TYPE-CERTIFICATE DATA SHEET

No. P.006

for Propeller
MT-Fixed Pitch Propeller Series

Type Certificate Holder
MT-Propeller Entwicklung GmbH

Flugplatzstraße 1
94348 Atting
Germany

For Models:
MT( )( )( ) -1 ( )
MT( )( )( ) -2 ( )
MT( )( )( ) -3 ( )
MT( )( )( ) -4 ( )
MT( )( )( ) -6 ( )

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I. General

1. Type / Models
MT / MT( )( )( ) -1 ( ), MT( )( )( ) -2 ( ), MT( )( )( ) -3 ( ), MT( )( )( ) -4 ( ), MT( )( )( ) -6 ( )

2. Type Certificate Holder
MT-Propeller Entwicklung GmbH
Flugplatzstraße 1
94348 Atting
Germany

Design Organisation Approval No.: EASA.21J.020

3. Manufacturer
MT-Propeller Entwicklung GmbH

4. Date of Application

MT( )( )( ) -1 ( )	MT( )( )( ) -4 ( )	MT( )( )( ) -3 ( )	MT( )( )( ) -2 ( )	MT( )( )( ) -6 ( )
04 October 1982	08 March 1984	17 February 1986	11 November 1986	27 November 1986

5. EASA Type Certification Date

MT( )( )( ) -1 ( )	MT( )( )( ) -4 ( )	MT( )( )( ) -3 ( )	MT( )( )( ) -2 ( )	MT( )( )( ) -6 ( )
02 September 1983	07 August 1984	21 March 1986	21 November 1986	16 April 1987

II. Certification Basis

1. Reference Date for determining the applicable airworthiness requirements
04 October 1982

2. EASA Certification Basis

2.1. Airworthiness Standards
14 CFR Part 35 Amendment 35-7 effective December 28, 1995

Note: Application was made to LBA-Germany before EASA was established. The applicable airworthiness standards were established in accordance with the rule in Germany at the time of application. Initial certification was based on airworthiness standard 14 CFR Part 35 Amendment 35-5, effective September 11, 1980. Update of airworthiness standards up to Amendment 35-7 was made following application from MT-Propeller, dated December 13, 2004.

2.2. Special Conditions (SC)
None

2.3. Equivalent Safety Findings (ESF)
None

2.4. Deviations
None

III. Technical Characteristics

1. Type Design Definition
The MT propeller model is defined by a main assembly drawing and associated parts list. The design configurations have a different spacer and spinner arrangement and comprises a number of propellers varying in diameter, pitch, and load limit. Propeller operational limits determine the particular propeller variants (see paragraph "IV. Operating Limitations").

Design Configuration "1"
Drawing No. P-687, dated June 19, 2001 (*)
Parts List No. S-133, dated June 19, 2001 (*)

Design Configuration "2"
Drawing No. P-688, dated June 19, 2001 (*)
Parts List No.S-134, dated June 19, 2001 (*)

Note: (*) Or later approved revision. Following a revision, the Drawing No. or the Parts List No. includes the corresponding revision letter, e.g. from P-687 in P-687-A.

2. Description
Single piece, 2-blade, fixed pitch propeller constructed of a laminated wood structure with or without composite glass fibre cover. Optionally, the leading edge of the blades is protected by a metal erosion protection sheath.
Propeller assembly is completed with a spacer and a spinner assembly according to the Type Design Definition.

3. Equipment
For the spinner refer to MT-Propeller Service Bulletin No. 13.

4. Dimensions and Weight
Weight without spacer, spinner, and attaching parts:

	Maximum Diameter (cm)	Blade-Pitch at 75% Radius Station (cm)		Approximate Weight (kg)
		Min.	Max.	
MT( )( )( ) -1 ( )	160	40	160	3,2
MT( )( )( ) -2 ( )	183	60	170	5,5
MT( )( )( ) -3 ( )	188	89	190	6,7
MT( )( )( ) -4 ( )	188	90	190	7,9
	200	100	200	9,2
MT( )( )( ) -6 ( )	211	100	210	9,6
	233	100	210	12,8
	248	100	210	13,2
	256	100	210	13,5

5. Hub / Blade Combinations
Not applicable (single piece propeller)

6. Control System
Not applicable (fixed pitch propeller)

7. Adaptation to Engine
Propeller flange as identified by a letter code in the propeller designation (see note VI.4.)

8. Direction of Rotation
Direction of rotation (viewed in flight direction) as identified by a letter code in the propeller designation (see note VI.4.)

IV. Operating Limitations

1. Approved Installations
This propeller has been tested on a piston engine.

2. Maximum Take Off Power and Speed

	Maximum Diameter (cm)	Max. Take Off Power (kW)	Max. Take Off Speed (rpm)
MT( )( )( ) -1 ()	160	65	3600
MT( )( )( ) -2 ( )	183	100	2800
MT( )( )( ) -3 ( )	188	120	2700
MT( )( )( ) -4 ( )	188	134	2700
	200	156	2340
MT( )( )( ) -6 ( )	211	111	2700
	233	224	2200
	248	168	2100
	256	179	2000

3. Maximum Continuous Power and Speed

	Maximum Diameter (cm)	Max. Continuous Power (kW)	Max. Continuous Speed (rpm)
MT( )( )( ) -1 ()	160	65	3600
MT( )( )( ) -2 ( )	183	100	2800
MT( )( )( ) -3 ( )	188	120	2700
MT( )( )( ) -4 ( )	188	134	2700
	200	156	2340
MT( )( )( ) -6 ( )	211	111	2700
	233	224	2200
	248	168	2100
	256	179	2000

4. Propeller Pitch Angle
See § III.4. Dimensions and Weight

V. Operating and Service Instructions

Manuals	
Operation and Installation Manual	No. E-112 Issue June 24, 1983 (*)

Instructions for Continued Airworthiness (ICA)	
Operation and Installation Manual	No. E-112 Issue June 24, 1983 (*)
Overhaul Manual and Parts List	No. E-497 Issue March 26, 1996 (*)
Service Bulletins, Service Letters, Service Instructions	as published by MT-propeller

(*) or later approved revision

VI. Notes

1. The EASA approved Airworthiness Limitations Section of the Instructions for Continued Airworthiness is published in the applicable " Operation and Installation Manual " document, chapter 8 "Airworthiness Limitations".

2. The suitability of a propeller for a certain aircraft/engine combination must be demonstrated within the scope of the type certification of the aircraft.

3. EASA Type Certificate and Type Certificate Data Sheet No. P.006 replace LBA-Germany Type Certificate and Type Certificate Data Sheet No. 32.110/12.

4. Propeller designation system:

MT	200	R	180	-	4	G	( )
1	2	3	4		5	6	7

1 MT-Propeller Entwicklung GmbH

2 Propeller diameter in “cm”

3 Letter code for direction of rotation and installation:
- R = right-hand / tractor
- RD = right-hand / pusher
- L = left-hand / tractor
- LD = left-hand / pusher

4 Propeller pitch in “cm” measured at 75% blade radius station

5 Propeller load limit class – See paragraph “IV. Operating Limitations”

6 Letter code for flange design configuration according to MT-Report No. E-635

7 Letter code for minor deviations from item 6) which do not affect airworthiness

SECTION: ADMINISTRATIVE

I. Acronyms and Abbreviations

n/a

II. Type Certificate Holder Record

n/a

III. Change Record

TCDS Issue	Date	Changes	TC issue
Issue 01	29 June 2005	Initial Issue	Initial Issue, 29 June 2005
Issue 02	02 March 2010	MT()()()-6(): Approval of 224 kW / 2200 rpm / Diameter 233 cm Take-Off and Maximum Continuous Power Ratings (Certificate 10029066)	Initial Issue, 29 June 2005
Issue 03	19 February 2016	MT()()()-6(): Approval of 179 kW / 2000 rpm / Diameter 256 cm Take-Off and Maximum Continuous Power Ratings (Certificate 10056793)	Initial Issue, 29 June 2005
Issue 04	22 August 2018	-MT()()()-6(): Approval of 111 kW / 2700 rpm / Diameter 211 cm Take-Off and Maximum Continuous Power Ratings (Certificate 10066263) -Include reference to the applicable service bulletin for the spinner -Various editorial changes	Initial Issue, 29 June 2005

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