



# CONTENT

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## **SECTION 2: CHANGES/VARIANTS**

(Reserved)



8. EASA Exemptions: none
9. EASA Equivalent Safety Findings: none
10. EASA Environmental Standards: Noise: ICAO Annex 16, 3<sup>rd</sup> Edition 1993, Volume 1, Chapter 10  
Emission: N/A

**A.III. Technical Characteristics and Operational Limitations**

1. Type Design Definition: Master Drawing List DG-OMF100-00000  
Master Parts List PL-OMF100-00000
2. Description: Single engine, high wing tractor with conventional tail configuration, two-seats (side-by-side), metal construction, fixed tricycle landing gear with nose wheel.
3. Equipment: Equipment List (see AFM)
4. Dimensions:
- |                |                      |                          |
|----------------|----------------------|--------------------------|
| Wing Span      | 10,670 m             | (35.00 ft)               |
| Total Length   | 6,960 m              | (22.84 ft)               |
| Maximum Height | 2.820 m              | (9.25 ft)                |
| Wing Area      | 11.93 m <sup>2</sup> | (128.4 ft <sup>2</sup> ) |
5. Engine/s: No.1  
Lycoming O-320-D2A  
Certification Basis: CAR 13 amendment 13-3  
LBA Type Certificate No. 4578  
dated December 1, 1988
- 5.1 Engine Limits: Max rotational speed 2700 r.p.m.  
Max continuous rotational speed 2700 r.p.m
6. (Reserved)
7. Propeller/s: No.1  
MT-Propeller  
MT 186 R 140-3D  
2 blades, fixed propeller  
Diameter: 1854 mm ± 0 mm (73 in)
8. Fluids:
- 8.1 Fuel: AVGAS 100LL
- 8.2 Oil: Oil in acc. to MIL-L-6082 and MIL-L-22851
- 8.3 Coolant: none
9. Fluid capacities:
- |           |                     |               |
|-----------|---------------------|---------------|
| 9.1 Fuel: | S/N 0003 up to 0012 | S/N0013 an up |
| Total:    | 123 liters          | 122 liters    |
| Usable:   | 114 liters          | 110 liters    |

9.2 Oil:	Maximum: 7.0 liters
10. Air Speeds (@ MTOW 889 kg):	
Design Manoeuvring Speed $V_A$	111 KIAS (@ MTOW 975 kg: 116 KIAS)
Flap Extended Speed (40°) $V_{FE}$	90 KIAS
Maximum structural cruising speed $V_{MO}$	130 KIAS
Never exceed speed $V_{NE}$	162 KIAS
11. (Reserved)	
12. All weather Capability:	S/N 0003 up to 0012: VFR day only S/N 0013 and up: <ul style="list-style-type: none"><li>- VFR Day/Night if AM 1107/0002 Part 3a installed</li><li>- IFR if AM 1107/0002 Part 3b installed</li></ul> Flight into expected or actual icing conditions is prohibited
13. Maximum Masses:	
Roll	889 kg
Take-off	889 kg
Landing	889 kg
If AM 1107/0002 Part 1 installed:	
Roll	975 kg
Take-off	975 kg
Landing	826 kg
14. Centre of Gravity Range:	
Forward limit	2460 mm behind Datum
Rear limit:	2605 mm behind Datum
15. Datum:	1537 mm in front of firewall
16. (Reserved)	
Levelling Means:	see Maintenance Manual OMF-100-160
18. Minimum Flight Crew:	1 (Pilot)
19. Maximum Passenger Seating Capacity:	1
20. (Reserved)	
21. Baggage / Cargo Compartments	
Max. allowable load (fwd and aft)	75 kg
or fwd. baggage compartment	45 kg
aft baggage compartment	45 kg
22. Wheels and Tyres	
Nose Wheel Tyre Size	5.00-5ply
Main Wheel Tyre Size	5.00-5ply

#### **A.IV. Operating and Service Instructions**

1. Airplane Flight Manual (AFM):

S/N 0003 up to 0012: a) Flughandbuch OMF-100-160, LBA approved 25 August 2000 (German version), Rev. 1, November 22, 2000 or any later EASA approved revision  
b) Airplane Flight Manual AM-OMF100-101000, LBA approved (for FAA) January 23, 2001, Rev. 1, June 25.

S/N 0013 up to 0022: a) Flughandbuch AM-OMF100-101001-D, LBA approved May 31, 2002 (German version) or any later EASA approved version  
b) Airplane Flight Manual AM-OMF100-101001-E, Issue May 15, 2002, LBA approved (for FAA) May 31, 2002.

S/N 0023 and up: a) Flughandbuch AM-OMF100-101000-D, LBA approved May 6, 2002 (German version) or any later EASA approved version  
b) Airplane Flight Manual AM-OMF100-101000-E, Rev. 2, April 15, 2002, LBA approved (for FAA) May 6, 2002.

**Remark:** The English versions of the Airplane Flight Manuals mentioned above under b) are restricted for use on US-registered airplanes only.

2. Maintenance Manual OMF-100-160 (incl. Airworthiness Limitations)

3. Operating and Installation Instructions for E-112 MT-Wooden/Composite fixed propeller

**A.V. Notes**

- (1) This certification applies to serial numbers 0003 and up.
- (2) Noise Data Level determined according to ICAO/Annex 16 Ch. 10 is  
69,4 dB(A) (@ MTOW 889 kg  
73,3 dB(A) (@ MTOW 975 kg

**SECTION 2: Changes/Variants**

(Reserved)