 kg (55.12 lbs)	25 kg (55.12 lbs)
Fuel Capacity	80 l (21.13 US gal)	100 l (26.42 US gal)	120 l (31.70 US gal)	120 l (31.70 US gal)
WEIGHTS AND LOADINGS				
Maximum Take Off Weight	472.5 kg (1042 lbs)	472.5 kg (1042 lbs)	600 kg (1323 lbs)	600 kg (1323 lbs)
Empty Weight (BRS incl.)	294 kg (648 lbs)	306 kg (675 lbs)	324 kg (714 lbs)	339 kg (747 lbs)
Loads	+4 g / -2g	+4 g / -2g	+4 g / -2g	+4 g / -2g
PERFORMANCE - ROTAX 912 ULS (VARIES DEPENDING ON POWER PLANT USED)				
Stall Speed Full Flaps	62 km/h (33 kts)	62 km/h (33 kts)	68 km/h (36 kts)	68 km/h (36 kts)
Stall Speed Clean	78 km/h (42 kts)	78 km/h (42 kts)	81 km/h (44 kts)	81 km/h (44 kts)
Maximum Horizontal Speed	250 km/h (135 kts)	275 km/h (149 kts)	222 km/h (120 kts)	265 km/h (143 kts)
Maximum Speed in Turbulence	257 km/h (139 kts)	257 km/h (139 kts)	257 km/h (139 kts)	257 km/h (139 kts)
Never Exceed Speed	315 km/h (170 kts)	315 km/h (170 kts)	315 km/h (170 kts)	315 km/h (170 kts)
Service Ceiling	4200 m (13780 ft)	4500 m (14760 ft)	3800 m (12470 ft)	4000 m (13120 ft)
Range (45 min reserve)	1060 km (572 nm)	1520 km (820 nm)	1620 km (875 nm)	1800 km (972 nm)

OPTIONAL ENGINES

D-MOTOR LF 26 – 93 Hp
 UL Power 260i – 97 Hp
 ROTAX 912 ULS – 100 Hp
 ROTAX 912iS – 100 Hp
 ROTAX 914 UL – 115 Hp
 Lycoming IO-233 – 125 Hp
 UL Power 350iS – 130 Hp



Try ELLIPSE SPIRIT in air yourself!

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Airplane is designed for maximum design speed VD 350 km/hr (190 kts) and all versions for MTOM of 600 kg. Great advantage is maximum speed in turbulence Vra 255km/h. The composite structure is made of carbon aramid composite structure with using of honeycomb core. The monocoque construction with outstanding safety for the pilot is thus making the Ellipse Spirit very light and extremely strong. The airframe is designed to meet all the requirements in compliance with German regulations LTF-UL for „Ultralight Aircraft“, European regulations for CS-LSA (light sport aeroplanes), U.S.FAR 23 and US LSA specification for design and performance for „Ultralight and Experimental Light Sport Aircraft“. The design and shape of the aircraft are protected by the Community designs and the patent applications. Final assembly and main maintenance center is located at LKSU airport.

