



TYPE-CERTIFICATE DATA SHEET

No. EASA.E.108

for
PSR T01 Engine

Type Certificate Holder
M&D Flugzeugbau GmbH & Co. KG

Streeker Straße 5b
26446 Friedeburg
Germany

For Models: PSR T01



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I. General

1. Type/ Model/ Variants

PSR T01

2. Type Certificate Holder

M&D Flugzeugbau Gmbh & Co. KG
Streeker Straße 5B
26446 Friedeburg
Germany

Design Capability reference: DOA EASA.21J.603

3. Manufacturer

Draline b.v.
Pannenweg 270
6031 RK Nederweert
The Netherlands

M&D Flugzeugbau Gmbh & Co. KG
Streeker Straße 5B
26446 Friedeburg
Germany

4. Date of Application

20 July 2006

5. EASA Type Certification Date

31 October 2014



II. Certification Basis

1. State of Design Authority Certification Basis

Germany (*previously: The Netherlands*)

2. Reference Date for determining the applicable airworthiness requirements

30 August 2011

3. EASA Certification Basis

3.1. Airworthiness Standards

CS-22, Subpart H dated 14 November 2003

3.2. Special Conditions (SC)

SC 1	Applicability	SC 10	Endurance Test
SC 2	Functioning	SC 11	Operation Test
SC 3	Accessory Attachment	SC 12	Cyclic Endurance Test
SC 4	Engine Control System	SC 13	Rotor Containment
SC 5	Vibration	SC 14	Containment
SC 6	Fuel and Induction System	SC 15	Continued Rotation
SC 7	Lubrication System	SC 16	Amendment to CS 22.1823(c)
SC 8	Vibration Test	SC 17	Safety Analysis
SC 9	Calibration test	SC 18	Selection of engine power and thrust rating

3.3. Equivalent Safety Findings

None

3.4. Deviations

None

3.5. Environmental Protection

- CS-34.1 Fuel Venting
- CS-34.2 Smoke Number



III. Technical Characteristics

1. Type Design Definition

The Engine Type Design is defined in PSR T01 Build Standard Version 13, Standard J

2. Description

Single shaft turbojet engine featuring a single stage centrifugal compressor, a single stage axial turbine, an annular combustor and a single lane digital electronic control system.

3. Equipment

The Engine equipment is specified in PSR T01 Installation Manual.

The engine Type Design covers an aircraft mounted Control Unit and an aircraft mounted Fuel Board consisting of electrical pump, filter and valve.

4. Dimensions

- Overall Length: 380 mm
- Diameter: 140 mm

5. Dry Weight

- 4530g (*without fluid and instrumentation*)
- Control unit: 540g
- Fuel board: 1800g

6. Ratings

- Max. Thrust (5 Minutes): 230N
- Max. Continuous Thrust: 180N

7. Control System

The engine is equipped with a single lane digital electronic control unit.

8. Fluids (Fuel, Oil, Coolant, Additives)

Approved fuels and oils are listed in PSR T01 Instruction Manual.

9. Aircraft Accessory Drives

The engine design does not provide accessory drives.

10. Maximum Permissible Air Bleed Extraction

Not applicable



IV. Operating Limitations

1. Temperature Limits

Gas Temperatures EGT:

- Max. and continued thrust: 680°C
- Starting on Ground: 850°C

Fuel Temperatures:

- 0°C up to +30°C

2. Speed Limits

- Max. Thrust: 108.500 rpm
- Max. Continuous Thrust: 100.000 rpm

3. Pressure Limits

3.1 Fuel Pressure

Max. fuel pressure < 10 bar

3.2 Oil Pressure

Not applicable

4. Oil capacity, consumption limit

According to the PSR T01 Instruction Manual



V. Operating and Service Instructions

- Installation Manual PSR T01 Installation Instructions Version 3, 16 October 2014
- Instructions Manual PSR T01 Instruction Manual Version 13, 16 October 2014
- Maintenance Manual PSR T01 Maintenance Manual Version 4, 20 November 2014
- Overhaul Manual PSR T01 Overhaul Manual Version 2, 20 September 2014
- Service Bulletins As issued

VI. Notes

1. The engine must not be used for performing take-off operation, flights in rain and hail conditions and in icing conditions.
2. The engine is approved for installation in powered sailplanes according to CS-22 only.
3. Information on electromagnetic compatibility is contained in chapter 3.1.5 of the Installation Manual.
4. The ratings shown under III.6. are achieved at sea level and ISA standard day conditions using a defined test bed configuration for the air intake and exhaust system at a lower fuel heating value of 42798 kJ/kg.
5. The EASA approved Airworthiness Limitations Section of the Instructions for Continued Airworthiness is published in the applicable PSR T01 Maintenance Manual, chapter 3.1, "Airworthiness Limitations".



SECTION: ADMINISTRATIVE

I. Acronyms and Abbreviations

Not applicable

II. Type Certificate Holder Record

31.10.2014 until 31.03.2025:

Draline b.v.
Pannenweg 270
6031 RK Nederweert
The Netherlands

From 31.03.2025:

M&D Flugzeugbau Gmbh & Co. KG
Streeker Straße 5B
26446 Friedeburg
Germany

III. Change Record

Issue	Date	Changes	TC issue
Issue 01	31 Octobre 2014	Initial Issue	Initial Issue, 31 October 2014
Issue 02	31 March 2025	TC Transfer from Draline to M&D Flugzeugbau GmbH, minor updates regarding manuals. Striked through sentence " Overhaul is not permitted until an approved Engine Manual has been published. " is deleted	Re-issued on 31 March 2025

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