Issue:7 Date: 26 July 2022



TYPE-CERTIFICATE DATA SHEET

NO. EASA.IM.A.018

for MAULE M-4

Type Certificate HolderMaule Aerospace Technology, Inc.

2099 Georgia Highway 133 South Moultrie, Georgia 31768 USA

For models:

Bee Dee M-4, M-4, M-4C, M-4S, M-4T,
M-4-210, M-4-210C, M-4-220, M-4-220C, M-4-220S, M-4-180V
M-5-180C, M-5-210C, M-5-235C
M-6-235
M-7-235, M-7-235B, M-7-235C, MT-7-235,
MX-7-160, MX-7-180, MX-7-180A, MX-7-180B, MX-7-180C, MX-7-235,
MXT-7-160, MXT-7-180, MXT-7-180A



Issue: 07 Date: 26 July 2022

Intentionally left blank



Issue: 07 Date: 26 July 2022

SECTION A: M-4 (BEE DEE M-4, M-4, M-4C, M-4S, M.-4T)

- A.I. General
- A.II. Certification Basis
- A.III. Technical Characteristics and Operational Limitations
- A.IV. Operating and Service Instructions
- A.V. Notes

SECTION B: M-4-210 (M-4-210, M-4-210C)

- B.I. General
- B.II. Certification Basis
- B.III. Technical Characteristics and Operational Limitations
- B.IV. Operating and Service Instructions
- B.V. Notes

SECTION C: M-4-220 (M-4-220, M-4-220C, M-4-220S)

- C.I. General
- C.II. Certification Basis
- C.III. Technical Characteristics and Operational Limitations
- C.IV. Operating and Service Instructions
- C.V. Notes

SECTION D: M-4-180V

- D.I. General
- D.II. Certification Basis
- D.III. Technical Characteristics and Operational Limitations
- D.IV. Operating and Service Instructions
- D.V. Notes



Issue: 07 Date: 26 July 2022

SECTION E: M-5-180C

- E.I. General
- E.II. Certification Basis
- E.III. Technical Characteristics and Operational Limitations
- E.IV. Operating and Service Instructions
- E.V. Notes

SECTION F: M-5-210C

- F.I. General
- F.II. Certification Basis
- F.III. Technical Characteristics and Operational Limitations
- F.IV. Operating and Service Instructions
- F.V. Notes

SECTION G: M-5-235C

- G.I. General
- G.II. Certification Basis
- G.III. Technical Characteristics and Operational Limitations
- G.IV. Operating and Service Instructions
- G.V. Notes

SECTION H: M-6-235

- H.I. General
- H.II. Certification Basis
- H.III. Technical Characteristics and Operational Limitations
- H.IV. Operating and Service Instructions
- H.V. Notes

SECTION J: M-7-235

- J.I. General
- J.II. Certification Basis
- J.III. Technical Characteristics and Operational Limitations
- J.IV. Operating and Service Instructions
- J.V. Notes



Issue: 07 Date: 26 July 2022

SECTION K: M-7-235B

- K.I. General
- K.II. Certification Basis
- K.III. Technical Characteristics and Operational Limitations
- K.IV. Operating and Service Instructions
- K.V. Notes

SECTION L: M-7-235C

- L.I. General
- L.II. Certification Basis
- L.III. Technical Characteristics and Operational Limitations
- L.IV. Operating and Service Instructions
- L.V. Notes

SECTION M: MT-7-235

- M.I. General
- M.II. Certification Basis
- M.III. Technical Characteristics and Operational Limitations
- M.IV. Operating and Service Instructions
- M.V. Notes

SECTION N: MX-7-160 (MX-7-160, MXT-7-160)

- N.I. General
- N.II. Certification Basis
- N.III. Technical Characteristics and Operational Limitations
- N.IV. Operating and Service Instructions
- N.V. Notes

SECTION O: MX-7-180 (MX-7-180, MXT-7-180)

- O.I. General
- O.II. Certification Basis
- O.III. Technical Characteristics and Operational Limitations
- O.IV. Operating and Service Instructions
- O.V. Notes



Issue: 07 Date: 26 July 2022

SECTION P: MX-7-180A (MX-7-180A, MXT-7-180A)

- P.I. General
- P.II. Certification Basis
- P.III. Technical Characteristics and Operational Limitations
- P.IV. Operating and Service Instructions
- P.V. Notes

SECTION Q: MX-7-180B

- Q.I. General
- Q.II. Certification Basis
- Q.III. Technical Characteristics and Operational Limitations
- Q.IV. Operating and Service Instructions
- Q.V. Notes

SECTION R: MX-7-180C

- R.I. General
- R.II. Certification Basis
- R.III. Technical Characteristics and Operational Limitations
- R.IV. Operating and Service Instructions
- R.V. Notes

SECTION S: MX-7-235

- S.I. General
- S.II. Certification Basis
- S.III. Technical Characteristics and Operational Limitations
- S.IV. Operating and Service Instructions
- S.V. Notes

ADMINISTRATIVE SECTION

- I. Acronyms
- II. Type Certificate Holder Record
- III. Change Record

Issue: 07 Date: 26 July 2022

SECTION A: MODEL BEE DEE M-4

A.I. General

1. Data Sheet No.: IM.A.018, Issue 7

2. a) Type M-4

b) Model Bee Dee M-4

c) Variant Bee Dee M-4 (4 PCLM, Normal Category, FAA approved 10 Aug 1961)

M-4 (4 PCLM, Normal Category, FAA approved 21 Feb 1963)

M-4C (4 PCLM, Normal Category, FAA approved 7 Oct 1965, same as M-4 except for modified right fuselage truss, larger rear doors to

facilitate cargo loading and other minor changes)

M-4S (4 PCLM, Normal Category, FAA approved 15 Mar 1966, same

as Model M-4 except for minor changes)

M-4T (2PCLM, Normal Category, FAA approved 15 Mar 1966, same as

Model M-4C except no rear seats or rear door and other minor

changes)

3. Airworthiness Category Normal Category

4. Type Certificate Holder Maule Aerospace Technology, Inc.

2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

5. Manufacturer Maule Aerospace Technology, Inc.

2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

6. Certification Application State of Design Authority 01 Nov 1957

7. (Reserved)

8. EASA Type Certification Date 12 Feb 1965 (LBA)

A.II. EASA Certification Basis

1. Reference Date for determining the

applicable requirements:

01 Nov 1957

2. Airworthiness Requirements: CAR 3, Amdt 3-1 through 3-5 eff 15 May 1956 and 3.705

amended by 3-7

3. Special Conditions: None

4. Exemptions: None

5. Deviations: None

6. Equivalent Safety Findings: None



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2022. All rights reserved. ISO9001 Certified. Page 7 of 73 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Issue: 07 Date: 26 July 2022

7. Requirements elected to comply:

8. Environmental Standards: ICAO, Annex 16, Vol 1

9. (Reserved)

10. (Reserved)

A.III. Technical Characteristics and Operational Limitations

Master Drawing List Model M-4

1. Type Design Definition:

2. Description: single piston engine, four-seats, steel cage construction, high

wing with conventional tail and tailwheel

3. Equipment: refer to AFM

4. Dimensions: refer to AFM

5. Engine:

5.1.1 Model: Continental O-300-A or O-300-B

5.1.2 Type Certificate: FAA E-253

5.1.3 Limitations: For all operations 2700 rpm

6. Load factors:

7. Propeller:

7.1 Model: McCauley 1A170-DM7460 or McCauley 1C172

7.2 Type Certificate: FAA P-842 or P-910

8. Fluids:

8.1 Fuel: 80/87 minimum grade aviation gasoline

8.2 Oil: refer to AFM

9. Fluid capacities:

9.1 Fuel: Standard Fuel Tank Total: 163 Litre

Usable: 159 Litre

9.2 Oil: Maximum: 7,5 Litre

Minimum: 3.5 Litre

10. Air Speeds: Design Manoevring Speed V_A: 109 KIAS (125 mph)

Flap Extended Speed V_{FE}: 78 KIAS (90 mph)

Maximum Structural Cruising Speed V_{NO}:126 KIAS (145 mph)

Never Exceed Speed V_{NE}: 156 KIAS (180 mph)

11. (Reserved)

12. (Reserved)



Issue: 07 Date: 26 July 2022

13. Maximum Weights: Take-off 953 kg (2100 lbs)

14. Centre of Gravity Range: Forward limit from +38 to +58 cm at 953 kg

From +28 to +58 cm at 635 kg

15. Datum: Wing leading edge

16. (Reserved)

17. Levelling Means: levelling lug and mark on bottom side of right-wing root

18. Minimum Flight Crew: 1

19. Maximum Passenger Seating 3

Capacity:

20. Baggage/Cargo 45 kg

Compartments:

21. (Reserved)

A.IV. Operating and Service Instructions

1. Flight Manual (AFM): Model M-4 dated 3/15/66 or later approved revision

2. Maintenance Manual (MM): MM for Model M-4

A.V. Notes:

- 1. This certification applies to serial numbers M-4 Series under Production Certificate 11S0
- 2. Additional equipment refer to AFM
- 3. Variants:

Model M-4, 4 PCLM (Normal Category), FAA Approved February 21, 1963

Model M-4C, 4 PCLM (Normal Category), FAA Approved October 7, 1965, Same as Model M-4 except for modified right fuselage truss, larger rear doors to facilitate cargo loading, and other minor changes.

Model M-4S, 4 PCLM (Normal Category), FAA Approved March 15, 1966, Same as Model M-4 except for minor changes.

Model M-4T, 2 PCLM (Normal Category), FAA Approved March 15, 1966, Same as Model M-4C except no rear seats or rear door and other minor changes.



Issue: 07 Date: 26 July 2022

SECTION B: MODEL M-4-210

B.I. General

1. Data Sheet No.: IM.A.018, Issue 7

2. a) Type: M-4

b) Model: M-4-210

c) Variant: M-4-210 (4 PCLM, Normal Category, FAA approved 24 Sep

1964)

M-4-210C (4 PCLM, Normal Category, FAA approved 07 Oct

1965)

3. Airworthiness Category: Normal Category

4. Type Certificate Holder: Maule Aerospace Technology, Inc.

2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

5. Manufacturer: Maule Aerospace Technology, Inc.

2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

6. Certification Application Date: 01 Nov 1957

7. (Reserved)

B.II. <u>EASA Certification Basis</u>

1. Reference Date for determining the applicable requirements: 01 Nov 1957

2. Airworthiness Requirements: CAR 3, Amdt 3-1 through 3-5 eff 15 May 1956 and 3.705

amended by 3-7

3. Special Conditions: None

4. Exemptions: None

5. Deviations: None

6. Equivalent Safety Findings: None

7. Requirements elected to comply:

8. Environmental Standards: ICAO, Annex 16, Vol 1

9. (Reserved)

10. (Reserved)



Issue: 07 Date: 26 July 2022

B.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Master Drawing List Model M-4-210

2. Description: single piston engine, four-seats, steel cage construction, high

wing with conventional tail and tailwheel

3. Equipment: refer to AFM4. Dimensions: refer to AFM

5. Engine:

5.1.1 Model: Continental IO-360-A

Continental IO-360-D for s/n 1086C and up

5.1.2 Type Certificate: EASA.IM.E.005 (FAA E1CE)

5.1.3 Limitations: IO-360-A: Maximum continuous hp, rpm, in. Hg. alt.

Critical altitude 195-2800-26.2-2250 ft.

Sea level 195-2800-26.5

Takeoff hp (5 min.) 210-2800 F.T.

IO-360-D: F.T. all operations 210 hp - 2800 rpm

6. Load factors: -

7. Propeller:

7.1 Model: McCauley D2A3467/76C-2 (used on A)

McCauley D2A34C67N/S76C-2 (used on A or D)

7.2 Type Certificate: FAA P7EA

8. Fluids:

8.1 Fuel: 100/100LL minimum grade aviation gasoline

8.2 Oil: refer to AFM

9. Fluid capacities:

9.1 Fuel: Standard Fuel Tank Total: 1683 Litre

Usable: 151,5 Litre

9.2 Oil: Maximum: 9,5 Litre

10. Air Speeds: Design Manoevring Speed V_A: 109 KIAS (125 mph)

Flap Extended Speed V_{FE}: 78 KIAS (90 mph)

Maximum Structural Cruising Speed V_{NO}:126 KIAS (145 mph)

Never Exceed Speed V_{NE} :

156 KIAS (180 mph)

11. (Reserved)

12. (Reserved)



Issue: 07 Date: 26 July 2022

13. Maximum Weights: Take-off 953 kg (2100 lbs)

14. Centre of Gravity Range: Forward limit from +38 to +58 cm at 953 kg

From +28 to +58 cm at 635 kg

15. Datum: Wing leading edge

16. (Reserved)

17. Levelling Means: levelling lug and mark on bottom side of right-wing root

18. Minimum Flight Crew: 1

19. Maximum Passenger Seating

Capacity:

20. Baggage/Cargo 113 kg

Compartments:

21. (Reserved)

B.IV. Operating and Service Instructions

1. Flight Manual (AFM): Model M-4-210 dated 9/12/64 or later approved revision

2. Maintenance Manual (MM): MM for Model M-4-210

B.V. Notes:

- 1. This certification applies to serial numbers M-4-210 Series under Production Certificate 11S0
- 2. Additional equipment refer to AFM
- 3. Variants: Model M-4-210C, 4 PCLM (Normal Category), FAA Approved October 7, 1965

Issue: 07 Date: 26 July 2022

SECTION C: MODEL M-4-220

C.I. General

1. Data Sheet No.: IM.A.018, Issue 7

2. a) Type: M-4

b) Model: M-4-220

c) Variant: M-4-220 (4 PCLM, Normal Category, FAA approved 18 Oct

1966

M-4-220C (4 PCLM, Normal Category, FAA approved 18 Oct

1966)

M-4-220S (4 PCLM, Normal Category, FAA approved 18 Oct

1966)

3. Airworthiness Category: Normal Category

4. Type Certificate Holder: Maule Aerospace Technology, Inc.

2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

5. Manufacturer: Maule Aerospace Technology, Inc.

2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

6. Certification Application Date: 01 Nov 1957

7. (Reserved)

8. LFV Certification Date 9 May 1968

C.II. <u>EASA Certification Basis</u>

Reference Date for determining

the applicable requirements:

01 Nov 1957

2. Airworthiness Requirements: CAR 3, Amdt 3-1 through 3-5 eff 15 May 1956 and 3.705

amended by 3-7

3 Special Conditions: None

4. Exemptions: None

5. Deviations: None

6. Equivalent Safety Findings: None

7. Requirements elected to comply: -

8. Environmental Standards: ICAO, Annex 16, Vol 1

9. (Reserved)

10. (Reserved)



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2022. All rights reserved. ISO9001 Certified. Page 13 of 73 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Issue: 07 Date: 26 July 2022

C.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Master Drawing List Model M-4-220

2. Description: single piston engine, four-seats, steel cage construction, high

wing with conventional tail and tailwheel

3. Equipment: refer to AFM4. Dimensions: refer to AFM

5. Engine:

5.1.1 Model: Franklin 6A-350-C1

5.1.2 Type Certificate: EASA.E.088

5.1.3 Limitations: Take-off (5 min) 2800 rpm

For all other operation 2800 rpm at 26.5 in.hg.

6. Load factors: -

7. Propeller:

7.1 Model: McCauley 2A31C21/84S-8 or -6

McCauley 2A34C22-N/S84SF-6 or -8

7.2 Type Certificate: FAA P-919 or P3EA

8. Fluids:

8.1 Fuel: 100/100LL minimum grade aviation gasoline

8.2 Oil: refer to AFM

9. Fluid capacities:

9.1 Fuel: Standard Fuel Tank Total: 163 Litre

Usable: 151,5 Litre

9.2 Oil: Maximum: 9,5 Litre

10. Air Speeds: Design Manoevring Speed V_A: 109 KIAS (125 mph)

Flap Extended Speed V_{FE}: 78 KIAS (90 mph)

Maximum Structural Cruising Speed V_{NO}:126 KIAS (145 mph)

Never Exceed Speed V_{NE}: 156 KIAS (180 mph)

11. (Reserved)

12. (Reserved)

13. Maximum Weights: Take-off 1043 kg (2300 lbs)



Issue: 07 Date: 26 July 2022

14. Centre of Gravity Range: Forward limit from +40 to + 48 cm at 1043 kg

From +28 to +58 cm at 953 kg

15. Datum: Wing leading edge

16. (Reserved)

17. Levelling Means: levelling lug and mark on bottom side of right wing root

18. Minimum Flight Crew: 1

19. Maximum Passenger Seating 3

Capacity:

20. Baggage/Cargo 45 kg

Compartments:

21. (Reserved)

C.IV. Operating and Service Instructions

1. Flight Manual (AFM): Model M-4-220 dated 9/28/66 or later approved revision

2. Maintenance Manual (MM): MM for Model M-4

C.V. Notes:

- 1. This certification applies to serial numbers M-4-220 Series under Production Certificate 11S0
- 2. Additional equipment refer to AFM
- 3. Variants:

Model M-4-220C, 4 PCLM (Normal Category), FAA approved 18 Oct 1966

Model M-4-220S, 4 PCLM (Normal Category), FAA approved 18 Oct 1966

Issue: 07 Date: 26 July 2022

SECTION D: MODEL M-4-180V

D.I. General

1. Data Sheet No.: IM.A.018, Issue 7

2. a) Type: M-4

b) Model: M-4-180V (2PCLM, Normal Category, FAA approved 06 Sep

2005)

c) Variant:

3. Airworthiness Category: Normal Category

4. Type Certificate Holder: Maule Aerospace Technology, Inc.

2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

5. Manufacturer: Maule Aerospace Technology, Inc.

2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

Certification Application Date: 01 Nov 1957

7. (Reserved)

8. EASA Certification Date 24 Jan 2006

D.II. <u>EASA Certification Basis</u>

1. Reference Date for determining the applicable requirements: 01 Nov 1957

2. Airworthiness Requirements: CAR 3, Amdt 3-1 through 3-5 eff 15 May 1956 and CS23.955

3 Special Conditions: None
3. Exemptions: None
4. Deviations: None
5. Equivalent Safety Findings: None

6. Requirements elected to comply: -

7. Environmental Standards: ICAO, Annex 16, Vol 1

8. (Reserved)

9. (Reserved)

D.III. <u>Technical Characteristics and Operational Limitations</u>

1. Type Design Definition: Master Drawing List Model M-4-180V

2. Description: single piston engine, two-seats, steel cage construction, high

wing with conventional tail and tailwheel

3. Equipment: refer to AFM4. Dimensions: refer to AFM



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2022. All rights reserved. ISO9001 Certified. Page 16 of 73 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Issue: 07 Date: 26 July 2022

5. Engine:

5.1.1 Model: Lycoming O-360-C1F or O-360-C4F

5.1.2 Type Certificate: FAA E-286

5.1.3 Limitations: 2700 rpm full throttle continuous

6. Load factors: -

7. Propeller:

7.1 Model: 1. Hartzell constant speed HC-C2YR-1BF/F7666A (only

on O-360-C1F)

Avoid continuous operations between 2000 and 2250 rpm 2. Sensenich fixed pitch 76EM8S5-0-56 or 76EM8S8-0-56 Diameter not over and under 76 in. No further reduction

permitted.

Static rpm at full throttle: Not over 2500 rpm, not under

2400 rpm

For O-360-C1F (modified) avoid continuous operation

between 2150 rpm and 2350 rpm

7.2 Type Certificate: EASA.IM.P.130 or FAA P4EA

8. Fluids:

8.1 Fuel: 100/100LL minimum grade aviation gasoline

8.2 Oil: refer to AFM

9. Fluid capacities:

9.1 Fuel: Standard Fuel Tank Total: 180,2 Litre

Usable: 162,8 Litre

Optional wing aux Tank: Total: 113,6 Litre

9.2 Oil: Maximum: 9,5 Litre

10. Air Speeds: Design Manoevring Speed V_A: 109 KIAS (125 mph)

Flap Extended Speed V_{FE} : 83 KIAS (95 mph) Maximum Structural Cruising Speed V_{NO} :128 KIAS (147 mph)

Never Exceed Speed V_{NE}:

Never Exceed Speed V_{NE}: 158 KIAS (182 mph)

11. (Reserved)

12. (Reserved)

13. Maximum Weights: Take-off 1043 kg (2300 lbs)

14. Centre of Gravity Range:

Forward limit from +40 to + 48 cm at 1043 kg from +28 to +48 cm at 680 kg or less

15. Datum:

Wing leading edge

16. (Reserved)

Issue: 07 Date: 26 July 2022

17. Levelling Means: levelling lug and mark on bottom side of right-wing root

18. Minimum Flight Crew: 1

19. Maximum Passenger Seating 1

Capacity:

20. Baggage/Cargo 77 kg at +50,8, 91 kg at +137 cm

Compartments:

21. (Reserved)

D.IV. Operating and Service Instructions

1. Airplane Flight Manual (AFM) Model M-4-180V dated 9 Jun 2005 or later approved revision

2. Maintenance Manual (MM) MM for Model M-4-180V

D.V. Notes:

1. This certification applies to serial numbers M-4-180V Series under Production Certificate 11S0

2. Additional equipment refer to AFM

Issue: 07 Date: 26 July 2022

SECTION E: MODEL M-5-180C

E.I. General

1. Data Sheet No.: IM.A.018, Issue 7

2. a) Type: M-4

b) Model: M-5-180C (4PCLM, Normal Category, FAA approved 19 Apr

1979

c) Variant:

3. Airworthiness Category: Normal Category

4. Type Certificate Holder: Maule Aerospace Technology, Inc.

2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

5. Manufacturer: Maule Aerospace Technology, Inc.

2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

6. Certification Application Date: 01 Nov 1957

7. (Reserved)

8. DGAC Certification Date 09 May 1980

E.II. <u>EASA Certification Basis</u>

1. Reference Date for determining 01 Nov 1957

the applicable requirements:

2. Airworthiness Requirements: CAR 3, Amdt 3-1 through 3-5 eff 15 May 1956 and 3.705

amended by 3-7

3. Special Conditions: None

4. Exemptions: None

5. Deviations: None

6. Equivalent Safety Findings: None

7. Requirements elected to comply: -

8. Environmental Standards: ICAO, Annex 16, Vol 1

9. (Reserved)

10. (Reserved)



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2022. All rights reserved. ISO9001 Certified. Page 19 of 73 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Issue: 07 Date: 26 July 2022

E.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Master Drawing List Model M-5-180C

2. Description: single piston engine, four-seats, steel cage construction, high

wing with conventional tail and tailwheel

3. Equipment: refer to AFM4. Dimensions: refer to AFM

5. Engine:

5.1.1 Model: Lycoming O-360-C1F

5.1.2 Type Certificate: FAA E-286

5.1.3 Limitations: For all operations 2700 rpm

6. Load factors: -

7. Propeller:

7.1 Model: Hartzell constant speed HC-C2YR-1BF/F7666A

Avoid continuous operations between 2000 and 2250 rpm

7.2 Type Certificate: EASA.IM.P.130

8. Fluids:

8.1 Fuel: 100/100LL minimum grade aviation gasoline

8.2 Oil: refer to AFM

9. Fluid capacities:

9.1 Fuel: Standard Fuel Tank Total: 163 Litre

Usable: 151,5 Litre

9.2 Oil: Maximum: 9,5 Litre

10. Air Speeds: Design Manoevring Speed V_A: 109 KIAS (125 mph)

Flap Extended Speed V_{FE} : 78 KIAS (90 mph) Maximum Structural Cruising Speed V_{NO} :126 KIAS (145 mph)

Never Exceed Speed V_{NE}: 156 KIAS (180 mph)

11. (Reserved)

12. (Reserved)

13. Maximum Weights: Take-off 1043 kg (2300 lbs)

14. Centre of Gravity Range: Forward limit from +42 to + 52 cm at 1043 kg

from +32 to +52 cm at 726kg or less

Issue: 07 Date: 26 July 2022

15. Datum: Wing leading edge

16. (Reserved)

17. Levelling Means: levelling lug and mark on bottom side of right-wing root

18. Minimum Flight Crew: 1

19. Maximum Passenger Seating 3

Capacity:

20. Baggage/Cargo 77 kg at +50,8, 158 kg at +107, 113 kg at +178

Compartments:

21. (Reserved)

E.IV. Operating and Service Instructions

1. Airplane Flight Manual (AFM) Model M-5-180C dated 10/20/70 or later approved revision

2. Maintenance Manual (MM) MM for Model M-5-180C

E.V. Notes:

- 1. This certification applies to serial numbers M-5-180C Series under Production Certificate 11S0
- 2. Additional equipment refer to AFM

Issue: 07 Date: 26 July 2022

SECTION F: MODEL M-5-210C

F.I. <u>General</u>

1. Data Sheet No.: IM.A.018, Issue 6

2. a) Type: M-4

b) Model: M-5-210C (4PCLM, Normal Category, FAA approved 28 Dec

1973

c) Variant:

3. Airworthiness Category: Normal Category

4. Type Certificate Holder: Maule Aerospace Technology, Inc.

2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

5. Manufacturer: Maule Aerospace Technology, Inc.

2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

6. Certification Application Date: 01 Nov 1957

7. (Reserved)

8. LBA Certification Date 28 Jun 1976

F.II. <u>EASA Certification Basis</u>

1. Reference Date for determining the applicable requirements: 01 Nov 1957

2. Airworthiness Requirements: CAR 3, Amdt 3-1 through 3-5 eff 15 May 1956 and 3.705

amended by 3-7

Special Conditions: None
 Exemptions: None
 Deviations: None
 Equivalent Safety Findings: None
 Requirements elected to comply: -

8. Environmental Standards: ICAO, Annex 16, Vol 1

9. (Reserved)

10. (Reserved)

F.III. <u>Technical Characteristics and Operational Limitations</u>

1. Type Design Definition: Master Drawing List Model M-5-210C

2. Description: single piston engine, four-seats, steel cage construction, high

wing with conventional tail and tailwheel

3. Equipment: refer to AFM4. Dimensions: refer to AFM

5. Engine:



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2022. All rights reserved. ISO9001 Certified. Page 22 of 73 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Issue: 07 Date: 26 July 2022

5.1.1 Model: Lycoming IO-360-D

5.1.2 Type Certificate: FAA 1E10

5.1.3 Limitations: For all operations 2800 rpm

6. Load factors:

7. Propeller:

7.1 Model: Mc Cauley constant speed D2A34C67N/S76C-2

Diameter 74 in., no further reduction permitted

7.2 Type Certificate: FAA P7EA

8. Fluids:

8.1 Fuel: 100/100LL minimum grade aviation gasoline

8.2 Oil: refer to AFM

9. Fluid capacities:

9.1 Fuel: Standard Fuel Tank Total: 163 Litre

Usable: 151,5 Litre

9.2 Oil: Maximum: 8,3 Litre

Minimum: 5,8 Litre

10. Air Speeds: Design Manoevring Speed V_A: 109 KIAS (125 mph)

Flap Extended Speed V_{FE} : 82 KIAS (94 mph) Maximum Structural Cruising Speed V_{NO} :126 KIAS (145 mph) Never Exceed Speed V_{NE} : 156 KIAS (180 mph)

11. (Reserved)

12. (Reserved)

13. Maximum Weights: Take-off 1043 kg (2300 lbs)

14. Centre of Gravity Range:

Forward limit from +42 to + 52 cm at 1043 kg

from +32 to +52 cm at 726kg or less

15. Datum:

Wing leading edge

16. (Reserved)

17. Levelling Means: levelling lug and mark on bottom side of right wing root

18. Minimum Flight Crew: 1

19. Maximum Passenger Seating

Capacity:

20. Baggage/Cargo 77 kg at +50,8, 158 kg at +107, 113 kg at +178

Compartments:

21. (Reserved)



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2022. All rights reserved. ISO9001 Certified. Page 23 of 73 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Issue: 07 Date: 26 July 2022

F.IV. Operating and Service Instructions

1. Airplane Flight Manual (AFM) Model M-5-210C dated 28 Dec 1973 or later approved

revision

2. Maintenance Manual (MM) MM for Model M-5-210C

F.V. Notes:

1. This certification applies to serial numbers M-5-210C, 6001C and up, under Production Certificate 11S0

2. Additional equipment refer to AFM

Issue: 07

SECTION G: MODEL M-5-235C

G.I. General

1. Data Sheet No.: IM.A.018, Issue 7

2. a) Type: M-4

b) Model: M-5-235C (4PCLM, Normal Category, FAA approved 6 Apr

1976

c) Variant:

3. Airworthiness Category: Normal Category

4. Type Certificate Holder:

Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

5. Manufacturer:

Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

6. Certification Application Date: 01 Nov 1957

7. (Reserved)

8. LFV Certification Date 28 Jun 1976

G.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements: 01 Nov 1957

2. Airworthiness Requirements: CAR 3, Amdt 3-1 through 3-5 eff 15 May 1956 and 3.705

amended by 3-7

3. Special Conditions: None

4. Exemptions: None

5. Deviations: None

6. Equivalent Safety Findings: None

7. Requirements elected to comply: -

8. Environmental Standards: ICAO, Annex 16, Vol 1

9. (Reserved)

10. (Reserved)



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2022. All rights reserved. ISO9001 Certified.Page 25 of 73 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Issue: 07

G.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Master Drawing List Model M-5-235C

2. Description: single piston engine, four-seats, steel cage construction, high

wing with conventional tail and tailwheel

3. Equipment: refer to AFM4. Dimensions: refer to AFM

5. Engine:

5.1.1 Model: Lycoming O-540-J1A5D, O-540-J3A5, IO-540-W1A5D,

IO-540-W1A5 or O-540-B4B5

5.1.2 Type Certificate: FAA E-295 or 1E4

5.1.3 Limitations: For all operation 2400 rpm (O-540-J/IO-540-W)

For all operation 2575 rpm (O-540-B)

6. Load factors:

7. Propeller: (see Notes)

7.1 Model:

Hartzell constant speed HC-C2YR-1BF/F8468A-6R or -3R Hartzell

constant speed HC-C2YR-1BF/F8477D-6

Hartzell constant speed HC-C3YR-1RF/F7693(F)-() McCauley constant speed B3D32C414-C/G-82NDA-2 o -4 McCauley

constant speed B3D37C224-B/G-90RA-9

7.2 Type Certificate: EASA.IM.P.130 or FAA P25EA or FAA P58GL

8. Fluids:

8.1 Fuel: 100/100LL minimum grade aviation gasoline

8.2 Oil: refer to AFM

9. Fluid capacities:

9.1 Fuel: Standard Fuel Tank Total: 163 Litre

Usable: 151,5 Litre

9.2 Oil: IO-540: Maximum: 7,8 Litre, Minimum: 5,0 Litre

O-540: Maximum: 11,8 Litre, Minimum: 8,9 Litre

10. Air Speeds: Design Manoevring Speed V_A: 109 KIAS (125 mph)

Flap Extended Speed V_{FE}: 82 KIAS (94 mph)

Maximum Structural Cruising Speed V_{NO}:126 KIAS (145 mph)

Never Exceed Speed V_{NE}: 156 KIAS (180 mph)

11. (Reserved)

12. (Reserved)



Issue: 07

13. Maximum Weights: Take-off 1043 kg (2300 lbs)

14. Centre of Gravity Range: Forward limit from +42 to + 52 cm at 1043 kg

from +32 to +52 cm at 726kg or less

15. Datum: Wing leading edge

16. (Reserved)

17. Levelling Means: levelling lug and mark on bottom side of right-wing root

18. Minimum Flight Crew: 1

19. Maximum Passenger Seating

Capacity:

20. Baggage/Cargo 77 kg at +50,8, 158 kg at +107, 113 kg at +178

Compartments:

21. (Reserved)

G.IV. Operating and Service Instructions

1. Airplane Flight Manual (AFM)

Model M-5-235C or later revision as defined

Model M-5-235C, s/n 7001C-7026C, 7028C, 7030C-7032C, 7037C, AFM dated 4/6/76, with expanded C.G. limits per Maule SL#36, rev. B dated 11/6/80;

s/n 7027C, 7029C, 7033C-7036C, 7038C-7248C, 7250C-7320C, 7322C-7346C, 7348C, 7349C, AFM dated 4/6/76 with rev. B dated 11/6/80;

s/n 7350C, 7352C-7355C, 7357C-7362C, 7364C-7367C, AFM dated 4/6/76 with rev. C dated 4/22/81; s/n 7321C, 7347C, 7351C, 7363C, 7369C-7373C, 7375C, 7445C, 7451C, 7460C, 7467C, AFM dated 8/12/81 with rev. A dated 5/1/84.

Note: AFMs dated 4/6/76 must have AFM Supplement #13 attached. AFM Dated 1/13/86 for s/n 7470C, 7478C-7480C, 7484C-7487C, 7515C

2. Maintenance Manual (MM) MM for Model M-5-235C

G.V. Notes:

- This certification applies to serial numbers M-5-235C, 6001C and up, under Production Certificate 11S0
- 2. Additional equipment refer to AFM



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2022. All rights reserved. ISO9001 Certified.Page 27 of 73 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Issue: 07

3. Propeller and Propeller limits:

Hartzell constant speed model HC-C2YR-1BF/F8468A-6R or -3R

(-3R use with 7:00 tires or larger/26 psi minimum air pressure.)

Hartzell constant speed 2 blade model HC-C2YR-1BF/F8477D-6

(Use with O-540-J3A5 or O-540-B4B5 engine only)

Hartzell constant speed 3 blade model HC-C3YR-1RF/F7693(F)-()

(Use with O-540-J3A5, O-540-B4B5, IO-540-W1A5D or IO-540-W1A5 engines only)

Diameter: -3R: Not over 81 in.; not under 77 in.

-6R: Not over 78 in.; not under 77 in.

F8477D-6 or F7693(F)-(): Not over 78 in.; not under 76 in.

Pitch settings at 30" sta.:

-3R: low 16 $^{\circ}$ +1 $^{\circ}$ high 30 $^{\circ}$ +1 $^{\circ}$ (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 13.8° +1° high 30° +1° (O-540-B4B5 engine)

-6R: low 16.7º +1º high 30º +1º (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 14.3° +1° high 30° +1° (O-540-B4B5 engine)

F8477D-6: low 16.7º +1º high 30º +1º (O-540-J3A5 engine)

low 14.3° +1° high 30° +1° (O-540-B4B5 engine)

F7693(F)-(): low 14.2º +1º high 31º +1º (O-540-J3A5, IO-540-W1A5 or IO-540-W1A5D engines)

low 12.5° +1° high 31° +1° (O-540-B4B5 engine)

-6R: Do not exceed 23 in. M.P. below 2050 rpm.

McCauley constant speed 3-blade model B3D32C414-C/G-82NDA-2 or -4*

(-2 use with 7:00 tires or larger)

McCauley constant speed 2-blade model B2D37C224-B/G-90RA-9**

(-9 use with 7:00 tires or larger/26 psi minimum air pressure.)

Diameter: -2: not over 80 in.; not under 76 in.

-4: not over 78 in.; not under 76 in.

-9: not over 81 in.; not under 78 in.

Pitch settings at 30" sta.:

-2 (80"): low 15.0° +0.2° high 30.0° +0.5° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 13.3° +0.2° high 30.0° +0.5° (O-540-B4B5 engine)

-4 (78"): low 15.7° +0.2° high 30.0° +0.5° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 14.0° +0.2° high 30.0° +0.5° (O-540-B4B5 engine)

-9 (81"): low 14.7° +0.2° high 24.6° +0.5° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 13.3° +0.2° high 24.6° +0.5° (O-540-B4B5 engine)

Spinner: Hartzell spinner assembly A2298-2 (use with Hartzell propeller only)

McCauley spinner assembly D-6240 (use with McCauley 3-blade propeller only)

McCauley spinner assembly D-6195 (use with McCauley 2-blade propeller only)

Governor: Woodward F210681*** or B210761 (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 only);

E210761 (O-540-B4B5 only)

McCauley C290D3(X)/T30 or DC290D1(X)/T14 (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 only);

C290D3(X)/T31 or DC290D1(X)/T15 (O-540-B4B5 only)



Issue: 07

* McCauley B3D32C414-C/G-82NDA-4 not approved for installation on M-5-235C with O-540-J1A5D,

O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines.

** McCauley B2D37C224-B/G-90RA-9 not approved for installation on M-5-235C, M-6-235, M-7-235, MX-7-235

with O-540-B4B5 engines.

*** For Woodward Governor F210681 on M-5-235C refer to AD#81-25-01 for eligible serial numbers.



Issue: 07

SECTION H: MODEL M-6-235

H.I. General

1. Data Sheet No.: IM.A.018, Issue 7

2. a) Type: M-4

b) Model: M-6-235 (4PCLM, Normal Category, FAA approved 25 Jun

1981

c) Variant:

3. Airworthiness Category: Normal Category

4. Type Certificate Holder: Maule Aerospace Technology, Inc.

2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

5. Manufacturer: Maule Aerospace Technology, Inc.

2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

6. Certification Application Date: 01 Nov 1957

7. (Reserved)

8. LBA Certification Date 04 May 1988

H.II. <u>EASA Certification Basis</u>

1. Reference Date for determining the

applicable requirements:

01 Nov 1957

2. Airworthiness Requirements: CAR 3, Amdt 3-1 through 3-5 eff 15 May 1956 and 3.705

amended by 3-7, additional FAR 23.955 instead of CAR3 .435

3. Special Conditions: None

4. Exemptions: None

5. Deviations: None

6. Equivalent Safety Findings: None

7. Requirements elected to comply: -

8. Environmental Standards: ICAO, Annex 16, Vol 1

9. (Reserved)

10. (Reserved)



Issue: 07

H.III. <u>Technical Characteristics and Operational Limitations</u>

1. Type Design Definition: Master Drawing List Model M-6-235

2. Description: single piston engine, four-seats (optional five-seats), steel cage

construction, high wing with conventional tail and tailwheel

3. Equipment: refer to AFM4. Dimensions: refer to AFM

5. Engine:

5.1.1 Model: Lycoming O-540-J1A5D, O-540-J3A5, IO-540-W1A5D,

IO-540-W1A5 or O-540-B4B5

5.1.2 Type Certificate: FAA E-295 or 1E4

5.1.3 Limitations: For all operation 2400 rpm (O-540-J/IO-540-W)

For all operation 2575 rpm (O-540-B)

6. Load factors:

7. Propeller:

7.1 Model: Hartzell constant speed HC-C2YR-1BF/F8468A-6R or -3R Hartzell

constant speed HC-C2YR-1BF/F8477D-6

Hartzell constant speed HC-C3YR-1RF/F7693(F)-() McCauley

constant speed B3D32C414-C/G-82NDA-2 o -4
McCauley constant speed B3D37C224-B/G-90RA-9

7.2 Type Certificate: EASA.IM.P.130 or FAA P25EA or FAA P58GL

8. Fluids:

8.1 Fuel: 100/100LL minimum grade aviation gasoline

8.2 Oil: refer to AFM

9. Fluid capacities:

9.1 Fuel: Standard Fuel Tank Total: 163 Litre

Usable: 151,5 Litre

9.2 Oil: IO-540: Maximum: 7,8 Litre, Minimum: 5,0 Litre

O-540: Maximum: 11,8 Litre, Minimum: 8,9 Litre

10. Air Speeds: Design Manoevring Speed V_A: 109 KIAS (125 mph)

Flap Extended Speed V_{FE} : 82 KIAS (94 mph) Maximum Structural Cruising Speed V_{NO} :126 KIAS (145 mph)

Never Exceed Speed V_{NE}: 156 KIAS (180 mph)

11. (Reserved)

12. (Reserved)



Issue: 07

13. Maximum Weights: Take-off 1134 kg (2500 lbs)

14. Centre of Gravity Range: Forward limit from +38 to + 52 cm at 1134 kg

from +28 to +52 cm at 771kg or less

15. Datum: Wing leading edge

16. (Reserved)

17. Levelling Means: levelling lug and mark on bottom side of right-wing root

18. Minimum Flight Crew: 1

19. Maximum Passenger Seating 3 (optional 4)

Capacity:

20. Baggage/Cargo 77 kg at +50,8, 158 kg at +107, 113 kg at +178

Compartments:

21. (Reserved)

H.IV. Operating and Service Instructions

1. Airplane Flight Manual (AFM)

Model M-6-235, AFM dated 6/25/81, rev. I dated 6/10/94 for s/n 7249C, 7356C, 7379C-7465C; AFM dated 5/23/85, rev. B dated 6/10/94 for s/n 7466C, 7468C-7473C; AFM dated 2/19/87, rev. C dated 3/3/95 for s/n 7474C and up

2. Maintenance Manual (MM) MM for Model M-6-235

H.V. Notes:

- 1. This certification applies to serial numbers M-6-235, s/n 7249C, 7356C, 7379C-7444C, 7446C-7450C, 7452C-7459C, 7461C-7466C, 7468C, 7469C, 7471C-7475C, 7488C-7514C, 7516C-7519C and up, under Production Certificate 11S0
- 2. Additional equipment refer to AFM
- 3. Propeller and Propeller limits:

Hartzell constant speed model HC-C2YR-1BF/F8468A-6R or -3R (-3R use with 7:00 tires or larger/26 psi minimum air pressure.) Hartzell constant speed 2 blade model HC-C2YR-1BF/F8477D-6

(Use with O-540-J3A5 or O-540-B4B5 engine only)



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2022. All rights reserved. ISO9001 Certified.Page 32 of 73 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Issue: 07

Hartzell constant speed 3 blade model HC-C3YR-1RF/F7693(F)-()

(Use with O-540-J3A5, O-540-B4B5, IO-540-W1A5D or IO-540-W1A5 engines only)

Diameter: -3R: Not over 81 in.; not under 77 in.

-6R: Not over 78 in.; not under 77 in.

F8477D-6 or F7693(F)-(): Not over 78 in.; not under 76 in.

Pitch settings at 30" sta.:

-3R: low 16º +1º high 30º +1º (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 13.8° +1° high 30° +1° (O-540-B4B5 engine)

-6R: low 16.7º +1º high 30º +1º (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 14.3º +1º high 30º +1º (O-540-B4B5 engine)

F8477D-6: low 16.7º +1º high 30º +1º (O-540-J3A5 engine)

low 14.3º +1º high 30º +1º (O-540-B4B5 engine)

F7693(F)-(): low 14.2º +1º high 31º +1º (O-540-J3A5, IO-540-W1A5 or IO-540-W1A5D engines)

low 12.5° +1° high 31° +1° (O-540-B4B5 engine)

-6R: Do not exceed 23 in. M.P. below 2050 rpm.

McCauley constant speed 3-blade model B3D32C414-C/G-82NDA-2 or -4*

(-2 use with 7:00 tires or larger)

McCauley constant speed 2-blade model B2D37C224-B/G-90RA-9**

(-9 use with 7:00 tires or larger/26 psi minimum air pressure.)

Diameter: -2: not over 80 in.; not under 76 in.

-4: not over 78 in.; not under 76 in.

-9: not over 81 in.; not under 78 in.

Pitch settings at 30" sta.:

-2 (80"): low 15.0° +0.2° high 30.0° +0.5° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 13.3º +0.2º high 30.0º +0.5º (O-540-B4B5 engine)

-4 (78"): low 15.7° +0.2° high 30.0° +0.5° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 14.0º +0.2º high 30.0º +0.5º (O-540-B4B5 engine)

-9 (81"): low 14.7º +0.2º high 24.6º +0.5º (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 13.3° +0.2° high 24.6° +0.5° (O-540-B4B5 engine)

Spinner: Hartzell spinner assembly A2298-2 (use with Hartzell propeller only)

McCauley spinner assembly D-6240 (use with McCauley 3-blade propeller only)

McCauley spinner assembly D-6195 (use with McCauley 2-blade propeller only)

Governor: Woodward F210681*** or B210761 (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 only);

E210761 (O-540-B4B5 only)

McCauley C290D3(X)/T30 or DC290D1(X)/T14 (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 only);



Issue: 07

C290D3(X)/T31 or DC290D1(X)/T15 (O-540-B4B5 only)

* McCauley B3D32C414-C/G-82NDA-4 not approved for installation on M-5-235C with O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines.

- ** McCauley B2D37C224-B/G-90RA-9 not approved for installation on M-5-235C, M-6-235, M-7-235, MX-7-235 with O-540-B4B5 engines.
- *** For Woodward Governor F210681 on M-5-235C refer to AD#81-25-01 for eligible serial numbers.

Issue: 07

SECTION J: MODEL M-7-235

J.I. General

1. Data Sheet No.: IM.A.018, Issue 7

2. a) Type: M-4

b) Model: M-7-235 (5PCLM, Normal Category, FAA approved 09 Nov

1983

c) Variant:

3. Airworthiness Category: Normal Category

4. Type Certificate Holder:

Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

5. Manufacturer:

Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

6. Certification Application Date: 01 Nov 1957

7. (Reserved)

8. LBA Certification Date 04 May 1988

J.II. <u>EASA Certification Basis</u>

 Reference Date for determining the applicable requirements:
 01 Nov 1957

2. Airworthiness Requirements: CAR 3, Amdt 3-1 through 3-5 eff 15 May 1956 and 3.705

amended by 3-7, additional FAR 23.955 instead of CAR3 .435 $\,$

3. Special Conditions: None

4. Exemptions: None

5. Deviations: None

6. Equivalent Safety Findings: None

7. Requirements elected to comply: -

8. Environmental Standards: ICAO, Annex 16, Vol 1

9. (Reserved)

10. (Reserved)



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2022. All rights reserved. ISO9001 Certified.Page 35 of 73 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Issue: 07

J.III. <u>Technical Characteristics and Operational Limitations</u>

1. Type Design Definition: Master Drawing List Model M-7-235

2. Description: single piston engine, five-seats, steel cage construction, high wing

with conventional tail and tailwheel

3. Equipment: refer to AFM4. Dimensions: refer to AFM

5. Engine:

5.1.1 Model: Lycoming O-540-J1A5D, O-540-J3A5, IO-540-W1A5D,

IO-540-W1A5 or O-540-B4B5

5.1.2 Type Certificate: FAA E-295 or 1E4

5.1.3 Limitations: For all operation 2400 rpm (O-540-J/IO-540-W)

For all operation 2575 rpm (O-540-B)

6. Load factors:

7. Propeller:

7.1 Model:

Hartzell constant speed HC-C2YR-1BF/F8468A-6R or -3R Hartzell

constant speed HC-C2YR-1BF/F8477D-6

Hartzell constant speed HC-C3YR-1RF/F7693(F)-() McCauley

constant speed B3D32C414-C/G-82NDA-2 o -4

McCauley constant speed B3D37C224-B/G-90RA-9

7.2 Type Certificate: EASA.IM.P.130 or FAA P25EA or FAA P58GL

8. Fluids:

8.1 Fuel: 100/100LL minimum grade aviation gasoline

8.2 Oil: refer to AFM

9. Fluid capacities:

9.1 Fuel: Standard Fuel Tank Total: 163 Litre

Usable: 151,5 Litre

9.2 Oil: IO-540: Maximum: 7,8 Litre, Minimum: 5,0 Litre

O-540: Maximum: 11,8 Litre, Minimum: 8,9 Litre

10. Air Speeds: Design Manoevring Speed V_A: 109 KIAS (125 mph)

Flap Extended Speed V_{FE}: 82 KIAS (94 mph)

Maximum Structural Cruising Speed V_{NO}:126 KIAS (145 mph)

Never Exceed Speed V_{NE}: 156 KIAS (180 mph)



Issue: 07

11. (Reserved)

12. (Reserved)

13. Maximum Weights: Take-off 1134 kg (2500 lbs)

14. Centre of Gravity Range: Forward limit from +38 to + 52 cm at 1134 kg

from +28 to +52 cm at 771kg or less

15. Datum: Wing leading edge

16. (Reserved)

17. Levelling Means: levelling lug and mark on bottom side of right-wing root

18. Minimum Flight Crew: 1

19. Maximum Passenger Seating

Capacity:

20. Baggage/Cargo 77 kg at +50,8, 158 kg at +107, 113 kg at +178

Compartments:

21. (Reserved)

J.IV. Operating and Service Instructions

1. Airplane Flight Manual (AFM) Model M-7-235, AFM dated 11/9/83 or later approved revison

2. Maintenance Manual (MM) MM for Model M-7-235

J.V. Notes:

- 1. This certification applies to serial numbers M-7-235, s/n 4001C and up, under Production Certificate 11S0
- 2. Additional equipment refer to AFM
- 3. Propeller and Propeller limits:

Hartzell constant speed model HC-C2YR-1BF/F8468A-6R or -3R (-3R use with 7:00 tires or larger/26 psi minimum air pressure.)
Hartzell constant speed 2 blade model HC-C2YR-1BF/F8477D-6 (Use with O-540-J3A5 or O-540-B4B5 engine only)
Hartzell constant speed 3 blade model HC-C3YR-1RF/F7693(F)-() (Use with O-540-J3A5, O-540-B4B5, IO-540-W1A5D or IO-540-W1A5 engines only)

Diameter: -3R: Not over 81 in.; not under 77 in.



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2022. All rights reserved. ISO9001 Certified.Page 37 of 73 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Issue: 07

-6R: Not over 78 in.; not under 77 in.

F8477D-6 or F7693(F)-(): Not over 78 in.; not under 76 in.

Pitch settings at 30" sta.:

-3R: low 16º +1º high 30º +1º (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 13.8° +1° high 30° +1° (O-540-B4B5 engine)

-6R: low 16.7 $^{\circ}$ +1 $^{\circ}$ high 30 $^{\circ}$ +1 $^{\circ}$ (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 14.3° +1° high 30° +1° (O-540-B4B5 engine)

F8477D-6: low 16.7º +1º high 30º +1º (O-540-J3A5 engine)

low 14.3° +1° high 30° +1° (O-540-B4B5 engine)

F7693(F)-(): low 14.2º +1º high 31º +1º (O-540-J3A5, IO-540-W1A5 or IO-540-W1A5D engines)

low 12.5° +1° high 31° +1° (O-540-B4B5 engine)

-6R: Do not exceed 23 in. M.P. below 2050 rpm.

McCauley constant speed 3-blade model B3D32C414-C/G-82NDA-2 or -4*

(-2 use with 7:00 tires or larger)

McCauley constant speed 2-blade model B2D37C224-B/G-90RA-9**

(-9 use with 7:00 tires or larger/26 psi minimum air pressure.)

Diameter: -2: not over 80 in.; not under 76 in.

-4: not over 78 in.; not under 76 in.

-9: not over 81 in.; not under 78 in.

Pitch settings at 30" sta.:

-2 (80"): low 15.0° +0.2° high 30.0° +0.5° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 13.3° +0.2° high 30.0° +0.5° (O-540-B4B5 engine)

-4 (78"): low 15.7° +0.2° high 30.0° +0.5° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 14.0° +0.2° high 30.0° +0.5° (O-540-B4B5 engine)

-9 (81"): low 14.7º +0.2º high 24.6º +0.5º (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 13.3° +0.2° high 24.6° +0.5° (O-540-B4B5 engine)

Spinner: Hartzell spinner assembly A2298-2 (use with Hartzell propeller only)

McCauley spinner assembly D-6240 (use with McCauley 3-blade propeller only)

McCauley spinner assembly D-6195 (use with McCauley 2-blade propeller only)

Governor: Woodward F210681*** or B210761 (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 only);

E210761 (O-540-B4B5 only)

McCauley C290D3(X)/T30 or DC290D1(X)/T14 (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 only);

C290D3(X)/T31 or DC290D1(X)/T15 (O-540-B4B5 only)

* McCauley B3D32C414-C/G-82NDA-4 not approved for installation on M-5-235C with O-540-J1A5D.

O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines.

** McCauley B2D37C224-B/G-90RA-9 not approved for installation on M-5-235C, M-6-235, M-7-235, MX-7-235

with O-540-B4B5 engines.

*** For Woodward Governor F210681 on M-5-235C refer to AD#81-25-01 for eligible serial numbers.



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2022. All rights reserved. ISO9001 Certified.Page 38 of 73 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Issue: 07

SECTION K: MODEL M-7-235B

K.I. General

1. Data Sheet No.: IM.A.018, Issue 7

2. a) Type: M-4

b) Model: M-7-235B (5PCLM, Normal Category, FAA approved 14 Oct

1993

c) Variant:

3. Airworthiness Category: Normal Category

4. Type Certificate Holder:

Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

5. Manufacturer:

Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

6. Certification Application Date: 01 Nov 1957

7. (Reserved)

8. ENAC Certification Date 07 Aug 2003

K.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements: 01 Nov 1957

2. Airworthiness Requirements: CAR 3, Amdt 3-1 through 3-5 eff 15 May 1956 and 3.705

amended by 3-7, additional FAR 23.955 instead of CAR3 .435

3. Special Conditions: None

4. Exemptions: None

5. Deviations: None

6. Equivalent Safety Findings: None

7. Requirements elected to comply: -

8. Environmental Standards: ICAO, Annex 16, Vol 1

9. (Reserved)

10. (Reserved)



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2022. All rights reserved. ISO9001 Certified.Page 39 of 73 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Issue: 07

K.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Master Drawing List Model M-7-235B

2. Description: single piston engine, five-seats, steel cage construction, high wing

with conventional tail and tailwheel

The model M-7-235B is certified in the "Floatplane" version only

3. Equipment: refer to AFM4. Dimensions: refer to AFM

5. Engine:

5.1.1 Model: Lycoming O-540-J1A5D, O-540-J3A5, IO-540-W1A5D,

IO-540-W1A5 or O-540-B4B5

5.1.2 Type Certificate: FAA E-295 or 1E4

5.1.3 Limitations: For all operation 2400 rpm (O-540-J/IO-540-W)

For all operation 2575 rpm (O-540-B)

6. Load factors: -

7. Propeller:

7.1 Model:

Hartzell constant speed HC-C2YR-1BF/F8468A-6R or -3R Hartzell

constant speed HC-C2YR-1BF/F8477D-6

Hartzell constant speed HC-C3YR-1RF/F7693(F)-() McCauley

constant speed B3D32C414-C/G-82NDA-2 o -4

McCauley constant speed B3D37C224-B/G-90RA-9

7.2 Type Certificate: EASA.IM.P.130 or FAA P25EA or FAA P58GL

8. Fluids:

8.1 Fuel: 100/100LL minimum grade aviation gasoline

8.2 Oil: refer to AFM

9. Fluid capacities:

9.1 Fuel: Standard Fuel TankMain Tanks: 162.7 lt (43 US Gal),

(151.5 lt (40 US Gal) usable), in two 81.3 lt (21.5 US Gal) wing tanks at +.61 m (+24"), or 180.1 lt (47.6 US Gal), (162.7 lt (43 US Gal) usable), in two 90.0 (23.8US Gal),

wing tanks at +.61 m (+24").

Optional Wing Auxiliary Tanks: 113.5 lt (30 US Gal) (113.5 lt (30 US Gal) usable), in two 45.0 lt (15.0 US Gal) at +.61 m (+24"), or 159.0 (42 US Gal) (159.0 (42 US Gal) usable), in two 79.5 lt (21 US Gal) at +.61 m (+24")

See Note 3 for undrainable fluids

9.2 Oil: IO-540: Maximum: 7,8 Litre, Minimum: 5,0 Litre



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2022. All rights reserved. ISO9001 Certified.Page 40 of 73 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Issue: 07

O-540: Maximum: 11,8 Litre, Minimum: 8,9 Litre

10. Air Speeds: Design Manoevring Speed V_A: 109 KIAS (125 mph)

Flap Extended Speed V_{FE}: 82 KIAS (94 mph)

Maximum Structural Cruising Speed V_{NO}:128 KIAS (147 mph)

Never Exceed Speed V_{NE}: 142 KIAS (164 mph)

11. (Reserved)

12. (Reserved)

13. Maximum Weights: Take-off 1247 kg (2750 lbs)

14. Centre of Gravity Range: Floatplane: EDO 797-2500 amphibious or 248B2440 Floats

(+14.0) to (+19.0) at 2750 lbs.

(+12.5) to (+19.0) at 2400 lbs. or less Wipline 3000 amphibious Floats (+14.0) to (+19.0) at 2750 lbs. (+12.0) to (+19.0) at 2100 lbs. or less

15. Datum: Wing leading edge

16. (Reserved)

17. Levelling Means: levelling lug and mark on bottom side of right wing root

18. Minimum Flight Crew: 1

19. Maximum Passenger Seating 4

Capacity:

20. Baggage/Cargo 77 kg at +50,8, 158 kg at +107, 113 kg at +178

Compartments:

21. (Reserved)

K.IV. Operating and Service Instructions

1. Airplane Flight Manual (AFM)

Model **M-7-235B**, AFM dated 14 Oct 1993, Rev E dated 24 May 2002 or later approved revision including AFM-S No 2 (EDO model 797-2550 Amphibious Floats installation in accordance with Maule drawing 9139A) dated 28 September 1995, Rev. A dated 19 August 2002 or later approved revision

including AFM-S No 9 (Wipline model 3000 Amphibious Floats installation in accordance with Maule drawing 9188A) dated 17 May 1999, Rev. A dated 19 August 2002 or later approved revision



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2022. All rights reserved. ISO9001 Certified.Page 41 of 73 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Issue: 07

2. Maintenance Manual (MM) MM for Model M-7-235B

K.V. Notes:

1. This certification applies to serial numbers M-7-235B, 23001C and up, under Production Certificate 11S0

- 2. Additional equipment refer to AFM
- 3. Certified empty weight and corresponding center of gravity location must include undrainable fluids:

fuel 8.16 Kg (18 lbs) (at +.60 m (+24")) oil 2.72 Kg (6 lbs) (at -.86 m (-34"))

- 4. Float installation requires the installation of wing tip mounted anti-collision light system in accordance with Maule Drawing 7045F for night flight.
- 5. Float installation requires structural modifications to be incorporated in accordance with Maule Drawing 9001F, Sheet 1.
- 6. For Placards see Airplane Flight Manual and Airplane Flight Manual Supplement no 2 or 9.
- 7. Propeller and Propeller limits:

Hartzell constant speed model HC-C2YR-1BF/F8468A-6R or -3R

(-3R use with 7:00 tires or larger/26 psi minimum air pressure.)

Hartzell constant speed 2 blade model HC-C2YR-1BF/F8477D-6

(Use with O-540-J3A5 or O-540-B4B5 engine only)

Hartzell constant speed 3 blade model HC-C3YR-1RF/F7693(F)-()

(Use with O-540-J3A5, O-540-B4B5, IO-540-W1A5D or IO-540-W1A5 engines only)

Diameter: -3R: Not over 81 in.; not under 77 in.

-6R: Not over 78 in.; not under 77 in.

F8477D-6 or F7693(F)-(): Not over 78 in.; not under 76 in.

Pitch settings at 30" sta.:

-3R: low 16º +1º high 30º +1º (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 13.89 +19 high 309 +19 (O-540-B4B5 engine)

-6R: low 16.7º +1º high 30º +1º (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 14.3° +1° high 30° +1° (O-540-B4B5 engine)

F8477D-6: low 16.7º +1º high 30º +1º (O-540-J3A5 engine)

low 14.3° +1° high 30° +1° (O-540-B4B5 engine)

F7693(F)-(): low 14.2° +1° high 31° +1° (O-540-J3A5, IO-540-W1A5 or IO-540-W1A5D engines)

low 12.5° +1° high 31° +1° (O-540-B4B5 engine)

-6R: Do not exceed 23 in. M.P. below 2050 rpm.

McCauley constant speed 3-blade model B3D32C414-C/G-82NDA-2 or -4*

(-2 use with 7:00 tires or larger)

McCauley constant speed 2-blade model B2D37C224-B/G-90RA-9**

(-9 use with 7:00 tires or larger/26 psi minimum air pressure.)

Diameter: -2: not over 80 in.; not under 76 in.



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2022. All rights reserved. ISO9001 Certified.Page 42 of 73 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Issue: 07

-4: not over 78 in.; not under 76 in.

-9: not over 81 in.; not under 78 in.

Pitch settings at 30" sta.:

-2 (80"): low 15.0° +0.2° high 30.0° +0.5° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 13.3° +0.2° high 30.0° +0.5° (O-540-B4B5 engine)

-4 (78"): low 15.7º +0.2º high 30.0º +0.5º (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 14.0° +0.2° high 30.0° +0.5° (O-540-B4B5 engine)

-9 (81"): low 14.7° +0.2° high 24.6° +0.5° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 13.3° +0.2° high 24.6° +0.5° (O-540-B4B5 engine)

Spinner: Hartzell spinner assembly A2298-2 (use with Hartzell propeller only)

McCauley spinner assembly D-6240 (use with McCauley 3-blade propeller only)

McCauley spinner assembly D-6195 (use with McCauley 2-blade propeller only)

Governor: Woodward F210681*** or B210761 (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 only);

E210761 (O-540-B4B5 only)

McCauley C290D3(X)/T30 or DC290D1(X)/T14 (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 only);

C290D3(X)/T31 or DC290D1(X)/T15 (O-540-B4B5 only)

- * McCauley B3D32C414-C/G-82NDA-4 not approved for installation on M-5-235C with O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines.
- ** McCauley B2D37C224-B/G-90RA-9 not approved for installation on M-5-235C, M-6-235, M-7-235, MX-7-235 with O-540-B4B5 engines.
- *** For Woodward Governor F210681 on M-5-235C refer to AD#81-25-01 for eligible serial numbers.

Issue: 07

SECTION L: MODEL M-7-235C

L.I. General

1. Data Sheet No.: IM.A.018, Issue 7

2. a) Type: M-4

b) Model: M-7-235C (5PCLM, Normal Category, FAA approved 10 Oct

1995

c) Variant:

3. Airworthiness Category: Normal Category

4. Type Certificate Holder:

Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

5. Manufacturer:

Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

6. Certification Application Date: 01 Nov 1957

7. (Reserved)

8. CAA-Cz Certification Date 07 Sep 2003

L.II. <u>EASA Certification Basis</u>

 Reference Date for determining the applicable requirements:
 01 Nov 1957

2. Airworthiness Requirements: CAR 3, Amdt 3-1 through 3-5 eff 15 May 1956 and 3.705

amended by 3-7, additional FAR 23.955 instead of CAR3 .435 $\,$

3. Special Conditions: None

4. Exemptions: None

5. Deviations: None

6. Equivalent Safety Findings: None

7. Requirements elected to comply: -

8. Environmental Standards: ICAO, Annex 16, Vol 1

9. (Reserved)

10. (Reserved)



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2022. All rights reserved. ISO9001 Certified.Page 44 of 73 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Issue: 07

L.III. <u>Technical Characteristics and Operational Limitations</u>

1. Type Design Definition: Master Drawing List Model M-7-235C

2. Description: single piston engine, five-seats, steel cage construction, high wing

with conventional tail and tailwheel

3. Equipment: refer to AFM4. Dimensions: refer to AFM

5. Engine:

5.1.1 Model: Lycoming O-540-J1A5D, O-540-J3A5, IO-540-W1A5D,

IO-540-W1A5 or O-540-B4B5

5.1.2 Type Certificate: FAA E-295 or 1E4

5.1.3 Limitations: For all operation 2400 rpm (O-540-J/IO-540-W)

For all operation 2575 rpm (O-540-B)

6. Load factors: -

7. Propeller:

7.1 Model:

Hartzell constant speed HC-C2YR-1BF/F8468A-6R or -3R Hartzell

constant speed HC-C2YR-1BF/F8477D-6

Hartzell constant speed HC-C3YR-1RF/F7693(F)-() McCauley

constant speed B3D32C414-C/G-82NDA-2 o -4

McCauley constant speed B3D37C224-B/G-90RA-9

7.2 Type Certificate: EASA.IM.P.130 or FAA P25EA or FAA P58GL

8. Fluids:

8.1 Fuel: 100/100LL minimum grade aviation gasoline

8.2 Oil: refer to AFM

9. Fluid capacities:

9.1 Fuel: Standard Fuel TankMain Tanks: 162.7 lt (43 US Gal),

(151.5 lt (40 US Gal) usable), in two 81.3 lt (21.5 US Gal) wing tanks at +.61 m (+24"), or 180.1 lt (47.6 US Gal), (162.7 lt (43 US Gal) usable), in two 90.0 (23.8US Gal),

wing tanks at +.61 m (+24").

Optional Wing Auxiliary Tanks: 113.5 lt (30 US Gal) (113.5 lt (30 US Gal) usable), in two 45.0 lt (15.0 US Gal) at +.61 m (+24"), or 159.0 (42 US Gal) (159.0 (42 US Gal) usable), in two 79.5 lt (21 US Gal) at +.61 m (+24")

See Note 3 for undrainable fluids



Issue: 07

9.2 Oil: 10-540: Maximum: 7,8 Litre, Minimum: 5,0 Litre

O-540: Maximum: 11,8 Litre, Minimum: 8,9 Litre

10. Air Speeds: Design Manoevring Speed V_A: 109 KIAS (125 mph)

Flap Extended Speed V_{FE}: 82 KIAS (94 mph)

Maximum Structural Cruising Speed V_{NO}:128 KIAS (147 mph)

Never Exceed Speed V_{NE}: 142 KIAS (164 mph)

11. (Reserved)

12. (Reserved)

13. Maximum Weights: Take-off 1134 kg (2500 lbs)

14. Centre of Gravity Range: Forward limit from +38 to + 52 cm at 1134 kg

from +28 to +52 cm at 771 kg or less

15. Datum: Wing leading edge

16. (Reserved)

17. Levelling Means: levelling lug and mark on bottom side of right-wing root

18. Minimum Flight Crew: 1

19. Maximum Passenger Seating 4

Capacity:

20. Baggage/Cargo 45 kg at +50,8, 79 kg at +107, 57 kg at +182

Compartments:

21. (Reserved)

L.IV. Operating and Service Instructions

1. Airplane Flight Manual (AFM) Model M-7-235C, AFM dated 10 Oct 1995, Rev. C 20 May

2002 or later approved revision

2. Maintenance Manual (MM) MM for Model M-7-235C

Issue: 07

L.V. Notes:

1. This certification applies to serial numbers M-7-235C, s/n 25001C and up, under Production Certificate 11S0

- 2. Additional equipment refer to AFM
- 3. Propeller and Propeller limits: Same notes as for M-7-235B



Issue: 07

SECTION M: MODEL MT-7-235

M.I. General

1. Data Sheet No.: IM.A.018, Issue 7

2. a) Type: M-4

b) Model: MT-7-235 (5PCLM, Normal Category, FAA approved 20 Mar

1992

c) Variant:

3. Airworthiness Category: Normal Category

4. Type Certificate Holder:

Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

5. Manufacturer:

Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

6. Certification Application Date: 01

01 Nov 1957

7. (Reserved)

M.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements: 01 Nov 1957

2. Airworthiness Requirements: CAR 3, Amdt 3-1 through 3-5 eff 15 May 1956 and 3.705

amended by 3-7

3. Special Conditions: None

4. Exemptions: None

5. Deviations: None

6. Equivalent Safety Findings: None

7. Requirements elected to comply: -

8. Environmental Standards: ICAO, Annex 16, Vol 1

9. (Reserved)

10. (Reserved)



Issue: 07

M.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Master Drawing List Model MT-7-235

2. Description: single piston engine, five-seats, steel cage construction, high wing

with conventional tail and wheel configuration

3. Equipment: refer to AFM4. Dimensions: refer to AFM

5. Engine:

5.1.1 Model: Lycoming IO-540-W1A5D, IO-540-W1A5

5.1.2 Type Certificate: FAA 1E4

5.1.3 Limitations: 2400 rpm, full throttle continuous

6. Load factors: -

7. Propeller: (see Notes)

7.1 Model:

Hartzell constant speed model HC-C2YR-1BF/8468A-6R or -3R

Diameter: -3R: Not over 81 in.; not under 77 in.

-6R: Not over 78 in.; not under 77 in.

Pitch settings at 30" sta.: -3R: low 16º +1º high 30º +1º

-6R: low 16.7º +1º high 30º +1º

-6R: Do not exceed 23 in. M.P. below 2050 rpm.

McCauley constant speed model B3D32C414-C/G-82NDA-4 o -2 McCauley constant speed model B2D37C-224-B/G-90RA-9

Pitch settings at 30" sta:

-2 (80"): low 15.0° +0.2° high 30.0° +0.5° -4 (78"): low 15.7° +0.2° high 30.0° +0.5° -9 (81"): low 14.7° +0.2° high 24.6° +0.5°

Spinner: Hartzell spinner assembly A2298-2 (use with

Hartzell 2 blade propeller only)

McCauley spinner assembly D-6240 (use with

McCauley 3 blade propeller only)

McCauley spinner assembly D-6195 (use with

McCauley 2 blade propeller only)

Governor: Woodward F210681 or B210761 McCauley C290D3(X)/T30 or DC290D1(X)/T14

7.2 Type Certificate: EASA.IM.P.130 or FAA P25EA or FAA P58GL

8. Fluids:

8.1 Fuel: 100/100LL minimum grade aviation gasoline

8.2 Oil: refer to AFM

9. Fluid capacities:

9.1 Fuel: Standard Fuel Tank Total: 163 Litre

Usable: 151,5 Litre



Issue: 07

Optional Total: 180 Litre

Usable: 163 Litre

9.2 Oil: Maximum: 7,8 Litre

Minimum: 5,0 Litre

10. Air Speeds: Design Manoevring Speed V_A: 109 KIAS (125 mph)

Flap Extended Speed V_{FE}: 82 KIAS (94 mph)

Maximum Structural Cruising Speed V_{NO}:126 KIAS (145 mph)

Never Exceed Speed V_{NE}: 156 KIAS (180 mph)

11. (Reserved)

12. (Reserved)

13. Maximum Weights: Take-off 1134 kg (2500 lbs)

14. Centre of Gravity Range: Forward limit from +38 to + 50,8 cm at 1134 kg

from +30,5 to +50,8 cm at 816kg or less

15. Datum: Wing leading edge

16. (Reserved)

17. Levelling Means: levelling lug and mark on bottom side of right-wing root

18. Minimum Flight Crew: 1

19. Maximum Passenger Seating 4

Capacity:

20. Baggage/Cargo 77 kg at +50,8, 158 kg at +107, 113 kg at +178

Compartments:

21. (Reserved)

M.IV. Operating and Service Instructions

1. Airplane Flight Manual (AFM) Model MT-7-235 dated 20 Mar 1992 or later revision

2. Maintenance Manual (MM) MM for Model MT-7-235

Issue: 07

M.V. Notes:

1. This certification applies to serial numbers MT-7-235, 18001C and up, under Production Certificate 11S0

2. Additional equipment refer to AFM



Issue: 07

SECTION N: MODEL MX-7-160

N.I. General

1. Data Sheet No.: IM.A.018, Issue 7

2. a) Type: M-4

b) Model: MX-7-160

c) Variant: MX-7-160 (4PCLM, Normal Category, FAA approved 13 Nov

1992

MXT-7-160 (4PCLM, Normal Category, FAA approved 13 Nov 1992, same as MX-7-160, except instead of tailwheel has aluminium spring main gear with nosewheel and optional

only 2-seats

3. Airworthiness Category: Normal Category

4. Type Certificate Holder:

Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

5. Manufacturer:

Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

6. Certification Application Date: 03

01 Nov 1957

7. (Reserved)

N.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements: 01 Nov 1957

2. Airworthiness Requirements: CAR 3, Amdt 3-1 through 3-5 eff 15 May 1956 and 3.705

amended by 3-7, FAR 23.955 instead of CAR 3.435, FAR

23.1545 instead of CAR 3.757

3. Special Conditions: None

4. Exemptions: None

5. Deviations: None

6. Equivalent Safety Findings: None

7. Requirements elected to comply: -

8. Environmental Standards: ICAO, Annex 16, Vol 1

9. (Reserved)

10. (Reserved)



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2022. All rights reserved. ISO9001 Certified.Page 52 of 73 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Issue: 07

N.III. <u>Technical Characteristics and Operational Limitations</u>

1. Type Design Definition: Master Drawing List Model MX-7-160 or MXT-7-160

2. Description: single piston engine, four-seats, steel cage construction, high

wing with conventional tail

3. Equipment: refer to AFM4. Dimensions: refer to AFM

5. Engine:

5.1.1 Model: Lycoming O-320-B2D

5.1.2 Type Certificate: FAA E-274

5.1.3 Limitations: 2700 rpm, full throttle continuous

6. Load factors: -

7. Propeller:

7.1 Model:

Sensenich fixed pitch 74DM7S5-0-52 or -54 or -56 or

Sensenich fixed pitch 74DM7S8-0-52 or -54 or -56

Not over 2500 rpm, not unter 2400 rpm at full throttle

Not over 2620 rpm, not unter 2520 rpm at full throttle (-52)

7.2 Type Certificate: FAA P-886

8. Fluids:

8.1 Fuel: 100/100LL minimum grade aviation gasoline

8.2 Oil: refer to AFM

9. Fluid capacities:

9.1 Fuel: Standard Fuel Tank Total: 163 Litre

Usable: 151,5 Litre

9.2 Oil: Maximum: 7,8 Litre

10. Air Speeds: Design Manoevring Speed V_A: 109 KIAS (125 mph)

Flap Extended Speed V_{FE}: 78 KIAS (90 mph)

Maximum Structural Cruising Speed V_{NO}:126 KIAS (145 mph)

Never Exceed Speed V_{NE}: 156 KIAS (180 mph)

11. (Reserved)

12. (Reserved)



Issue: 07

13. Maximum Weights: Take-off 998 kg (2200 lbs)

14. Centre of Gravity Range: Forward limit from +39 to + 52 cm at 998 kg

from +33,5 to +52 cm at 726kg or less

15. Datum: Wing leading edge

16. (Reserved)

17. Levelling Means: levelling lug and mark on bottom side of right-wing root

18. Minimum Flight Crew: 1

19. Maximum Passenger Seating 3 (optional 1 if MXT-7-160)

Capacity:

20. Baggage/Cargo 77 kg at +50,8, 158 kg at +107, 113 kg at +178

Compartments:

21. (Reserved)

N.IV. Operating and Service Instructions

1. Airplane Flight Manual (AFM) Model MX-7-160 dated 11/13/92 or later approved revision

Model MXT-7-160 dated 11/13/92 or later approved revision

2. Maintenance Manual (MM) MM for Model MX-7-160 or Model MXT-7-160

N.V. Notes:

- 1. This certification applies to serial numbers MX-7-160, S/N 19001C and up, MXT-7-160, S/N 17001Cand up under Production Certificate 11S0
- 2. Additional equipment refer to AFM

Issue: 07

SECTION O: MODEL MX-7-180

O.I. General

1. Data Sheet No.: IM.A.018, Issue 7

2. a) Type: M-4

b) Model: MX-7-180

c) Variant: MX-7-180 (4/ optional 5 PCLM, Normal Category, FAA

approved 18 Dec 1984

MXT-7-180 (4/ optional 5 PCLM, Normal Category, FAA approved 09 Nov 1990, same as MX-7-180, except instead of tailwheel has aluminium spring main gear with nosewheel

3. Airworthiness Category: Normal Category

4. Type Certificate Holder:

Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

5. Manufacturer:

Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

6. Certification Application Date:

01 Nov 1957

7. (Reserved)

O.II. <u>EASA Certification Basis</u>

1. Reference Date for determining the applicable requirements: 01 Nov 1957

2. Airworthiness Requirements: CAR 3, Amdt 3-1 through 3-5 eff 15 May 1956 and 3.705

amended by 3-7, FAR 23.955 instead of CAR 3.435, FAR

23.1545 instead of CAR 3.757

3. Special Conditions: None

4. Exemptions: None

5. Deviations: None

6. Equivalent Safety Findings: None

7. Requirements elected to comply: -

8. Environmental Standards: ICAO, Annex 16, Vol 1

9. (Reserved)

10. (Reserved)



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2022. All rights reserved. ISO9001 Certified.Page 55 of 73 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Issue: 07

O.III. <u>Technical Characteristics and Operational Limitations</u>

1. Type Design Definition: Master Drawing List Model MX-7-180 or MXT-7-180

2. Description: single piston engine, four-seats, steel cage construction, high

wing with conventional tail

3. Equipment: refer to AFM4. Dimensions: refer to AFM

5. Engine:

5.1.1 Model: Lycoming O-360-C1F

5.1.2 Type Certificate: FAA E-286

5.1.3 Limitations: 2700 rpm, all operations

6. Load factors: -

7. Propeller:

7.1 Model:

Hartzell constant speed HC-C2YR-1BF/F7666A

Avoid continuous operations between 2000 and 2250 rpm

7.2 Type Certificate: EASA.IM.P.130

8. Fluids:

8.1 Fuel: 100/100LL minimum grade aviation gasoline

8.2 Oil: refer to AFM

9. Fluid capacities:

9.1 Fuel: Standard Fuel Tank Total: 163 Litre

Usable: 151,5 Litre

9.2 Oil: Maximum: 7,8 Litre

10. Air Speeds: MX-7-180

Design Manoevring Speed V_A: 112 KIAS (129 mph)

Flap Extended Speed V_{FE}: 85 KIAS (98 mph)

Maximum Structural Cruising Speed V_{NO}:129 KIAS (149 mph)

Never Exceed Speed V_{NE}: 161 KIAS (185 mph)

MXT-7-180

Design Manoevring Speed V_A: 109 KIAS (125 mph)

Flap Extended Speed V_{FE}: 82 KIAS (95 mph)

Maximum Structural Cruising Speed V_{NO} :128 KIAS (147 mph)

Never Exceed Speed V_{NE}: 158 KIAS (182 mph)



Issue: 07

11. (Reserved)

12. (Reserved)

13. Maximum Weights: Take-off 1134 kg (2500 lbs)

14. Centre of Gravity Range: Forward limit from +40,5 to + 52 cm at 1134 kg

from +31,5 to +52 cm at 789 kg or less

15. Datum: Wing leading edge

16. (Reserved)

17. Levelling Means: levelling lug and mark on bottom side of right-wing root

18. Minimum Flight Crew: 1

19. Maximum Passenger Seating 3 (optional 4)

Capacity:

20. Baggage/Cargo 77 kg at +50,8, 158 kg at +107, 113 kg at +178

Compartments:

21. (Reserved)

O.IV. Operating and Service Instructions

1. Airplane Flight Manual (AFM) Model MX-7-180 dated 12/18/84 or later approved revision

Model MXT-7-180 dated 11/09/90 or later approved revision

2. Maintenance Manual (MM) MM for Model MX-7-180 or Model MXT-7-180

O.V. Notes:

- This certification applies to serial numbers MX-7-180, S/N 11001C and up, MXT-7-180, S/N 14000C and up under Production Certificate 11S0
- 2. Additional equipment refer to AFM

Issue: 07

SECTION P: MODEL MX-7-180A

P.I. General

1. Data Sheet No.: IM.A.018, Issue 7

2. a) Type: M-4

b) Model: MX-7-180A

c) Variant: MX-7-180A (4 PCLM, Normal Category, FAA approved 03

Jun 1993

MXT-7-180A (4 PCLM, Normal Category, FAA approved 03 Jun 1993, same as MX-7-180, except instead of tailwheel has

aluminium spring main gear with nosewheel

3. Airworthiness Category: Normal Category

4. Type Certificate Holder:

Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

5. Manufacturer:

Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

6. Certification Application Date:

01 Nov 1957

7. (Reserved)

P.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements: 01 Nov 1957

2. Airworthiness Requirements: CAR 3, Amdt 3-1 through 3-5 eff 15 May 1956 and 3.705

amended by 3-7, FAR 23.955 instead of CAR 3.435

3. Special Conditions: None

4. Exemptions: None

5. Deviations: None

6. Equivalent Safety Findings: None

7. Requirements elected to comply:

8. Environmental Standards: ICAO, Annex 16, Vol 1

9. (Reserved)

10. (Reserved)



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2022. All rights reserved. ISO9001 Certified.Page 58 of 73 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Issue: 07

P.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Master Drawing List Model MX-7-180A or MXT-7-180A

2. Description: single piston engine, four-seats, steel cage construction, high

wing with conventional tail

3. Equipment: refer to AFM4. Dimensions: refer to AFM

5. Engine:

5.1.1 Model: Lycoming O-360-C1F or O-360-C4F

5.1.2 Type Certificate: FAA E-286

5.1.3 Limitations: 2700 rpm, full throttle continuous

6. Load factors: -

7. Propeller:

7.1 Model:

Sensenich fixed pitch 76EM8S5-0-56 or 76EM8S8-0-56

Not over 2500 rpm, not under 2400 rpm at full throttle

7.2 Type Certificate: FAA P4EA

8. Fluids:

8.1 Fuel: 100/100LL minimum grade aviation gasoline

8.2 Oil: refer to AFM

9. Fluid capacities:

9.1 Fuel: Standard Fuel Tank Total: 163 Litre

Usable: 151,5 Litre

9.2 Oil: Maximum: 7,8 Litre

10. Air Speeds: Design Manoevring Speed V_A: 109 KIAS (125 mph)

Flap Extended Speed V_{FE}: 85 KIAS (98 mph)

Maximum Structural Cruising Speed V_{NO}:129 KIAS (149 mph)

Never Exceed Speed V_{NE}: 161 KIAS (185 mph)

11. (Reserved)

12. (Reserved)

13. Maximum Weights: Take-off 1089 kg (2400 lbs)

Issue: 07

14. Centre of Gravity Range: Forward limit from +40,5 to + 52 cm at 1089 kg

MX-7-180A: from +31,5 to +52 cm at 789 kg or less

MXT-7-180A: from +34,5 to +52 cm at 726 kg or less

15. Datum: Wing leading edge

16. (Reserved)

17. Levelling Means: levelling lug and mark on bottom side of right-wing root

18. Minimum Flight Crew: 1

19. Maximum Passenger Seating 3

Capacity:

20. Baggage/Cargo 77 kg at +50,8, 158 kg at +107, 113 kg at +178

Compartments:

21. (Reserved)

P.IV. Operating and Service Instructions

1. Airplane Flight Manual (AFM) Model MX-7-180A dated 6/3/93 or later approved revision

Model MXT-7-180A dated 6/3/93 or later approved revision

2. Maintenance Manual (MM) MM for Model MX-7-180A or Model MXT-7-180A

P.V. Notes:

- 1. This certification applies to serial numbers MX-7-180A, S/N 20001C and up, MXT-7-180A, S/N 21001C and up under Production Certificate 11S0
- 2. Additional equipment refer to AFM

Issue: 07

SECTION Q: MODEL MX-7-180B

Q.I. General

1. Data Sheet No.: IM.A.018, Issue 7

2. a) Type: M-4

b) Model: MX-7-180B(4/ 5 optional PCLM, Normal Category, FAA

approved 12 Jul 1993

c) Variant:

3. Airworthiness Category: Normal Category

4. Type Certificate Holder:

Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

5. Manufacturer:

Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

6. Certification Application Date: 01 Nov 1957

7. (Reserved)

8. EASA Certificate Date 14 Dec 2004

Q.II. EASA Certification Basis

 Reference Date for determining the applicable requirements:
 01 Nov 1957

2. Airworthiness Requirements: CAR 3, Amdt 3-1 through 3-5 eff 15 May 1956 and 3.705

amended by 3-7, FAR 23.955 instead of CAR 3.435

3. Special Conditions: None

4. Exemptions: None

5. Deviations: None

6. Equivalent Safety Findings: None

7. Requirements elected to comply: -

8. Environmental Standards: ICAO, Annex 16, Vol 1

9. (Reserved)

10. (Reserved)



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2022. All rights reserved. ISO9001 Certified.Page 61 of 73 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Issue: 07

Q.III. <u>Technical Characteristics and Operational Limitations</u>

1. Type Design Definition: Master Drawing List Model MX-7-180B

2. Description: single piston engine, four-seats (optional five), steel cage

construction, high wing with conventional tail and tailwheel

3. Equipment: refer to AFM

4. Dimensions: refer to AFM

5. Engine:

5.1.1 Model: Lycoming O-360-C1F

5.1.2 Type Certificate: FAA E-286

5.1.3 Limitations: 2700 rpm, full throttle continuous

6. Load factors: -

7. Propeller:

7.1 Model:

Hartzell constant speed HC-C2YR-1BF/F7666A

Avoid continuous operations between 2000 and 2250 rpm

7.2 Type Certificate: EASA.IM.P.130

8. Fluids:

8.1 Fuel: 100/100LL minimum grade aviation gasoline

8.2 Oil: refer to AFM

9. Fluid capacities:

9.1 Fuel: Standard Fuel Tank Total: 163 Litre

Usable: 151,5 Litre

9.2 Oil: Maximum: 7,8 Litre

10. Air Speeds: Design Manoevring Speed V_A: 109 KIAS (125 mph)

Flap Extended Speed V_{FE}: 85 KIAS (98 mph)

Maximum Structural Cruising Speed V_{NO}:129 KIAS (149 mph)

Never Exceed Speed V_{NE}: 161 KIAS (185 mph)

11. (Reserved)

12. (Reserved)

13. Maximum Weights: Take-off 1134 kg (2500 lbs)



Issue: 07

14. Centre of Gravity Range: Forward limit from +40,5 to + 52 cm at 1134 kg

from +31,5 to +52 cm at 789 kg or less

15. Datum: Wing leading edge

16. (Reserved)

17. Levelling Means: levelling lug and mark on bottom side of right-wing root

18. Minimum Flight Crew: 1

19. Maximum Passenger Seating 3 (optional 4)

Capacity:

20. Baggage/Cargo 77 kg at +50,8, 158 kg at +107, 113 kg at +178

Compartments:

21. (Reserved)

Q.IV. Operating and Service Instructions

1. Airplane Flight Manual (AFM) Model MX-7-180B dated 7/12/93 or later approved revision

2. Maintenance Manual (MM) MM for Model MX-7-180B

Q.V. Notes:

- 1. This certification applies to serial numbers MX-7-180B, S/N 22001C and up under Production Certificate 11S0
- 2. Additional equipment refer to AFM

Issue: 07

SECTION R: MODEL MX-7-180C

R.I. General

1. Data Sheet No.: IM.A.018, Issue 7

2. a) Type: M-4

b) Model: MX-7-180C(4/ 5 optional PCLM, Normal Category, FAA

approved 27 Aug 1996

c) Variant:

3. Airworthiness Category: Normal Category

4. Type Certificate Holder:

Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

5. Manufacturer:

Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

6. Certification Application Date: 01 Nov 1957

7. (Reserved)

8. EASA Certificate Date 5 May 2005

R.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements: 01 Nov 1957

2. Airworthiness Requirements: CAR 3, Amdt 3-1 through 3-5 eff 15 May 1956 and 3.705

amended by 3-7, FAR 23.955 instead of CAR 3.435

3. Special Conditions: None

4. Exemptions: None

5. Deviations: None

6. Equivalent Safety Findings: None

7. Requirements elected to comply: -

8. Environmental Standards: ICAO, Annex 16, Vol 1

9. (Reserved)

10. (Reserved)



Issue: 07

R.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Master Drawing List Model MX-7-180C

2. Description: single piston engine, four-seats (optional five), steel cage

construction, high wing with conventional tail and aluminium spring main gear with nosewheel, certified as Landplane and

Floatplane

3. Equipment: refer to AFM

4. Dimensions: refer to AFM

5. Engine:

5.1.1 Model: Lycoming O-360-C1F

5.1.2 Type Certificate: FAA E-286

5.1.3 Limitations: 2700 rpm, full throttle continuous

6. Load factors:

7. Propeller:

7.1 Model:

Hartzell constant speed HC-C2YR-1BF/F7666A

Avoid continuous operations between 2000 and 2250 rpm

7.2 Type Certificate: EASA.IM.P.130

8. Fluids:

8.1 Fuel: 100/100LL minimum grade aviation gasoline

8.2 Oil: refer to AFM

9. Fluid capacities:

9.1 Fuel: Standard Fuel Tank Total: 163 Litre

Usable: 151,5 Litre

9.2 Oil: Maximum: 7,8 Litre

10. Air Speeds: Landplane

Design Manoevring Speed V_A : 109 KIAS (125 mph)

Flap Extended Speed V_{FE}: 85 KIAS (98 mph)

Maximum Structural Cruising Speed V_{NO} :129 KIAS (149 mph)

Never Exceed Speed V_{NE}: 161 KIAS (185 mph)

<u>Floatplane</u>

Design Manoevring Speed V_A : 109 KIAS (125 mph) Flap Extended Speed V_{FE} : 85 KIAS (98 mph)



Issue: 07

Maximum Structural Cruising Speed V_{NO}:126 KIAS (145 mph)

Never Exceed Speed V_{NE}: 142 KIAS (164 mph)

11. (Reserved)

12. (Reserved)

13. Maximum Weights: Take-off 1134 kg (2500 lbs)

14. Centre of Gravity Range: Landplane:

from +40,5 to + 52 cm at 1134 kg

from +31,5 to +52 cm at 789 kg or less

Floatplane:

from +48,1 to +48,2 cm at 1134 kg

from +34,3 to +58,2 cm at 948 kg or less

15. Datum: Wing leading edge

16. (Reserved)

17. Levelling Means: levelling lug and mark on bottom side of right-wing root

18. Minimum Flight Crew: 1

19. Maximum Passenger Seating 3 (optional 4)

Capacity:

20. Baggage/Cargo 77 kg at +50,8, 158 kg at +107, 113 kg at +178

Compartments:

21. (Reserved)

R.IV. Operating and Service Instructions

1. Airplane Flight Manual (AFM)

Model MX-7-180C dated 26 August 1996, Rev D dated 24 May 2002 or later approved revision

Including AFM-S No 1 (Wipline Model 2350 Amphibious Floats installation in accordance with Maule drawing No 9178A) dated 24 March 1998, Rev C dated 19 August 2002, or later approved revision



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2022. All rights reserved. ISO9001 Certified.Page 66 of 73 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Issue: 07

2. Maintenance Manual (MM)

MM for Model MX-7-180C

R.V. Notes:

- 1. This certification applies to serial numbers MX-7-180C, S/N 28001C and up under Production Certificate 11S0
- 2. Additional equipment refer to AFM

Issue: 07

SECTION S: MODEL MX-7-235

S.I. General

1. Data Sheet No.: IM.A.018, Issue 7

2. a) Type: M-4

b) Model: M-6-235 (4PCLM, Normal Category, FAA approved 18 Oct

1984

c) Variant:

3. Airworthiness Category: Normal Category

4. Type Certificate Holder:

Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

5. Manufacturer:

Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South

Moultrie, Georgia 31768

USA

6. Certification Application Date: 01 Nov 1957

7. (Reserved)

8. LBA Certification Date 04 May 1988

S.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements: 01 Nov 1957

2. Airworthiness Requirements: CAR 3, Amdt 3-1 through 3-5 eff 15 May 1956 and 3.705

amended by 3-7, additional FAR 23.955 instead of CAR3 .435

3. Special Conditions: None

4. Exemptions: None

5. Deviations: None

6. Equivalent Safety Findings: None

7. Requirements elected to comply: -

8. Environmental Standards: ICAO, Annex 16, Vol 1

9. (Reserved)

10. (Reserved)



Issue: 07

S.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Master Drawing List Model MX-7-235

2. Description: single piston engine, four-seats (optional five-seats), steel cage

construction, high wing with conventional tail and tailwheel

3. Equipment: refer to AFM

4. Dimensions: refer to AFM

5. Engine:

5.1.1 Model: Lycoming O-540-J1A5D, O-540-J3A5, IO-540-W1A5D,

IO-540-W1A5 or O-540-B4B5

5.1.2 Type Certificate: FAA E-295 or 1E4

5.1.3 Limitations: For all operation 2400 rpm (O-540-J/IO-540-W)

For all operation 2575 rpm (O-540-B)

6. Load factors:

7. Propeller:

7.1 Model:

Hartzell constant speed HC-C2YR-1BF/F8468A-6R or -3R Hartzell

constant speed HC-C2YR-1BF/F8477D-6

Hartzell constant speed HC-C3YR-1RF/F7693(F)-() McCauley

constant speed B3D32C414-C/G-82NDA-2 o -4

McCauley constant speed B3D37C224-B/G-90RA-9

7.2 Type Certificate: EASA.IM.P.130 or FAA P25EA or FAA P58GL

8. Fluids:

8.1 Fuel: 100/100LL minimum grade aviation gasoline

8.2 Oil: refer to AFM

9. Fluid capacities:

9.1 Fuel: Standard Fuel Tank Total: 163 Litre

Usable: 151,5 Litre

9.2 Oil: IO-540: Maximum: 7,8 Litre, Minimum: 5,0 Litre

O-540: Maximum: 11,8 Litre, Minimum: 8,9 Litre

10. Air Speeds: Design Manoevring Speed V_A: 109 KIAS (125 mph)

Flap Extended Speed V_{FE}: 82 KIAS (94 mph)

Maximum Structural Cruising Speed V_{NO}:126 KIAS (145 mph)

Never Exceed Speed V_{NE}: 156 KIAS (180 mph)

11. (Reserved)



Issue: 07

12. (Reserved)

13. Maximum Weights: Take-off 1134 kg (2500 lbs)

14. Centre of Gravity Range: Forward limit from +38 to + 52 cm at 1134 kg

from +28 to +52 cm at 771kg or less

15. Datum: Wing leading edge

16. (Reserved)

17. Levelling Means: levelling lug and mark on bottom side of right wing root

18. Minimum Flight Crew: 1

19. Maximum Passenger Seating 3 (optional 4)

Capacity:

20. Baggage/Cargo 77 kg at +50,8, 158 kg at +107, 113 kg at +178

Compartments:

21. (Reserved)

S.IV. Operating and Service Instructions

1. Airplane Flight Manual (AFM) Model MX-7-235, AFM dated 10/18/84 or later approved revision

2. Maintenance Manual (MM) MM for Model MX-7-235

S.V. Notes:

- 1. This certification applies to serial numbers MX-7-235, serial numbers 10001C and up, under Production Certificate 11S0
- 2. Additional equipment refer to AFM
- 3. Propeller and Propeller limits:

Hartzell constant speed model HC-C2YR-1BF/F8468A-6R or -3R (-3R use with 7:00 tires or larger/26 psi minimum air pressure.)
Hartzell constant speed 2 blade model HC-C2YR-1BF/F8477D-6 (Use with O-540-J3A5 or O-540-B4B5 engine only)
Hartzell constant speed 3 blade model HC-C3YR-1RF/F7693(F)-()

(Use with O-540-J3A5, O-540-B4B5, IO-540-W1A5D or IO-540-W1A5 engines only)

Diameter: -3R: Not over 81 in.; not under 77 in.



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2022. All rights reserved. ISO9001 Certified.Page 70 of 73 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Issue: 07

-6R: Not over 78 in.; not under 77 in.

F8477D-6 or F7693(F)-(): Not over 78 in.; not under 76 in.

Pitch settings at 30" sta.:

-3R: low 16º +1º high 30º +1º (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 13.8° +1° high 30° +1° (O-540-B4B5 engine)

-6R: low 16.7° +1° high 30° +1° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 14.3° +1° high 30° +1° (O-540-B4B5 engine)

F8477D-6: low 16.7º +1º high 30º +1º (O-540-J3A5 engine)

low 14.3° +1° high 30° +1° (O-540-B4B5 engine)

F7693(F)-(): low 14.2° +1° high 31° +1° (O-540-J3A5, IO-540-W1A5 or IO-540-W1A5D engines)

low 12.5° +1° high 31° +1° (O-540-B4B5 engine)

-6R: Do not exceed 23 in. M.P. below 2050 rpm.

McCauley constant speed 3-blade model B3D32C414-C/G-82NDA-2 or -4*

(-2 use with 7:00 tires or larger)

McCauley constant speed 2-blade model B2D37C224-B/G-90RA-9**

(-9 use with 7:00 tires or larger/26 psi minimum air pressure.)

Diameter: -2: not over 80 in.; not under 76 in.

-4: not over 78 in.; not under 76 in.

-9: not over 81 in.; not under 78 in.

Pitch settings at 30" sta.:

-2 (80"): low 15.0° +0.2° high 30.0° +0.5° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 13.3° +0.2° high 30.0° +0.5° (O-540-B4B5 engine)

-4 (78"): low 15.7° +0.2° high 30.0° +0.5° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 14.0° +0.2° high 30.0° +0.5° (O-540-B4B5 engine)

-9 (81"): low 14.7° +0.2° high 24.6° +0.5° (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines)

low 13.3° +0.2° high 24.6° +0.5° (O-540-B4B5 engine)

Spinner: Hartzell spinner assembly A2298-2 (use with Hartzell propeller only)

McCauley spinner assembly D-6240 (use with McCauley 3-blade propeller only)

McCauley spinner assembly D-6195 (use with McCauley 2-blade propeller only)

Governor: Woodward F210681*** or B210761 (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 only);

E210761 (O-540-B4B5 only)

McCauley C290D3(X)/T30 or DC290D1(X)/T14 (O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 only);

C290D3(X)/T31 or DC290D1(X)/T15 (O-540-B4B5 only)

- * McCauley B3D32C414-C/G-82NDA-4 not approved for installation on M-5-235C with O-540-J1A5D, O-540-J3A5, IO-540-W1A5D or IO-540-W1A5 engines.
- ** McCauley B2D37C224-B/G-90RA-9 not approved for installation on M-5-235C, M-6-235, M-7-235, MX-7-235

with O-540-B4B5 engines.

*** For Woodward Governor F210681 on M-5-235C refer to AD#81-25-01 for eligible serial numbers.



Issue: 07

ADMINISTRATIVE SECTION

I. Acronyms

A.C. - Advisory Circular

A.D. - Airworthiness Directives

AFM - Airplane Flight Manual

C.G. – Centre of Gravity

CFR - Code of Federal Regulations

CRI – Certification Review Items

CS - Certification Specifications

EASA – European Aviation Safety Agency

EFIS - Electronic Flight Information System

EU - European Union

F.S. – Frame Status

FAA – Federal Aviation Administration

FADEC – Full Authority Digital Engine Control

FT - Feet

GAL - Gallons

ICAO – International Civil Aviation Organization

IFR – Instrument Flight Rules

KCAS – Knots Calibrated Air Speed

KG – Kilo Grams

KIAS - Knots Indicated Air Speed

LBS - Pounds

MIL – Military Standard

MMEL - Master Minimum Equipment List

N.A.A. – National Aviation Authority

RVSM – Reduced Vertical Separation Minimum

S.B. - Service Bulletin

T.O. – Take Off

TC – Type Certificate

TCDS – Type Certificate Data Sheet

TCDSN – Type Certificate Data Sheet - Noise.

TSO – Technical Standards Order

VFR - Visual Flight Rules



Issue: 07

II. Type Certificate Holder Record

Maule Aerospace Technology, Inc. 2099 Georgia Highway 133 South Moultrie, Georgia 31768 USA

III. Change Record

Issue	Date	Changes
Issue 01	14 Dec 2004	Initial EASA Release
Issue 02	17 Jan 2005	Approval of EDO 797-2500 amphibious floats on M-7-235B
Issue 03	04 Jul 2005	Approval of Wipline Model 3000 amphibious floats on M-7-235B
Issue 04	08 Sep 2005	Approval of Wipline Model 2350 amphibious floats on MX-7-180C
Issue 05	03 Sep 2007	General Correction and approval of M-4-180V
Issue 06	20 May 2011	Administrative addition of M-7-235C, use of new EASA TCDS Format
Issue 07	26 July 2022	Administrative correction of applicable serial No. for MXT-7-180 to
		include No. 1400C; use of new EASA TCDS Format