



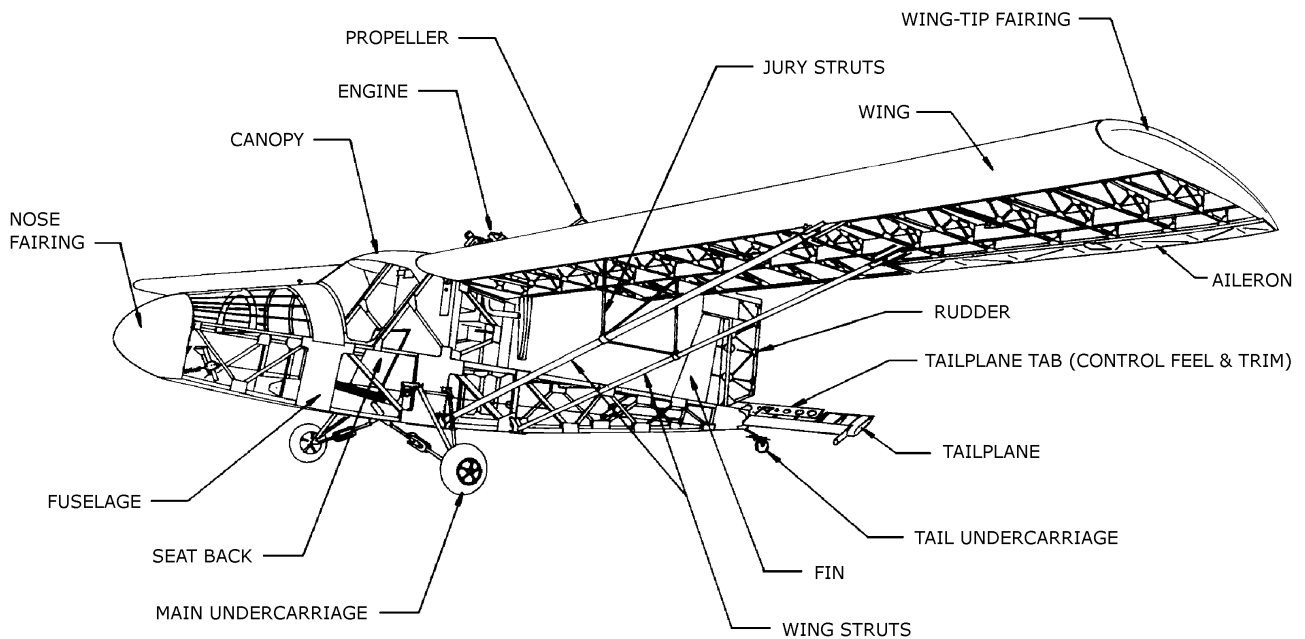
## Maya Specifications

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### General Arrangement



### Leading Dimensions

Wing Span	27' 10"
Wing Area (Gross)	116.0 ft <sup>2</sup>
Wing Loading @ 480 lb AUW	4.14 lb/ft <sup>2</sup>
Length	17' 6"
Height (Top of Engine)	5' 5"
Wheel Track	4' 10"

### Aerodynamic Surfaces

Surface	Area (net) ft <sup>2</sup>	Span	Chord	Aerofoil (modified)
Wing	110.7	27' 10"	50"	NACA 4412.5
Tailplane	15.3	6' 7"	28"	NACA 0012.5
Fin/Rudder	7.5	3' 5"	26.3"(mean)	NACA 0013.5 (root) NACA 0016.8 (tip)

### Design Weights

Empty Weight	254 lb
Maximum Pilot & Baggage Weight *	200 lb
Fuel	26 lb
Maximum Weight (Maximum AUW)	480 lb

\* Maximum pilot height is 6ft with the standard canopy.



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Design Speeds		
Never Exceed Speed	$V_{ne}$	100mph
Maximum Cruise	$V_c$	79mph
Maximum in Rough Air	$V_a$	71mph
Stall Speed	$V_{stall}$	37mph

Flight Load Factors		
OPERATIONS LIMITED TO NON-ACROBATIC MANOEUVRES		
<b>ULTIMATE LOAD FACTORS</b> , for MANOEUVRE at $V_a$	+5.70	-2.25
<b>ULTIMATE LOAD FACTORS</b> , GUST ALLOWANCE at $V_c$	+6.44	-3.44

Power Plant	
Type	Konig SD-570/R with starter motor, muffler and standard ground adjustable 1.3M 3-blade propeller.
Reduction	1.75:1
Power	28 HP
Power Loading	17 lb/HP (at maximum AUW)
Weight	57 lb (complete; incl' rubber mounts and throttle cables)
Fuel Capacity	14.75 Litres (3-¼ Imp. Gal., 3.9 US Gal.)
Endurance	1 HR+

Performance *	
Maximum Level Speed	63mph
Stall Speed	<37mph
Rate Of Climb @ Sea-Level	500 fpm @ AUW 420 lb 350 fpm @ AUW 460 lb 200 fpm @ AUW 480 lb

\* Performance figures are quoted for the standard plans-built aircraft. i.e.

- Standard power plant and factory propeller (exposed engine without nacelle).
- Standard surface tip fairings and fuselage nose fairing.
- Un-faired wing struts and wheels.
- No wing fences fitted.

### Important Note:-

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