

Morin M85



Description:

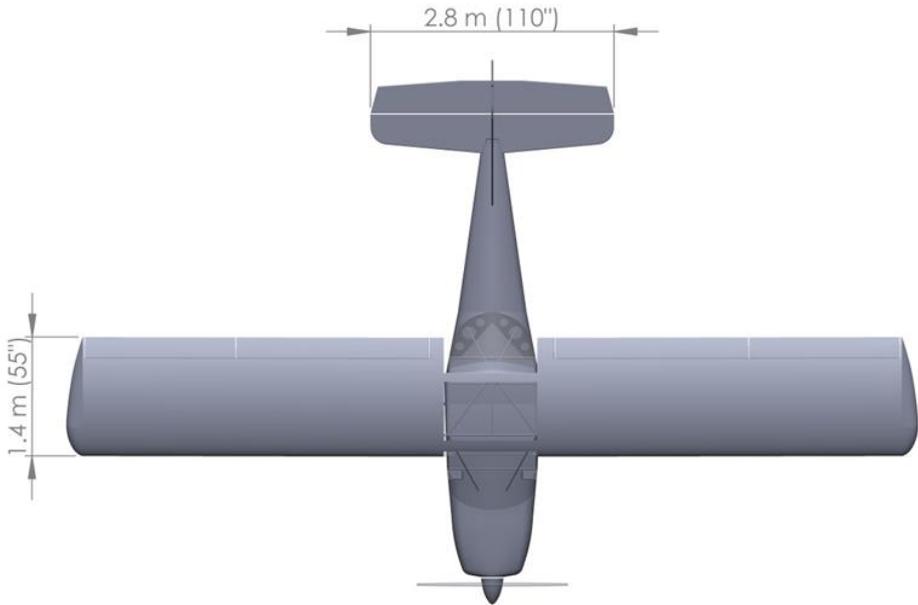
The M-85 is a recreational and utility light aircraft with 750 lb. empty weight, 1250 - 1430 lb. gross and a power of 80 - 100 HP.

Its design requirements included a large cabin and great visibility, easy and pleasant fly characteristics and high STOL capabilities. It is designed for homebuilders with large safety factors built in a rugged structure. The fuselage is made of welded steel tubes; the wings can be of wood or aluminum, with a high lift airfoil, slotted flaps and optional leading-edge slots. A rear streamlined stabilizer is available as an option.

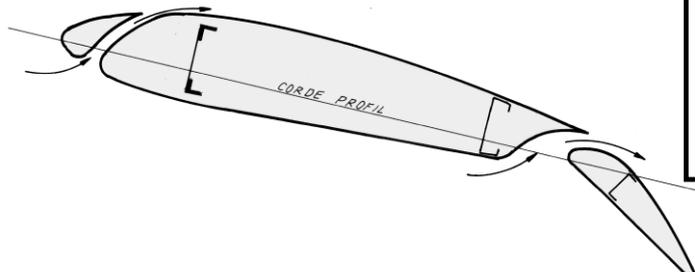
Specifications:

SPECIFICATIONS	SI	In-lbs
Wing span	9.87 m	32ft - 4in
Length	6.16 m	20ft - 2in
Wing area - wood	13.3 m ²	143 sq.ft
Wing area - aluminum	13.4 m ²	144 sq.ft
Aspect ratio	7.3	7.3
Empty weight	340 kg	750 lb
Gross weight (without parachute)	570 kg – 650 kg	1250 lb – 1430 lb
Fuel tanks	54 L	14 GAL
Engine	80-120 HP	80-120 HP
PERFORMANCES WITH ROTAX 912 80 HP		
Design Cruise speed	160 km/h	100 mph
Stall speed	60 km/h	37 mph
Rate of climb	4.5 m/s	900 fpm
VNE	195 km/h	125 mph

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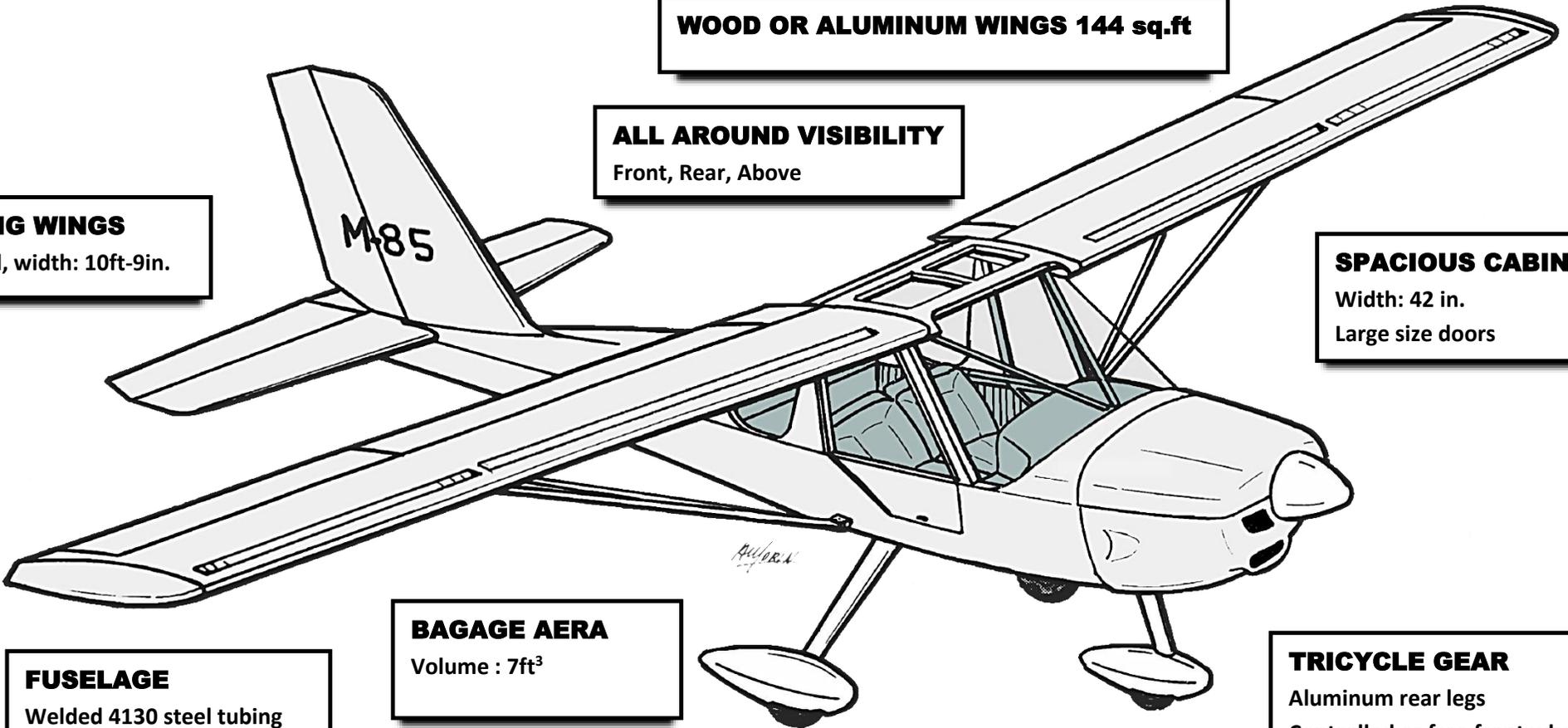
HIGH LIFT WING
Thick airfoil NACA 4413
Slotted ailerons and flaps
Full span leading edge slots

WOOD OR ALUMINUM WINGS 144 sq.ft

ALL AROUND VISIBILITY
Front, Rear, Above

FOLDING WINGS
Rearward, width: 10ft-9in.

SPACIOUS CABIN
Width: 42 in.
Large size doors



FUSELAGE
Welded 4130 steel tubing

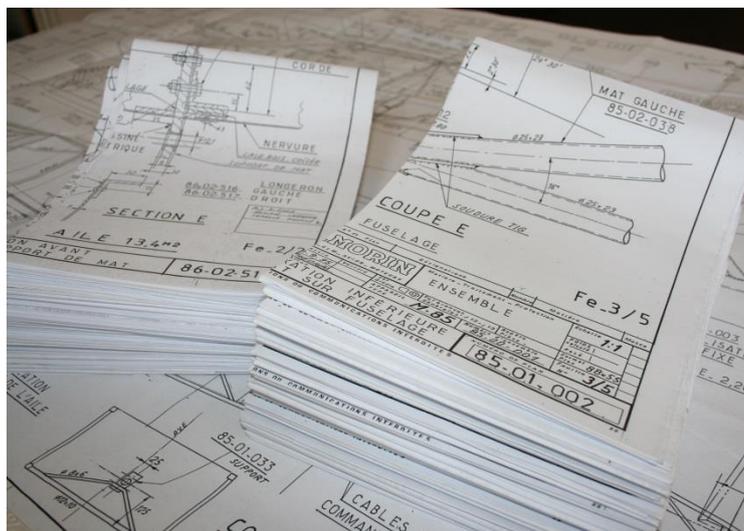
BAGAGE AERA
Volume : 7ft³

TRICYCLE GEAR
Aluminum rear legs
Controlled or free front wheel

CENTER STICK
Easy access

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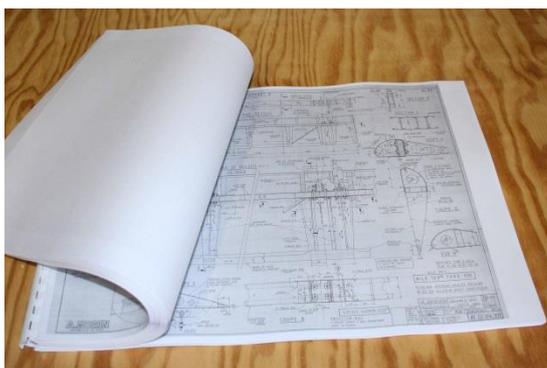
PLANS:



AN EXTRAORDINARY SET: 143 blueprints!

It is composed of large overview plans and very complete detail plans at scale 1:1.

A **MANUAL** containing general information, suppliers and subcontractors coordinates, assembly instructions, bibliography.



11"x17" (A3) reduced size booklet of the full 143 drawings for easy scrolling through the plans or technical documentation

Under development:

- Reinforced gear for 600kg (1340Lb.) gross weight
- Tailwheel gear conversion
- Tandem seating fuselage

Note: The dimensions in the plans are in SI units. The materials can be directly replaced by their inch equivalent. A material equivalence table is in the manual

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