

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

3A1
Revision 10
Meyers
MAC-125C
MAC-145

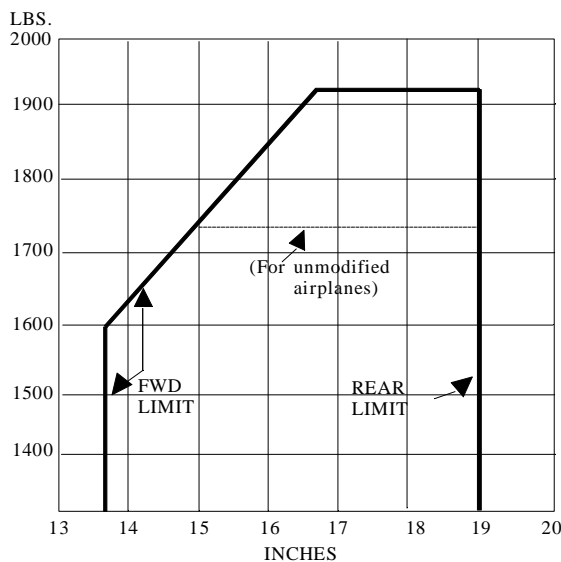
January 18, 1995

TYPE CERTIFICATE DATA SHEET NO. 3A1

Type Certificate Holder: Estumkeda, Ltd (c/o Eric Dorsky)
P. O. Box 292228
Davie, FL 33329

I - Model MAC-145, 2 PCLM, Approved November 2, 1948

Engine	Continental C145-2
Fuel	80 Min. octane aviation gasoline
Engine limits	For all operations, 2700 rpm (145 hp)
Airspeed limits	Glide or dive 200 mph True Ind.
	Level flight or climb 155 mph True Ind.
	Flaps extended 95 mph True Ind.
	Gear extended 110 mph True Ind.
	Propeller limits (with Item 1)
C.G. range	Diameter: Not over 76 in., not under 71.5 in.
	(+16.7) to (+19.0) at 1910 lbs. (See NOTE 3 for required modification)
	(+15.0) to (+19.0) at 1735 lbs.
	(+13.7) to (+19.0) at 1600 lbs. or less. Straight line variation between points given.



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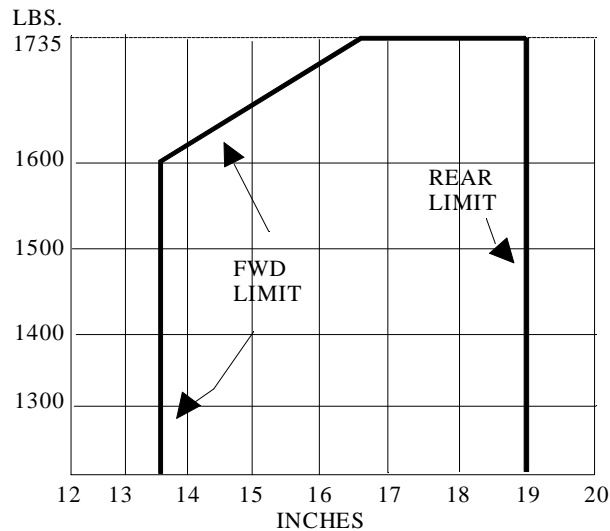
Empty weight C.G. range	(±10.5) to (±14.3). When empty weight C.G. falls within this range, computation of critical force and aft C.G. positions is unnecessary. Range is not valid for non-standard configurations.			
Maximum weight	1735 lbs. (1910 lbs. when modified in accordance with provisions of NOTE 3)			
No. seats	2 (+26)			
Maximum baggage	100 lbs. (+54) (Main) 20 lbs. (+61) (Map shelf per Meyers Dwg. No. 43G027)			
Fuel capacity	32 gals. Main (+33). (See Item 107 for auxiliary fuel system)			
Oil capacity	2 gals. (-40)			
Control surface movements	Elevator -	Restricted	Up 9°	Down 20°
		Unrestricted	Up 22°	Down 20°
	Elevator trim tab		Up 14°	Down 50°
	Ailerons		Up 22°	Down 9.5°
	Rudder -	Restricted	Right 9.5°	Left 9.5°
		Unrestricted	Right 21°	Left 16°
	Flaps		Up 0°	Down 45°
Serial Nos. eligible	203 and up			
Required equipment	Items 1, 101, 102, 104, 105, 106, 201, 202, 204, 301, 302, 303.			

II - Model MAC-125C, 2 PCLM

(Same as Model MAC-145 except for engine and propeller installation).

Engine	Continental C125-2	
Fuel	80 min. octane aviation gasoline	
Engine limits	For all operations,	2550 rpm (125 hp)
Airspeed limits	Glide or dive	200 mph True Ind.
	Level flight or climb	155 mph True Ind.
	Flaps extended	95 mph True Ind.
	Gear extended	110 mph True Ind.
Propeller limits	See Item 4	

C.G. range (+16.7) to (+19.0) at 1735 lbs.
 (+13.7) to (+19.0) at 1600 lbs.
 Straight line variation between points given.



Empty weight C.G. range (+10.6) to (+14.3). When empty weight C.G. falls within this range, computation of critical fore and aft C.G. positions is unnecessary. Range is not valid for non-standard arrangements.

Maximum weight 1735 lbs.

No. seats 2 (+26)

Maximum baggage 50 lbs. (+41)

Fuel capacity 32 gals. Main (+33). (See Item 107 for auxiliary fuel system)

Oil capacity 2 gals. (-40)

Control surface movements	Elevator -	Restricted	Up	9°	Down	20°
		Unrestricted	Up	22°	Down	20°
	Elevator trim tab		Up	14°	Down	50°
	Ailerons		Up	22°	Down	9.5°
Rudder -	Restricted	Right	9.5°	Left	9.5°	
	Unrestricted	Right	21°	Left	16°	
	Flaps		Up	0°	Down	45°

Serial Nos. eligible 203 and up

Required equipment Items 4, 101, 102, 104, 105, 106, 201, 202, 204, 301, 302, 303.

Specifications Pertinent to All Models.

Datum 12 in. aft of forward face of firewall at centerline of airplane

Leveling means Lower door sill

Certification basis Type Certificate No. 3A1 (CAR 4a)

Production basis None. Prior to original certification of each aircraft an FAA representative must perform a detailed inspection for workmanship, material, and conformity with the approved technical data and a check of the flight characteristics.

Export eligibility Eligible for export to all countries subject to the provisions of MOP 2-4 except as follows:
 (a) Canada - Landplane - eligible
 Skiplane - not eligible

Equipment: A plus (+) or minus (-) sign preceding the weight of an optional item indicates the net weight change when that item is installed.

Propellers and Propeller Accessories

1. Propeller - Lewis L-6FK-3-54, L-6FK-3-52, L-6FK-48 or any other fixed pitch wood propeller which is eligible for the engine power and speed and which meets the diameter and static rpm limits given under "Propeller Limits" for Model MAC-145. Eligible only with Continental C-145 engine with dampered crankshaft denoted by suffix letter "D" after engine serial number. 15 lbs. (-59)
2. Propeller - McCauley 1A170-DM7657 or any other Model 1A170-DM propeller that meets the following limits: Static rpm at maximum permissible throttle setting: Not over 2230, not under 2110. No additional tolerance permitted. Diameter: Not over 76 in., not under 72.5 in. Eligible on Model MAC-145 only. McCauley propeller spinner, Meyers Dwg. #47R032 optional. 34 lbs. (-59)
3. Propeller - Hartzell ground adjustable HA12UF/8032-6 Blade pitch setting 15° at 3/4 of propeller radius or set to obtain following limits: Static rpm at maximum permissible throttle setting: Not over 2210, not under 2110. No additional tolerance permitted. Diameter: Not over 74 in., not under 72.5 in. Eligible on Model MAC-145 only with Continental C-145 engine dampered crankshaft denoted by suffix letter "D" after engine serial number. 22 lbs. (-59)
4. Propeller - Koppers Aeromatic F200/0074E Parts List assembly No. 4920, dated October 13, 1948. Installation and operation must be accomplished in accordance with Koppers "Installation Procedures and Operating Limitations No. 24," dated October 12, 1948. Low pitch setting 13° at 24 in. sta. Static rpm at maximum permissible throttle setting: Not over 2550, not under 2450. No additional tolerance permitted. Diameter: Not over 74 in., not under 72.5 in. Eligible on Model MAC-125C only. 33 lbs. (-60)
5. Propeller - Koppers Aeromatic F200H/00-74E Parts list assembly No. 4356H-1 (Includes Altitude Control 4427) 34 lbs. (-61)
 6 lbs. (-46)
 Adjustment and operation must be accomplished in accordance with Koppers "Adjustment Instructions and Operating Limitations No. 45"
 Low pitch setting 13° at 24 in. sta.
 Static rpm at maximum permissible throttle setting: Not over 2675, not under 2575.
 No additional tolerance permitted.
 Diameter: Not over 74 in., not under 72.5 in.
 (Eligible on Model MAC-145 only with Continental C-145 engine dampered crankshaft denoted by suffix letter "D" after engine serial number).
 Hampton propeller spinner Model 1-B optional.
6. Propeller - Sensenich M74DR, fixed pitch metal (Model MAC-145 only) 30 lbs. (-59)
 Static rpm at maximum permissible throttle setting: Not over 2380, not under 2210.
 No additional tolerance permitted.
 Diameter: Not over 74 in., not under 72 in.

Engines and Engine Accessories - Fuel and Oil System

101.	Carburetor air heater and mufflers (Meyers Dwg. No. 47R003)	14 lbs.	(-35)
102.	Carburetor air intake and filter assy. (Continental No. A40692)	4 lbs.	(-42)
103.	Starter, Delco-Remy No. 1109656 (Continental No. 50309)	16 lbs.	(-25)
104.	Engine- driven fuel pump, AC No. 1539051 (Continental No. 40585)	2 lbs.	(-52)
105.	Hand fuel pump, AC No. 1539051 (Continental No. 40585)	2 lbs.	(-14)
106.	Cowl flaps and control (Meyers Dwg. No. 47R008)	2 lbs.	(-15)
107.	Auxiliary fuel system installation per Meyers Dwg. 47R004, R.H. and L.H. wing tanks, capacity 8½ gals. each Fuel arm of auxiliary tanks (+29)	13 lbs.	(+29)
108.	Electric fuel pump, Bendix Model No. 476818, replacing Item 05 (Model MAC-145 only).	2 lbs.	(-14)

Landing Gear

201.	Two main wheel-brake assemblies, 6.00-6, Type III	13 lbs.	(+8)
	(a) Goodrich (formerly Hayes) Model 600MD Wheel Assembly No. D-3-47MD Brake Assembly No. D-2-129		
	(b) Goodrich Model 601MD Wheel Assembly No. D-3-512-MD Brake Assembly No. D-2-505	14 lbs.	(+8)
202.	Two main wheel 4-ply rating tires, 6.00-6, Type III (with regular tubes)	18 lbs.	(+8)
204.	Tail wheel assembly		
	(a) Meyers Dwg. No. 44B039	12 lbs.	(+166)

Electrical Equipment

301.	Battery - 12 volt	31 lbs.	(-15)
302.	Engine driven generator (Cont. 40435)	10 lbs.	(-25)
303.	Voltage regulatory - Delco-Remy (Cont. 40483)	2 lbs.	(-14)

Interior Equipment

401.	Wheel control, Meyers Dwg. No. 46A040	10 lbs.	(+20)
402.	Stick control, Meyers Dwg. No. 46R001	7 lbs.	(-20)

NOTE 1. Current weight and balance report including list of equipment included in certificated weight empty, and loading instructions when necessary, must be in each aircraft at the time of original certification and at all times thereafter (except in the case of air carrier operators having an approved weight control system).

NOTE 2. The following placards must be displayed in front of and in clear view of the pilot:

"INTENTIONAL SPINNING PROHIBITED."
"DO NOT EXTEND FLAPS ABOVE 95 MPH."
"DO NOT EXTEND GEAR ABOVE 110 MPH."

NOTE 3. All model MAC-145 aircraft eligible at 1910 lbs. maximum weight when following is accomplished:
(a) Reinforcement of fuselage tail cone bulkhead No. 4 as per Meyers Dwg. No. 43R001 change C or subsequent.
(b) Install propeller item (2) or (5) as noted.

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