European Aviation Safety Agency

EASA

TYPE-CERTIFICATE
DATA SHEET

Number : P.006
Issue : 02
Date : 08 March 2010
Type : MT-Propeller Entwicklung GmbH
MT Fixed Pitch Propeller Series

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

5. Reference Date for Determination of the Applicable Requirements

04 October 1982

6. Certification Date

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

II. Certification Basis

1. Airwortiness Standards

FAR 35 Amendments 35-1 through 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 FAR 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.

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. Operational Limits”).

Design Configuration “1”
Drawing No. P-687, dated June 06, 2001 (*)
Parts List No. S-133, dated June 06, 2001 (*)

Design Configuration “2”
Drawing No. P-688, dated June 06, 2001 (*)
Parts List No.S-134, dated June 06, 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 fiber 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

None

4. Dimensions and Weight

Weight without spacer, spinner, and attaching parts:

	Maximum Diameter (cm)	Blade-Pitch at 75% radius station (cm)		Approximative 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( )	188 200	90 100	190 200	7,9 9,2
MT( )( )( )-6( )	211 233 248	100 100 100	210 210 210	9,6 12,8 13,2

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. 3.)

8. Direction of Rotation

Direction of rotation (viewed in flight direction) as identified by a letter code in the propeller designation (see note VI. 3.)

IV. Operational Limits

1. 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
MT( )( )( )-4( )	200	156	2340
MT( )( )( )-6( )	211	111	2300
MT( )( )( )-6( )	233	224	2200
MT( )( )( )-6( )	248	168	2100

2. 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
MT( )( )( )-4( )	200	156	2340
MT( )( )( )-6( )	211	111	2300
MT( )( )( )-6( )	233	224	2200
MT( )( )( )-6( )	248	168	2100

V. Operating and Service Instructions

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	as noted in the current List of Service Bulletins

(*) or later approved revision

VI. Notes

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

2. 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.

3. Propeller designation system:

			Propeller				
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 turning / tractor
L = left-hand turning / tractor
RD = right-hand turning / pusher
LD = left-hand turning / pusher

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

5 Propeller load limit class – See paragraph “IV. Operational Limits”

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

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