

Technical Data

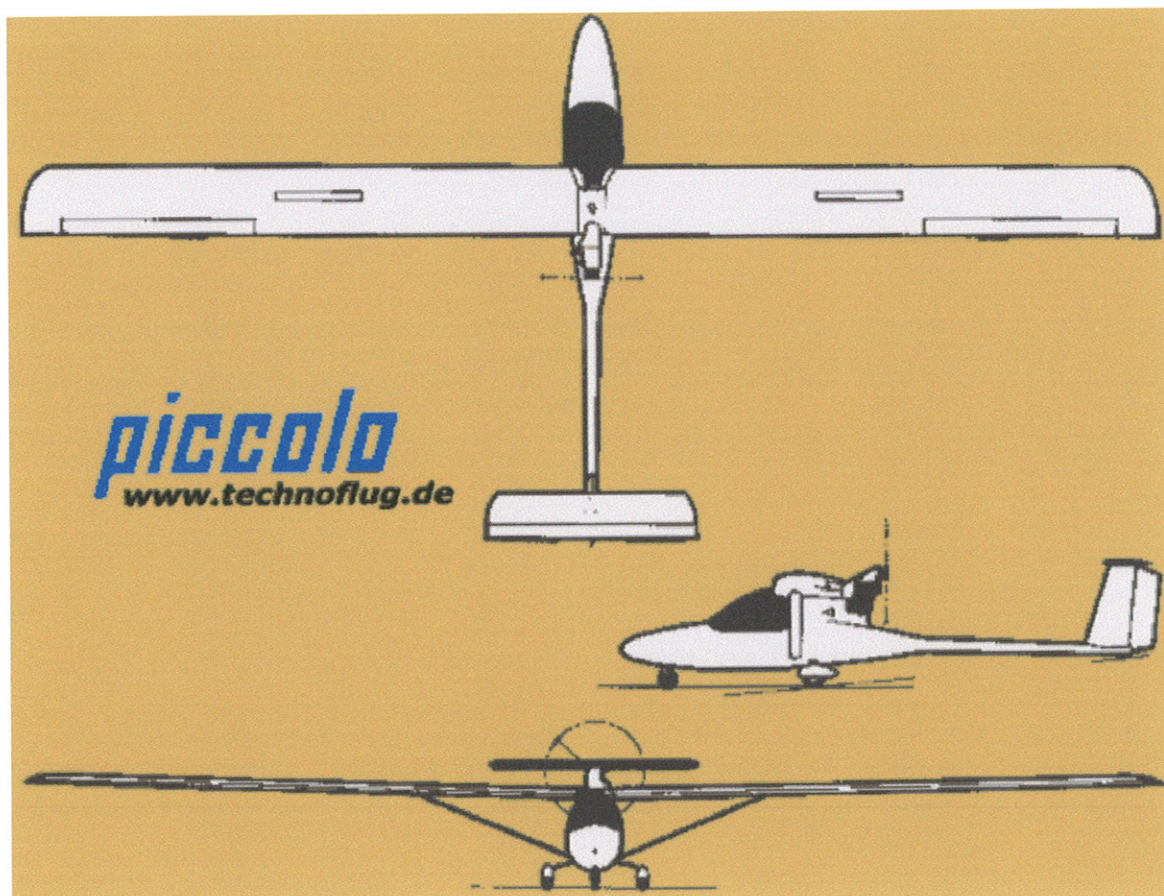
Three-sides-view | Construction

Wing span	13,30 m (43.6 ft)
Length	6,28 m (20,6 ft)
Wing area	10,60 m ² (114 sq ft)
Aspect ratio	16,6
Emty weight, approx.	180 kg (397 lbs)
Maximum take-off weight	297 kg (655 lbs)
Wing loading	28 kg/m ² (5.7 lbs/sq ft)
Limiting manoeuvring load factor	+5,3 / -2,65
Stall speed	54 km/h (29 kts)
Manoeuvring speed	128 km/h (69 kts)
Never-exceed speed	170 km/h (91 kts)
Engine: maximum continius power	17 KW (23 hp) at 5500 rpm
Fuel	2-stroke-mix 40:1
Tank capacity	22,5 l
Noise emission LSL, Chap.10	50,8 dB(A)
Flying with motor:	
Cruising speed at 5500 rpm 8,1 l/h	135 km/h (73 kts)
Cruising speed at 4900 rpm 5,6 l/h	120 km/h (65 kts)
Best rate of climb with max. cont. power	2,2 m/s (434 ft/min)

Take-off distance to clear 50 ft obstacle (Beton/Gras)	273/308 m (895/1010 ft)
Take-off roll (Beton/Gras)	117/152 m (383/498 ft)
Range	420 km (227 NM)
Soaring:	
Best lift/drag ratio	23 at 78 km/h (42 kts)
Minimum sink rate	0,9 m/s (177 ft/min)

Three-sides-view

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wings

- hardfoam supported glassfibre-sandwich hull with GFRP I-spar
- Wortmann FX 63-137 profile, not sensitive to rain
- tubular steel strut lined with GFRP, spoiler speed brakes on the surface

- Hotelier-lock for ailerons, karabiner for speed brakes

fuselage

- pure GFRP hull with GFRP ribs, main rib of tubular steel
- controls for the most part of aluminium with maintenance-free ball-bearings. rudder control via steel-rope
- aluminium tank
- GFRP seat glued tightly, adjustable back-rest
- plexiglas canopy with ventipane and sliding window with gaspring support
- lead accumulator 12V 12Ah
- electric fuel pump
- temperature indication for revolution counter and cylinder head, engine operating hours counter and radio antenna standard
- elevator unit
- muffled T-tail unit with automatic control surface connection. fastening with 3 screws, automatic securing

lannding gear

- three-legged tricycle landing gear. nose wheel sprung and steerable wheel 210 x 65
- main landing gear with constant pinion of massive GFRP with very good suspension characteristics. Wheels 260 x 85 with drum brake. GFRP wheel cowlings

engine

- Solo 2350 BS two-cylinder two-stroke in-line engine
- air-cooling
- magneto ignition
- floating carburettor
- electric starter, generator 12V 180W
- submission gearbox with 3 drive-belts 2,1 : 1

propeller

- Technoflug KS 118-3-2 (new)
- fold-prop with aluminium hub and three single folding GFRP-blades
- diameter: 1,22m

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