Issue: 12 Date: 31 July 2025



TYPE-CERTIFICATE DATA SHEET

NO. EASA.A.058

for PZL M28

Type Certificate HolderPolskie Zakłady Lotnicze Sp. z o. o.

Wojska Polskiego 3 39-300 Mielec POLAND

For models: PZL M28 00, PZL M28 02, PZL M28 05

Issue: 12 Date: 31 July 2025

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Issue: 12 Date: 31 July 2025

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Date: 31 July 2025 Issue: 12

SECTION A: **PZL M28 00**

A.I. General

1. Data Sheet No.: A.058 Issue: 01 Date: October 24, 2005

2. a) Type: PZL M28 b) Model: PZL M28 00

- passenger (18 pax) transport c) Variant:

- cargo transport

passenger/cargo transport

paradrop

3. Airworthiness Category: Commuter

4. Type Certificate Holder: Polskie Zakłady Lotnicze Sp. z o. o. 5. Manufacturer: Polskie Zakłady Lotnicze Sp. z o. o.

6. Certification Application Date: Sep 14, 2004 (to EASA)

7. (Reserved) National Certifying Civil Aviation Office, Poland

Authority

8. (Reserved) National Authority This EASA Type Certificate replaces the Polish CAO Type Certificate Date:

May 15, 1995

Type Certificate No. BB-199/1

none 9. Reserved

A.II **Certification Basis**

1. Reference Date for determining Oct 11, 1986 the applicable requirements:

2. Airworthiness Requirements: FAR Part 23, including Amendment 23 - 34

None 3. Special Conditions:

None 3. Exemptions:

None 4. Deviations:

None 5. Equivalent Safety Findings:

6. Requirements elected to none

comply:

FAR Part. 34 Subp. B, FAR Part. 36 App. G. 7. Environmental Standards:

8. (Reserved) Additional National none

Requirements:

9. (Reserved) none



Issue: 12 Date: 31 July 2025

A.III Technical Characteristics and Operational Limitations

1. Type Design Definition: specification sheet No. 28.15.0000.000

2. Description: The PZL M28 Model 00 is an all metal strut-braced high

wing twin engine turboprop STOL airplane, with twin vertical tails and a tricycle non-retractable landing gear

featuring a steerable nose wheel

3. Equipment:

Standard: As defined in Section 7 of the Airplane Flight Manual

Ref. No. M28/LTO-3/27/95

Optional & Operational: As defined in Section 9 of the Airplane Flight Manual

Ref. No. M28/LTO-3/27/95

4. Dimensions:

Length 13.10 m (43 ft)
Height 4.90 m (16 ft 1 in)
Wing span 22.06 m (72 ft 4 in)
Wing area 39.72 m² (427.5 sq. ft.)

5. Engine:

5.1.1 Model: PT6A-65B turboprop with a free turbine, reduction ratio

of 0.0568:1

5.1.2 Type Certificate: E4EA

5.1.3 Limitations: For power-plants limits refer to Airplane Flight Manual,

PZL M28 with PT6A-65B Engines ref No.

M28/LTO-3/27/95,

5.1.4 Engine Performance: Shaft

5.1.4. Engine Performance.	Horse Power	Prop orse Torque Speed		Turbine Speed	Exhaust Gas Temp.	
	SHP	PSIG	rpm	%	°C	
Takeoff	1100*	43.34	1700	104	820	
Max. Continuous	1100**	43.34	1700	104	810	
Max. Cruise	1000***	43.34	1700	104	800	
			ata ata ata			

^{*} attainable up to 50.5 °C; ** attainable up to 45.5 °C; *** attainable up to 42.5 °C

5.1.5 Number of engines: 2

6. Load factors:

Flaps Up n=+3.0, -1.0 Flaps Down n=+2.0, 0

Issue: 12 Date: 31 July 2025

7. Propeller:

7.1 Model: HC-B5MP-3D/M10876ANSK five-blade, all-metal,

constant-speed, with WOODWARD speed governor

(3032082A)

7.2 Type Certificate: P44GL

7.3 Number of blades: 5 (five)

7.4 Diameter: 2.820 m (9 ft 3in)

7.5 Sense of Rotation: Clockwise

8. Fluids:

8.1 Fuel: Aviation kerosene type JET A, JET A-1, JET A-2 and

approved equivalents as per P&WC Bulletin No. 13044.

Equivalents: F34, F35, F40, F43, F44, JP-4, JP-5, JP-8, AVTUR, AVTAG, AVTAC, CAN/C.G.SB.3.23-M86, CAN/C.G.SB.3.22-M86, CAN/C.G.SB.3.GP-24Ma, AIR 3404, AIR 3405, AIR 3407, RT acc. to GOST 16564-71.

8.2 Oil: Aero Shell Turbine Oil 500, Royco Turbine Oil 500, Mobil

Jet Oil II, Castrol 5000, BP Turbo Oil 2380 - in

accordance with Pratt & Whitney Bulletin No. 13001.

8.3 Coolant: N/A

9. Fluid capacities:

9.1 Fuel:

- Wing with no auxiliary tanks 1960 I (518 US Gal.)

- Wing with auxiliary tanks 2440 I (645 US Gal.)

- Extra long-ferry fuel tank inside 2090 I (552 US Gal.)

fuselage

9.2 Oil: 2 x 9.45 l (2.5 US gal)

9.3 Coolant system capacity: N/A

10. Air Speeds:

Airspeed Limitations:		IAS (km/h)	CAS (km/h)
Max. Allowable Operating Speed V_{MO}		355	345
Design Maneuvering Speed, V _A		230	225
Max. Allowable Flap-Extended Speed, V_{FE}			
	Flaps 15°	215	210
	Flaps 40°	200	190

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Max. Spoiler-Extended Speed, V_{NS}

	 outboard spoilers 	215	210
	- inboard spoilers	215	210
Minimum Control Speed, V _{MC}		135	130

11. Maximum Operating Altitude:

- without oxygen supply system 3000 m (9,842 ft.)

- with crew oxygen supply system provided 7620 m (25,000 ft.)

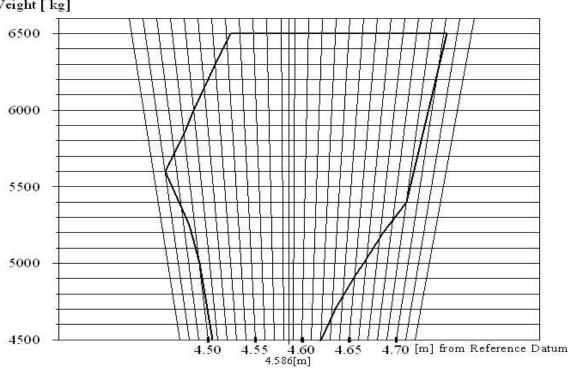
12. Allweather Operations - VFR flights, day and night Capability: - IFR flights, day and night

13. Weights:

Max. Takeoff 6500 kg Max. Landing 6175 kg

14. Centre of Gravity Range:

Weight [kg]



2.470 m (97.24 in) Frame No. 9, Forward 15. Datum: (see fig. 6.1, AFM, Chapter 6)

Issue: 12 Date: 31 July 2025

16. Control Surface Deflections:

Ailerons:	Up Down	22° ± 1° 16° 20′ ± 1°
Aileron Trim Tab:	Up Down	14°± 1° 14°± 1°
Elevator:	Up Down	27°± 1° 19°± 1°
Elevator Trim Tab:		
(Elevator Neutral)	Up	15°± 1°
	Down	$25^{\circ}\!\pm1^{\circ}$
Rudder LH:	Inboard Outboard	16°± 1° 22°± 1°
Rudder RH:	Inboard	16°± 1°
Ruddel Kn.	Outboard	22°± 1°
Rudder Trim Tab:		
(Rudder Neutral)	Left	15°± 1°
	Right	$15^{\circ} \pm 1^{\circ}$
Wing Flaps:	Takeoff Landing	15°± 1° 40°± 1°
Spoilers:	Inboard Outboard	45°± 1° 60°± 1°

17. Levelling Means: 1LP = LH and RH levelling point on frame No. 9

(see fig. 6.1, AFM, Chapter 6)

18. Minimum Flight Crew: 2 (two) pilots

19. Maximum Passenger Seating 18

Capacity:

20. Baggage/Cargo

Compartments:

Max. Baggage Compartment Load: 150 kg

Max. Payload: 1750 kg

Issue: 12 Date: 31 July 2025

21. Wheels and Tyres: Main wheel tyre size 720 x 310 mm (28.30 x 12.20 in)

Nose wheel tyre size (Type 6.50x10 – GOOD YEAR)

561x169 mm (22.10x6.65 in)

22. Landing gear: Fixed, tricycle type, with a steerable nose

wheel

Nose Wheel Controlling Angle \pm 15 $^{\circ}$

Nose Wheel Controlling Angle with $\pm 50^{\circ}$

Steering OFF

23. Max. Service Ceiling: 7620 m (25,000 ft.)

24. Operating Ambient Temperature Range: -50°C to + 50°C

25. (Reserved):

Issue: 12 Date: 31 July 2025

A.IV Operating and Service Instructions

- 1 Flight Manual: Airplane Flight Manual, PZL M28 with PT6A-65B Engines ref No. M28/LTO-3/27/95,
- 2. Technical Manual: PZL M28 Maintenance Manual Ref No. M28/4/95/LTO-33
- 3. Repair Manual: Repair Manual PZL M28 Airplane ref No. M28/1/2001
- 4. Manual for Operation: see related Flight Manual section 9.
- 5. Spare Parts Catalogue: Illustraded Parts Catalog, ref No. M28/14/97/LTO-3
- 6. Table of Dimensions, Limits and Clearances: see Chapter 6 of appropriate Maintenance Manual
- 7. Instruments and aggregates: see

for standard equipment:

As defined in Section 7 of the Airplane Flight Manual, PZL M28 with PT6A-65B Engines ref No. M28/LTO-3/27/95,

for optional & operational equipment:

As defined in Section 9 of the Airplane Flight Manual, PZL M28 with PT6A-65B Engines ref No. M28/LTO-3/27/95,

8. Airplane Service Life, and Component TBOs:

Airplane Service Life, Component TBOs as defined in Sec. 4 of M28 Maintenance Manual (M28/4/95/LTO-33) .

Issue: 12 Date: 31 July 2025

A.V Notes

- 1. Flight in known or forecast icing conditions is prohibited
- 2. This Type Certificate applies to aircraft S/N: AJEP1-01 and to AJE001-02 and up
- 3. When the ice protection system is installed, flight with this system operative is allowed but with consideration for note 1 (above).

Issue: 12 Date: 31 July 2025

SECTION B: PZL M28 02

B.I. General

1. Data Sheet No.: A.058 Issue: 01 Date: October 24, 2005

2. a) Type: PZL M28b) Model: PZL M28 02

c) Variant: - passenger transport (18 passengers + 1 attendant

seat)

passenger "Executive" (designation M28 02-E), 8 or
 passenger seats (depending on seat model) + 2

attendants' seats

- cargo transport

- mixed passenger/cargo transport

- paradrop

- liquid-cargo transportation

- long-range ferry

For above listed versions the reinforced PZL M28 02-W variant with 7500 kg MTOW is approved.

3. Airworthiness Category: Commuter

Type Certificate Holder: Polskie Zakłady Lotnicze Sp. z o. o.
 Manufacturer: Polskie Zakłady Lotnicze Sp. z o. o.

6. Certification Application Date: Sep 14, 2004 (to EASA)

7. National Certifying Authority Civil Aviation Office, Poland

8. National Authority Type Feb 23, 1996

Certificate Date: This EASA Type Certificate replaces the Polish CAO

Type Certificate No. BB-199/1

9. Reserved none

B.II Certification Basis

1. Reference Date for determining the applicable requirements: Oct 11, 1986

2. Airworthiness Requirements: FAR Part 23, including Amendment 23 – 34. For flight in

known and forecast icing (FIKI) see certification basis

for PZL M2805 model for FIKI.

3. Special Conditions: None

3. Exemptions: None

4. Deviations:



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Issue: 12 Date: 31 July 2025

5. Equivalent Safety Findings: None

6. Requirements elected to none

comply:

7. Environmental Standards: FAR Part. 34 Subp. B, FAR Part. 36 App. G.

8. (Reserved) Additional National none

Requirements:

9. (Reserved) none

B.III Technical Characteristics and Operational Limitations

1. Type Design Definition: specification sheet No. 28.15.0000.000.000

2. Description: The PZL M28 Model 02 is an all metal strut-braced high wing

twin engine turboprop STOL airplane, with twin vertical tails

and a tricycle non-retractable landing gear featuring a

steerable nose wheel

3. Equipment:

Standard: As defined in Section 7 of the Airplane Flight Manual ref No.

M28/LTO-3/27/95

Optional & Operational: As defined in Section 9 of the Airplane Flight Manual Ref.

No. M28/LTO-3/27/95

4. Dimensions:

Length13.10 m (43 ft)Height4.90 m (16 ft 1 in)Wing span22.06 m (72 ft 4 in)Wing area39.72 m² (427.5 sq.ft.)

5. Engine:

5.1.1 Model: PT6A-65B turboprop with a free turbine, reduction ratio of

0.0568:1

5.1.2 Type Certificate: E4EA

5.1.3 Limitations: For power-plants limits refer to Airplane Flight Manual, PZL

M28 with PT6A-65B Engines ref No. M28/LTO-3/27/95,

5.1.4. Engine Performance:	Shaft Horse Power	Torque Prop Speed		Turbine Speed	Exhaust Gas Temp.	
	SHP	PSIG	rpm	%	°C	
Takeoff	1100*	43.34	1700	104	820	
Max. Continuous	1100**	43.34	1700	104	810	
Max. Cruise	1000***	43.34	1700	104	800	

^{*} attainable up to 50.5 °C; ** attainable up to 45.5 °C; *** attainable up to 42.5 °C

Issue: 12 Date: 31 July 2025

5.1.5 Number of engines: 2

6. Load factors: For model M28 02 (7000 kg For model M28 02, for long-

MTOW) and range ferry only (7500 kg

M28 02-W (7500 kg MTOW)

MTOW)

Flaps Down

7. Propeller:

7.1 Model: HC-B5MP-3D/M10876ANSK five-blade, all-metal, constant-

speed, with WOODWARD speed governor (3032082A)

7.2 Type Certificate: P44GL

7.3 Number of blades: 5 (five)

7.4 Diameter: 2.820 m (9 ft 3in)

7.5 Sense of Rotation: Clockwise

8. Fluids:

8.1 Fuel: Aviation kerosene type JET A, JET A-1, JET A-2 and approved

equivalents as per P&WC Bulletin No. 13044.

Equivalents: F34, F35, F40, F43, F44, JP-4, JP-5, JP-8, AVTUR, AVTAG, AVTAC, CAN/C.G.SB.3.23-M86, CAN/C.G.SB.3.22-M86, CAN/C.G.SB.3.GP-24Ma, AIR 3404, AIR 3405, AIR 3407, RT acc.

to GOST 16564-71.

8.2 Oil: Aero Shell Turbine Oil 500, Royco Turbine Oil 500, Mobil Jet

Oil II, Castrol 5000, BP Turbo Oil 2380 - in accordance with

Pratt & Whitney Bulletin No. 13001.

8.3 Coolant: N/A

9. Fluid capacities:

9.1 Fuel: 1766 kg (2278 l), (3894 lbs; 602 US Gal.)

9.2 Oil: 2 x 9.45 l (2.5 US gal)

9.3 Coolant system capacity: N/A

10. Air Speeds:

Airspeed Limitations: IAS (km/h) CAS (km/h) Max. Allowable Operating Speed V_{MO} 355 345

Design Maneuvering Speed, V_A 230 225

for PZL M28 02-W variant: 244 238

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Max. Allowable Flap-Extended Speed, VFE

	Flaps 15°	215	210
	Flaps 40°	200	190
Max. Spoiler-Extended Speed, V _{NS}			
	 outboard spoilers 	215	210
	 inboard spoilers 	215	210
Minimum Control Speed, V _{MC}		153	146

11. Maximum Operating Altitude:

- without oxygen supply system

3000 m (9,842 ft)

- with crew oxygen supply system provided

7620 m (25,000 ft)

12. Allweather Operations Capability:

- VFR flights, day and night

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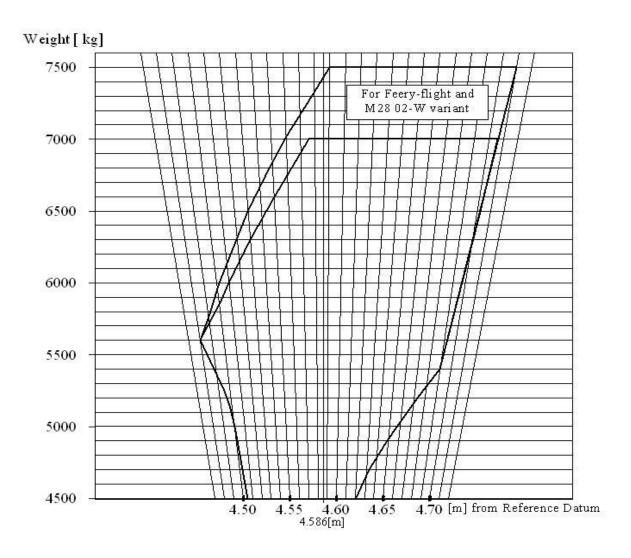
- IFR flights, day and night

13. Weights:

Max. Takeoff	7000 kg
Max. Landing	6650 kg
Max. Takeoff for Ferry Flight	7500 kg
Max. Takeoff and Landing for M28 02-W variant	7500 kg

14. Centre of Gravity Range:

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15. Datum: 2.470 m (97.24 in) Frame No. 9, Forward (see fig. 6.1, AFM, Chapter 6)

16. Control Surface Deflections:

Ailerons:	Up	$22^{\circ}\pm1^{\circ}$
	Down	16 ° 20' \pm 1 °
Aileron Trim Tab:	Up	14°± 1°
	Down	14°± 1°
Elevator:	Up	27°± 1°
	Down	19°± 1°
Elevator Trim Tab: (elevator neutral)	Up	15°± 1°
		(19°± 1°)*
	Down	25°± 1°
		(21°+1°)*

(*) On airplane S/N AJE001-01 only.



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Rudder LH:	Inboard	$16^{\circ} \pm 1^{\circ}$
	Outboard	22°± 1°
Rudder RH:	Inboard	$16^{\circ} \pm 1^{\circ}$
	Outboard	22°± 1°
Rudder Trim Tab: (rudder neutral)	Left	$15^{\circ} \pm 1^{\circ}$
	Right	15°± 1°
Wing Flaps:	Takeoff	15°± 1°
	Landing	$40 \circ \pm 1 \circ$
Spoilers:	Inboard	45°± 1°
	Outboard	60°± 1°

17. Levelling Means: 1LP = LH and RH levelling point on frame No. 9

(see fig. 6.1 AFM, Chapter 6)

18. Minimum Flight Crew: 2 (two) pilots

19. Maximum Passenger Seating Capacity:

Passenger Seating Capacity 18 + 1 attendant seat

Passenger Seating Capacity in 8 or 10 passenger seats (depending on seat

"Executive" version model) + 2 attendants' seats

20. Baggage/Cargo Compartments:

Max. Baggage in Under Fuselage 300 kg

Pod:

Max. Payload: 2000 kg

Max. Baggage on Baggage Shelf: 150 kg 1)

Max. Hoist Capacity: 700 kg 1)

1) not applicable for "Executive" version

21. Wheels and Tyres: Main wheel tyre size 720 x 310 mm (28.30 x 12.20 in)

Nose wheel tyre size (Type 6.50x10 – GOOD YEAR)

561x169 mm (22.10x6.65 in)

22. Landing gear: Fixed, tricycle type, with a steerable nose

wheel

Nose Wheel Controlling Angle \pm 15 $^{\circ}$

Nose Wheel Controlling Angle

 \pm 50 $^{\circ}$

with Steering OFF

for M28 02-W variant:

- Main Gear: rocker-type with a single-chamber shock absorber,

- Nose Gear: rocker-type, with a double-chamber shock absorber,

Nose Wheel Controlling Angle \pm 15 $^{\circ}$

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Nose Wheel Controlling Angle with Steering OFF

 \pm 45 $^{\circ}$

23. Max. Service Ceiling: 7620 m (25,000 ft)

24. Operating Ambient Temperature Range: -50°C to + 50°C

25. (Reserved):

B.IV Operating and Service Instructions

- 1 Flight Manual: Airplane Flight Manual, PZL M28 with PT6A-65B Engines ref No. M28/LTO-3/27/95.
- 2 Technical Manual: PZL M28 Maintenance Manual Ref No. M28/4/95/LTO-33.
- 3. Repair Manual: Repair Manual PZL M28 Airplane ref No. M28/1/2001
- 4. Manual for Operation: see related Flight Manual section 9.
- 5. Spare Parts Catalogue: Illustraded Parts Catalog, ref No. M28/14/97/LTO-3
- 6. Table of Dimensions, Limits and Clearances: see Chapter 6. Of appropriate Maintenance Manual
- 7. Instruments and aggregates: see

for standard equipment:

As defined in Section 7 of the Airplane Flight Manual, PZL M28 with PT6A-65B Engines ref No. M28/LTO-3/27/95,

for optional & operational equipment:

As defined in Section 9 of the Airplane Flight Manual, PZL M28 with PT6A-65B Engines ref No. M28/LTO-3/27/95,

8. Airplane Service Life, and Component TBOs:

Airplane Service Life, Component TBOs as defined in Sec. 4 of M28 Maintenance Manual (M28/4/95/LTO-33)

9. OSD (M28 02-W only):

OSD FC M28 02-W DTD/108/2015, Initial Issue from 29 Oct 2015, or later approved Revision

10. MMEL (M28 02-W only):

MMEL PZL M28 02-W M28 05, Original Issue from 20 May 2015, or later approved Revision



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B.V Notes

- 1. [Reserved.]
- 2. PZL M28 02-W variant: is approved for operation on condition of execution of provisions included in Bulletin No. E/12.048/2001 only.
- 3. This Type Certificate applies to aircraft S/N: AJE001-01 and up. For flight in known and forecast icing (FIKI) this certificate applies for AJE001-01 airplane only.
- 4. When the ice protection system is installed, flight with this system operative is allowed but with consideration for note 3 (above).
- 5. Chapter 4. Of the Maintenance Manual Ref No. M28/4/95/LTO-33 related to the FIKI have been approved on the Chapter 4. Of the Maintenance Manual Ref. No.: M28/11/2002,approved for PZL M28 05 model for FIKI basis.

Issue: 12 Date: 31 July 2025

SECTION C: PZL M28 05

C.I. General

1. Data Sheet No.: A.058

Issue: 01 Date: October 24, 2005

PZL M28 05-SG variant: Issue: 02 Date: April 21, 2006

2. a) Type: PZL M28b) Model: PZL M28 05

c) Variant: - passenger transport, max. 19 passengers;

- cargo transport;

- passenger/cargo transport mix, max. 18

passengers;paradrop;

- liquid-cargo transportation;

long-range ferry;

- version of improved standard, max. 13

passengers

- with the special equipment

transportation/release system (designation

PZL M28 05-S)

- maritime patrol (designation PZL M28 05-MPW)

- for Border Guard missions (designation

PZL M28 05-SG)

3. Airworthiness Category: Commuter

4. Type Certificate Holder: Polskie Zakłady Lotnicze Sp. z o. o.

6. Certification Application Date: Sep 14, 2004 (to EASA)

7. (Reserved) National Certifying Civil Aviation Office, Poland

Authority

5. Manufacturer:

8. (Reserved) National Authority

Type Certificate Date:

Nov. 17, 1999 (acc. to BB-199/1) Apr. 18, 2002 (acc. to BB-216)

Polskie Zakłady Lotnicze Sp. z o. o.

This EASA Type Certificate replaces the Polish CAO

Type Certificates No. BB-199/1 and BB-216

9. Reserved none

Issue: 12 Date: 31 July 2025

C.II Certification Basis

1. Reference Date for determining the applicable requirements: Oct 11, 1986 (acc. to the BB-199/1) Feb 2, 1991 (acc. to the BB-216)

2. Airworthiness Requirements:

for airplanes S/N AJE001-19 up to AJE002-10 (Polish CAO

TC No. BB199/1):

FAR Pt. 23, Amendment 34, FAR Pt. 23,

Amendment 42: Flight Data Recorder (23.1459),

Voice Recorder (23.1457)

FAR Pt. 23, Amendment 49: Installations, systems

and airplane reliability analysis (23.1309)

FAR Pt. 23, Amendment 50: Stall warning (23.207) FAR Pt. 34, Subpart B, FAR Pt. 36, Appendix G.

for airplanes S/N AJE00301 and

up: (Polish CAO TC

No. BB216)

FAR 23, Amendment 42,

FAR 23, Amendment 49: 23.1309,

FAR 23, Amendment 50: 23.49, 23.201, 23.203,

23.205, 23.207 and 23.1545

for airplanes S/N AJE00301 and up for service life extension

FAR 23, Amendment 48: 23.572, 23.574, 23.575, 23.629

for airplanes with ice protection system installed, certified for FIKI, S/N AJE00301 and up

FAR 23, Amendment 42,

FAR 23, Amendment 43: 23.1419,

FAR 23, Amendment 45: 23.1525,

FAR 23, Amendment 49 : 23.775, 23.1307, 23.1309, 23.1323, 23.1326, 23.1351,

23.1353, and 23.1431

FAR 23, Amendment 50 : 23.49, 23.63, 23.67, 23.69, 23.75, 23.201, 23.203, 23.207, 23.1325, 23.1559, 23.1581, 23.1583 and

23.1585

FAR 23, Amendment 51: 23.929, 23.975 and

23.1093

FAR 23, Amendment 53: 23.901 FAR 23, Amendment 54: 23.903 FAR 23, Amendment 62: 23.73



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for airplanes S/N AJE00301 and up, CS-23, Amendment 4: 23.1301, 23.1309, 23.1457,

with upgraded FDR and CVR 23.1459

FAR 23, Amendment 58: 23.1457, 23.1459

Air Ambulance variant (see Note 6)

For airplanes S/N AJE00301 and up, CS-23 Amendment 0: 23.613, 23.787, 23.1307,

23.1322, 23.1365, 23.1441

CS-23 Amendment 4: 23.853, 23.1301, 23.1309, 23.1310, 23.1443, 23.1445, 23.1447, 23.1585

for airplanes S/N AJE00301 and up, with upgraded avionics (see NOTE 7)

CS-23 Amendment 0: 23.1321, 23.1322, 23.1325,

23.1365, 23.1543

CS-23 Amendment 4: 23.1301, 23.1303, 23.1306, 23.1308, 23.1309, 23.1310, 23.1311, 23.1323,

23.1331, 23.1431

CS-23, Amendment 6: 23.2010, 23.2525, 23.2610 The detailed design standards used as a means of compliance in accordance with para. 23.2010 are documented in PZL DDS Summary Report ref. no. DT/Z/530/M28/2025, Issue 1, dated 30-07-2025

3. Special Conditions: SC-B23.div-01 - Human Factors - Integrated

Avionic System (for airplanes with upgraded

avionics – PZL Change G38)

none 3. Exemptions:

none 4. Deviations:

Equivalent Safety Level FAR 23.1361(a) - Master 5. Equivalent Safety Findings:

Switch Arrangement

6. Requirements elected to

comply:

none

FAR Part. 34 Subp. B, FAR Part. 36 App. G., and: 7. Environmental Standards:

Annex 16 ICAO, Part II, Chapter 10: Aircraft Noise

Certification,

8. (Reserved) Additional National

Requirements:

none

9. (Reserved) none



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C.III Technical Characteristics and Operational Limitations

1. Type Design Definition: specification sheet No. 28.15.0000.000.000

2. Description: The PZL M28 Model 05 is an all metal strut-braced high

wing twin engine turboprop STOL airplane, with twin vertical tails and a tricycle non-retractable landing gear

featuring a steerable nose wheel

3. Equipment:

Standard: For airplanes S/N AJE001-19 up to AJE002-10:

as defined in Section 7 of the Airplane Flight Manual

(M28/14/99).

For airplanes S/N AJE00301 and up:

as defined in Section 7 of the PZL M28 Airplane Flight

Manual, Ref. No. M28/10/2002

Optional & Operational: For airplanes S/N AJE001-19 up to AJE002-10:

as defined in Section 9 of the Airplane Flight Manual

(M28/14/99 Issue).

For airplanes S/N AJE00301 and up:

as defined in Section 9 of the PZL M28 Airplane Flight

Manual, Ref. No. M28/10/2002

4. Dimensions:

Length 13.10 m (43 ft)
Height 4.90 m (16 ft 1 in)
Wing span 22.06 m (72 ft 4 in)
Wing area 39.72 m² (427.5 sq.ft.)

5. Engine:

5.1.1 Model: PT6A-65B turboprop with a free turbine, reduction ratio

of 0.0568:1

5.1.2 Type Certificate: E4EA

5.1.3 Limitations: For power-plants limits refer to Airplane Flight Manual,

PZL M28 with PT6A-65B Engines ref No.

M28/14/99 - for airplanes S/N AJE001-19 up to AJE002-

10,

M28/10/2002 - for airplanes S/N AJE00301 and up.

5.1.4. Engine Performance: Shaft

errormance:	Horse Power	Torque	Prop Speed	Turbine Speed	Exhaust Gas Temp.
	SHP	PSIG	rpm	%	°C
	1100*	43.34	1700	104	820



Takeoff

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 Max. Continuous
 1100**
 43.34
 1700
 104
 810

 Max. Cruise
 1000***
 43.34
 1700
 104
 800

* attainable up to 50.5 °C; ** attainable up to 45.5 °C; *** attainable up to 42.5 °C

5.1.5 Number of engines: 2

6. Load factors:

Flaps Up n=+3.0, -1.0 Flaps Down n=+2.0, 0

7. Propeller:

7.1 Model: HC-B5MP-3D/M10876ANSK five-blade, all-metal,

constant-speed, with WOODWARD speed governor

(3032082A) Hartzell Propeller Inc. (USA)

7.2 Type Certificate: P44GL

7.3 Number of blades: 5 (five)

7.4 Diameter: 2.820 m (9 ft 3in)

7.5 Sense of Rotation: Clockwise

8. Fluids:

8.1 Fuel: Aviation kerosene type JET A, JET A-1, JET A-2 and

approved equivalents as per P&WC Bulletin No. 13044.

Equivalents: F34, F35, F40, F43, F44, JP-4, JP-5, JP-8, AVTUR, AVTAG, AVTAC, CAN/C.G.SB.3.23-M86, CAN/C.G.SB.3.22-M86, CAN/C.G.SB.3.GP-24Ma, AIR 3404, AIR 3405, AIR 3407, RT acc. to GOST 16564-71.

8.2 Oil Aero Shell Turbine Oil 500, Royco Turbine Oil 500, Mobil

Jet Oil II, Castrol 5000, BP Turbo Oil 2380 - in

accordance with Pratt & Whitney Bulletin No. 13001.

8.3 Coolant: N/A

9. Fluid capacities:

9.1 Fuel: 1766 kg (2278 l), (3894 lbs; 602 US Gal.)

9.2 Oil: 2 x 9.45 l (2.5 US gal)

9.3 Coolant system capacity: N/A

10. Air Speeds:

Airspeed Limitations: IAS [km/h] CAS [km/h] Max. Operating (Limit) Speed, V_{mo} 355 345

Design Maneuvering Speed, V_A 244 238

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Max.	Flar	s-Exte	ended	Sne	ed.	Vcc
IVIUA.	I IU	ノン ヒヘい	LIIUCU	JUC	.cu,	V FF

Flaps 15°	215	210
Flaps 40°	200	190
Max. Spoiler-Deployed Speed, V _{NS}	215	210
Minimum Control Speed, V _{MC}	153	146

11. Maximum Operating

Altitude:

- without oxygen supply system 3000 m (9,842 ft)

- with crew oxygen supply system provided 7620 m (25,000 ft)

12. Allweather Operations Capability: - VFR flights, day and night

- IFR flights, day and night

13. Weights:

Max. Zero-Fuel 6900 kg Max. Payload 2300 kg

Note:

max. 2000 kg in Cargo/Passenger Cabin (inclusive of max. 40 kg on baggage shelf in

fuselage rear part)

max. 300 kg in under fuselage baggage pod

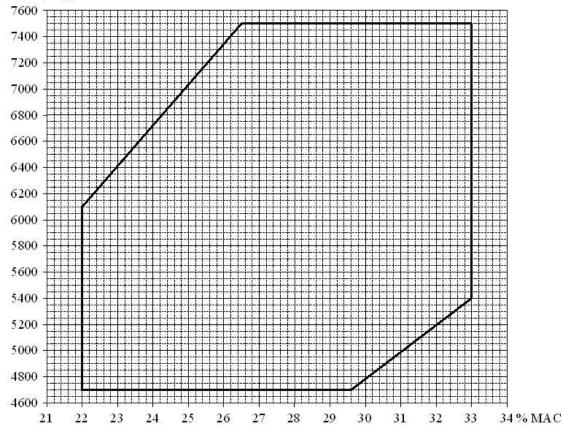
Minimum Weight for Flight 4700 kg
Max. Baggage in Underfuselage Pod 300 kg
Max. Baggage on Baggage Shelf 40 kg
Hoist Lifting Capacity Max: 700 kg

14. Centre of Gravity Range:



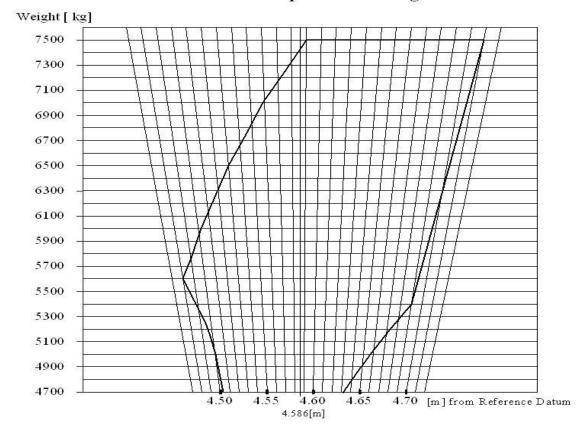
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Weight [kg]



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M28 05 Airplane C.G. Range



15. Datum: 2.470 m (97.24 in) Frame No. 9, Forward (see AFM, Chapter 6, fig. 6.1)

16. Control Surface Deflections:

Ailerons:	Up Down	22° ± 1° 16° 20′± 1°
Aileron Trim Tab:	Up Down	14°± 1° 14°± 1°
Elevator:	Up Down	27°± 1° 19°± 1°
Elevator Trim Tab:		
(Elevator Neutral)	Up	15°± 1° (19°± 1°)*
	Down	25°±1° (21°±1°)*

(*) On airplanes S/N AJE00339 and subsequent and S/N AJE00338 and prior post Service Bulletin E/12.117/2013.

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Rudder LH:	Inboard	16°± 1°
	Outboard	22°± 1°
Rudder RH:	Inboard	16°± 1°
	Outboard	22°± 1°
Rudder Trim Tab:		
(Rudder Neutral)	Left	15°± 1°
	Right	15°± 1°
Wing Flaps:	Takeoff	15°± 1°
	Landing	40°± 1°
Spoilers:	Inboard	45°± 1°
	Outboard	60°± 1°
	1LD - LLI and DLI lovalling n	sint on frama No. O

17. Levelling Means: 1LP = LH and RH levelling point on frame No. 9

(see AFM, Chapter 6, fig. 6.1)

18. Minimum Flight Crew: 2 (two) pilots

19. Maximum Passenger Seating

Capacity:

- passenger transport, max. 19 passengers;

passenger/cargo transport mix, max 18 passengers;

- version of improved standard, max 13 passengers

20. Baggage/Cargo Max. payload.2300 kg (5070 lbs) i.e:

Compartments: - in cargo/passenger cabin max 2000 kg (4408 lbs)

(on baggage shelf in fuselage rear part max 40 kg (88

lbs)

- in underfuselage baggage pod - max. 300 kg (662 lbs)

21. Wheels and Tyres: Main wheel tyre size 720 x 310 mm (28.30 x 12.20 in)

Nose wheel tyre size (Type 6.50x10 – GOOD YEAR)

561x169 mm (22.10x6.65 in)

22. Landing gear: Fixed, tricycle type, with a steerable nose wheel

- Main Gear: rocker-type with a single-chamber shock absorber,

- Nose Gear: rocker-type, with a double-chamber shock absorber,

Nose Wheel Controlling Angle \pm 15 $^{\circ}$

Nose Wheel Controlling Angle with

Steering OFF

 \pm 45 $^{\circ}$

23. Max. Service Ceiling: 7620 m (25,000 ft)

24. Operating Ambient Temperature Range:

 -50° C to $+50^{\circ}$ C

25. (Reserved):



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C.IV Operating and Service Instructions

1. Flight Manual:

For airplanes S/N AJE001-19* up to AJE002-10*: PZL M28 with PT6A-65B Engines: Airplane Flight Manual (P/N M28/14/99), Issue Dec. 1999.

For airplanes S/N AJE00301* and up: PZL M28 Airplane Flight Manual, Ref. No.: M28/10/2002, Issue April 2002.

*The serial number system of the M28 05 airplane is as follows: AJE001-XZ, AJE002-XZ, AJE003XZ and up. The XZ is the number of airplane in series.

2. Technical Manual:

For airplanes S/N AJE001-19 up to AJE002-10 PZL M28 Maintenance Manual (P/N M28/4/95/PBD), Issue Dec. 1999, including Sec. 4: "AIRWORTHINESS LIMITATIONS" and Sec. 5: "MAINTENANCE SCHEDULE",

For airplanes S/N AJE00301 and up: PZL M28 Maintenance Manual, Ref. No.: M28/11/2002, Issue April 2002, including Sec. 4: "Airworthiness Limitations" and Sec. 5: "Maintenance Schedule".

- 3. Repair Manual: Repair Manual PZL M28 Airplane ref No. M28/1/2001
- 4. Manual for Operation: see related Flight Manual section 9.
- 5. Spare Parts Catalogue:

For airplanes S/N AJE001-19 up to AJE002-10: Illustraded Parts Catalog, ref No. M28/14/97/LTO-3

For airplanes S/N AJE00301 up to AJE00309: Illustraded Parts Catalog, ref No. M28/10/2004

For airplanes S/N AJE00310 and up: Illustraded Parts Catalog, ref No. M28/04/2010

- 6. Table of Dimensions, Limits and Clearances: see Chapter 6. Of appropriate Maintenance Manual
- 7. Instruments and aggregates: see

for standard equipment:

for airplanes S/N AJE001-19 up to

AJE002-10

for airplanes S/N AJE00301 and up

As defined in Section 7 of the Airplane Flight

Manual (M28/14/99)

As defined in Section 7 of the PZL M28 Airplane

Flight Manual, Ref. No. M28/10/2002

for optional & operational equipment

for airplanes S/N AJE001-19 up to

AJE002-10

for airplanes S/N AJE00301 and up

As defined in Section 9 of the Airplane Flight Manual

(M28/14/99 Issue)

As defined in Section 9 of the PZL M28 Airplane Flight

Manual, Ref. No. M28/10/2002



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8. Airplane Service Life, and Component TBOs:

- a) For airplanes S/N AJE001-19 up to AJE002-10 as defined in Sec. 4 of M28 Maintenance Manual Ref. No. M28/4/95/PBD, Issue Dec. 1999.
- b) For airplanes S/N AJE00301 and up as defined in Sec. 4 of M28 Maintenance Manual Ref. No. M28/11/2002, Issue April 2002.

9. OSD:

OSD FC M28 02-W DTD/108/2015, Initial Issue from 29 Oct 2015, or later approved Revision

10. MMEL:

MMEL PZL M28 02-W M28 05, Original Issue from 20 May 2015, or later approved Revision

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C.V Notes

1. Flight in known icing condition is permitted, when certified IPS (ice protection system) is installed and is operational. This applies to S/N AJE00339 and up.

- 2. Flight in known icing condition is permitted, when certified IPS (ice protection system) is installed and is operational. This applies to prior airplanes with Bulletin no. E/12.115/2013 "Installation of ice protection system certified for flight in known and forecast icing conditions" incorporated. From S/N AJE00339 and up the IPS is an option
- Flight in known or forecast icing conditions is prohibited when certified IPS (ice protection system) is not installed. This applies to S/N from AJE001-19 up to AJE002-10 airplanes.
- 4. This Type Certificate applies to aircraft S/N: AJE001-19 up to AJE002-10, and to aircraft S/N AJE00301 and up.
- 5. For airplanes in service, if operators are going to extend the airframe service life, they must incorporate SB E/12.101R3/2014 and use chap 4 of rev 52 of MM M28/11/2002 dated May 11, 2015 or later EASA approved revisions. Any repairs/modifications done to airplanes with this modification must comply with the certification basis listed above on this TCDS. This modification must be accomplished after the airplane reaches 7800-8000 flight hours or 11300-11500 landings (whichever is first).
- 6. For airplanes equipped with the Air Ambulance Variant PZL G39, they must incorporate AFM Supplement 9.40B and AMM Chapters 25, 35 and 38.
- 7. For airplanes equipped with the Avionics Upgrade PZL G38, they must incorporate AFM Supplements 9.32B and 9.100 and AMM Chapters 22A, 34A and 39. Limited to only aircraft serial numbers AJE00353 and AJE354 and aircraft must be equipped with FIKI change PZL No G11.

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SECTION ADMINISTRATIVE

I. Acronyms & Abbreviations

AMM - Aircraft Maintenance Manual

CRI - Certification Review Item

FAR - Federal Aviation Regulations

EASA - European Aviation Safety Agency

IAS - Indicated Airspeed

KIAS - Indicated Airspeed [knots]

MAC - Mean Aerodynamic Chord

POH - Pilot's Operating Handbook

RPM - Rotations per Minute

FIKI - Flight Into Known Icing

SLD - Supercooled Large Droplets

TCDS - Type Certificate Data Sheet

II. Type Certificate Holder Record

Zakład Lotniczy "PZL Mielec" Sp. z o.o.

Ul. Wojska Polskiego 3, 39-300 Mielec, POLAND

Polskie Zakłady Lotnicze Sp. z o.o.

Ul. Wojska Polskiego 3, 39-300 Mielec, POLAND

III. Change Record

Issue	Date	Changes	TC Issue No.
		& Date	
Issue 01	24 October	Initial Issue	Initial Issue,
	2005		24 October
			2005
Issue 02	21 April,	Introduction of maritime patrol (designation PZL	02.
	2006	M2805-MPW) and Border Guard missions (designation	21 April 2006
		PZL M28 05-SG) in Section3. Installation of ice protection	
		system, approved on a non-hazard basis only. Flight in	
		known or forecast	
		icing conditions is prohibited	
Issue 03	21	Corrections to Vmo 335 to 355 km/hr on Pages 11 and 18	03.
	December	Correction to propeller designation from HC-BP5MP-	21 December
	2006	3D/M10876ANSK to HC-B5MP-3D/M10876ANSK on pages 11	2006
		and 18.	
Issue 04	14 June	Transition to new TCDS layout and editorial changes.	04.
	2013		14 June 2013

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		Introduction of airplane operation in icing conditions for model PZL M28 05 and PZL M28 02-W	
Issue 05	03 July 2013	Information on entry of earlier approved Major Change with respect to the service life extension of earlier approved Major Change with respect to the Approval No 10036658. Editorial changes and misprint corrections.	05. 03 July 2013
Issue 06	07 April 2014	Introduction of elevator trim tabs new angular movements and editorial changes.	06. 07 April 2014
Issue 07	04 Dec 2014	Editorial changes and misprint corrections related to approved Major Change Approval No 1004755 with respect to the service life extension	07. 04 Dec 2014
Issue 08	03 Nov 2015	OSD FC and MMEL to include, editorial changes	08. 03 Nov 2015
Issue 09	18 June 2020	Clarification and Typo corrections to TCDS information.	09. 18 June 2020
Issue 10	26 January 2022	Clarification to TCDS information.	10. 26 January 2022
Issue 11	27 January 2022	Typo corrections to TCDS information.	11. 27 January 2022
Issue 12	31 July 2025	Update after Major Change Approvals No. 10087599 (Air Ambulance) and 10087692 (Upgrade of Avionics).	12. 31 July 2025