DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

A00067IB
Revision 0
Costruzioni Aeronautiche TECNAM S.p.A.
P-Mentor
May 07, 2024

TYPE CERTIFICATE DATA SHEET No. A00067IB

This Data Sheet, which is part of Type Certificate No. A00067IB, prescribes conditions and limitations under which the product for which the Type Certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder — Costruzioni Aeronautiche Tecnam S.p.A.
Via S. D'acquisto 62
80042 Boscotrecase (NA)
Italy

I - Model P-Mentor (Normal Category), Approved May 07, 2024

Engine	One Rotax 912 iSc3 Sport Engine (TC E00051EN)
Fuel	AVGAS 100LL (ASTM D910) MOGAS ASTM D4814 (Min RON 95)
Engine Limits	For Rotax 912 iSc3 Sport Engine: Maximum Power, 98.6 hp @ 5,800 rpm (5 min) Maximum Continuous Power, 96.6 hp @ 5,500 rpm
Propeller and Propeller Limits	MT Propeller MT MTV-21-A/180-51 (TC P16BO) Two blades, constant speed, variable pitch, wood composite Diameter: 70.9 in (1800 mm) Clockwise rotation (pilot's view)
Oil	Use only oil with RON 424 or RON 451 classification For additional info, refer to "Operator manual for Rotax Engine Type 912 i Series," latest issue

Airspeed Limits

	KIAS	KCAS	
V_O (Operating Manoeuvring Speed)	102	103	
V_A (Design Manoeuvring Speed)	102	103	
V_{FE} (Maximum Flap Extended Speed)	106	105	Flap T/O
	96	95	Flap LAND
V_{NO} (Maximum Structural Cruising Speed)	107	108	
V_{NE} (Never Exceed Speed)	135	136	

Center of Gravity (C.G.) Range

Mean Aerodynamic Chord (MAC) = 52 in (1.322 m)
Forward limit:
69 in (1.753 m) (23% MAC) aft of datum up to 1,213 lb (550 kg)
70.1 in (1.780 m) (25% MAC) aft of datum for MTOW

Aft Limit:
74.4 in (1.889 m) (33% MAC) aft of datum up to 1,213 lb (550 kg)

Empty Weight C.G. Range	None	
Datum	Propeller support flange without spacer (the aircraft must be levelled in the longitudinal plane)	
Levelling Means	Refer to the seat track supporting beams (See Aircraft Flight Manual (AFM), Document No. 2002/1032, Section 6 for the procedure)	
Maximum Weight	Take-off Landing	1587 lbs (720 kg) 1587 lbs (720 kg)
Minimum Crew	1 Pilot	
Number of Seats	2	
Baggage/Cargo Compartments Weight	Maximum 66 lbs (30 kg)	
Fuel Capacity	Total (2 tanks): Useable (total):	37 U.S. Gal. (140 L) 35 U.S. Gal. (131.6 L)
Oil Capacity	Maximum: Minimum:	3.17 U.S. Qts (3 L) plus the volume in the pipe 2.64 U.S. Qts. (2.5 L) plus the volume in the pipe
Maximum Operating Altitude	13000 ft (3962 m)	
Control Surface Movements (*)	Ailerons Stabilator Stabilator trim tab (****) Rudder Flaps	25°±2° TEU (**); 20°±2° TED (***) 12°±2° TEU; 2°±2° TED 0°±2° TEU; 11°±2° TED 30°±2° RH; 30°±2° LH 15°±2° TED (Take-off position) 30°±2° TED (Landing position)
	(*) Nominal Values (**) Trailing Edge Up (***) Trailing Edge Down (****) with Stabilator set 0°	
Manufacturer's Serial Numbers	S/N 1001/US and subsequent	
Import Requirements	A U.S. airworthiness certificate may be issued on the basis of an NAA Export Certificate of Airworthiness (Export of C of A) signed by a representative of the Ente Nazionale per l'Aviazione Civile (ENAC) on behalf of the European Community. The Export C of A should contain the following statement "The aircraft covered by this certificate has been examined, tested, and found to comply with U.S. Type Certificate No. A00067IB and to be in a condition for safe operation." Title 14 CFR § 21.183 (c) is the U.S. airworthiness certification basis for an aircraft type certificated under 14 CFR § 21.29 and imported from the country of manufacture. Refer to the applicable bilateral agreement to verify eligibility for import into the United States of both new and used aircraft based on the scope of the agreement, to identify any required statements by the exporting authority on the export certificate of airworthiness (or equivalent document), and for procedures for coordinating exceptions to conformity statements on these documents. Refer to FAA Order	

8130.2, *Airworthiness Certification of Aircraft*, for requirements for issuance of an *airworthiness certificate* for imported aircraft.

Certification Basis

Type Certification under 14 CFR Section 21.29 including the following requirements:

1. 14 CFR Part 23 effective February 1, 1965, including amdt 23-1 through 23-64, "Airworthiness Standards: Normal Category Airplanes."

2. The detailed design standards used as a means of compliance in accordance with § 23.2010 are documented in 2002/1265, Model P-Mentor Detailed Design Standard Summary.

3. 14 CFR Part 36 effective December 1, 1969, including amdt 36-1 through 36-28

4. Equivalent levels of safety (ELOS):
   None

5. Approved Kinds of Operation:
   Day and Night, Visual Flight Rules (VFR) and Instrument Flight Rules (IFR)

6. Prohibited Kinds of Operation:
   Flight into known icing conditions

Type Certificate No. A00067IB issued May 07, 2024.

Date of Application for FAA Type Certificate was August 12, 2022.

The European Aviation Safety Agency (EASA) originally type certified this aircraft under its type certificate number EASA.A.006.

Equipment

The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the airplane for certification. In addition, the following item of equipment is required:

- AFM, Document No. 2002/1032 Ed. 1, Rev 9, dated March 06, 2024, or later approved revision, for the Model P-Mentor.

Service Information

Each of the documents listed below must state that it is approved by EASA:

- Service bulletins,
- Structural repair manuals,
- Vendor manuals,
- Aircraft flight manuals, and
- Overhaul and maintenance manuals.

The FAA accepts such documents and considers them FAA-approved for type design data only unless one of the following conditions exists:

- The documents change the limitations, performance, or procedures of the FAA approved manuals; or
- The documents make an acoustical or emissions changes to this product's U.S. type certificate as defined in 14 CFR § 21.93.

The FAA uses the post type validation procedures to approve these documents. The FAA may delegate on case-by-case to EASA to approve on behalf of the FAA for the U.S. type certificate. If this is the case, it will be noted on the document.

Available documents for the Model P-Mentor:

- AFM, Document No. 2002/1032 Ed. 1, Rev 9, dated March 06, 2024, or later approved revision.
- Airplane Maintenance Manual (AMM) doc. 2002/1033 Ed. 1, Rev. 3, dated July 17, 2023, or later FAA approved revision.
- The appropriate Rotax 912 iSc3 Sport Engine maintenance manuals.
- The appropriate MT Propellers Instruction Manual.

NOTES

NOTE 1

Current weight and balance report, including list of equipment included in certificated empty weight and loading instructions, when necessary, must be provided for each aircraft at the time of original certification.

The certificated empty weight and corresponding center of gravity location must include:

Unusable fuel: 13.3 lbs at 84.2 aft of datum
Unusable oil: 4.7 lbs at 31.5 in fwd of datum

NOTE 2

Airplane operation must be in accordance with the FAA approved AFM listed above. All placards listed in Section 2 Limitations must installed as specified. The AFM Limitations are EASA and FAA approved and may not be revised without EASA and FAA approval.

NOTE 3

Airworthiness Limitations are specified in the Section 2 LIMITATIONS of the AFM and Chapter 4 of the AMM and are approved by EASA and the FAA. These LIMITATIONS specify mandatory replacement times, and operating limitations, and may not be changed without EASA and FAA approval.

NOTE 4

Information essential for the proper operation, maintenance and inspection of the airplane is contained in the Tecnam P-Mentor AFM and AMM.

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