



TYPE-CERTIFICATE DATA SHEET

No. P.115

for Propeller

KS

Type Certificate Holder

TECHNOFLUG
Leichtflugzeugbau GmbH & Co.KG
Bahnhofstraße 20/1
78669 Wellendingen
Germany

For Models:

KS 1 C

KS 1 G



Intentionally left blank



TABLE OF CONTENTS

I. General	4
1. Type/ Model	4
2. Type Certificate Holder	4
3. Manufacturer	4
4. Date of Application	4
5. EASA Type Certification Date	4
II. Certification Basis	4
1. State of Design Authority Certification Basis	5
2. Reference Date for determining the applicable airworthiness requirements	5
3. EASA Certification Basis	5
3.1. Airworthiness Standards	5
3.2. Special Conditions	5
3.3. Equivalent Safety Findings	5
3.4. Deviations	5
III. Technical Characteristics	6
1. Type Design Definition	6
2. Description	6
3. Equipment	6
4. Dimensions	6
5. Weight	6
6. Hub/Blade-Combinations	6
7. Control System	6
8. Adaptation to Engine	7
9. Direction of Rotation	7
IV. Operating Limitations	8
V. Operating and Service Instructions	8
VI. Notes	8
1. Propeller designation system	9
SECTION: ADMINISTRATIVE	10
I. Acronyms and Abbreviations	10
II. Type Certificate Holder Record	10
III. Change Record	10



I. General

1. Type / Model

KS / KS 1 C and KS 1 G

2. Type Certificate Holder

TECHNOFLUG Leichtflugzeugbau GmbH & Co. KG
Bahnhofstraße 20/1
78669 Wellendingen
Germany

AP DOA: EASA.AP182

3. Manufacturer

TECHNOFLUG Leichtflugzeugbau GmbH & Co. KG

4. Date of Application

30th June 1992

Note: Application was made to EASA Member States before EASA was established. Refer to Commission Regulation (EU) No 748/2012. These propeller models are EASA certified based on member states approvals prior to EASA existence.

5. EASA Type Certification Date

01st September 1992

Note: KS 1 C and KS 1 G had been certified by LBA Germany (TC/TCDS 32.110/18).
This TCDS replaces LBA TCDS No 32.110/18.
Transfer date to EASA Type Certificate: 15th September 2021



II. Certification Basis

1. State of Design Authority Certification Basis

n/a

2. Reference Date for determining the applicable airworthiness requirements

30th June 1992

3. EASA Certification Basis

3.1. Airworthiness Standards

JAR-22 Part J, with Amendments 22/84/1, 22/84/2 und 22/86/1

3.2. Special Conditions

None

3.3. Equivalent Safety Findings

None

3.4. Deviations

None



III. Technical Characteristics

1. Type Design Definition

Master Drawings propellers KS 1 C and KS 1 G of 1992(*)
(*) = or later approved revisions

2. Description

The KS 1 C and KS 1 G are two-blade propellers, produced as composite parts with a foam core and glass fibre shell with uni-directional spar caps from glass fiber (KS 1 G) or carbon fibre (KS 1 C).

3. Equipment

n/a

4. Dimensions

Diameter

1 C : 120-158 cm

1 G: 120-160 cm

1 G ()-W: 65-79 cm

1 C ()-S: 90-120 cm

5. Weight

1 C : 1,5-2,3 kg

1 G: 1,5-2,5 kg

1 G ()-W: 0,7-1,0 kg

1 C ()-S: 0,7-1,2 kg

6. Hub/Blade-Combinations

n/a (single piece propeller)

7. Control System

n/a (fixed pitch propeller)



8. Adaptation to Engine

Hub flanges as identified by a letter in the propeller designation (refer to Note VI.7).

9. Direction of Rotation

Direction of rotation (viewed in flight direction) as identified by a letter-code in the propeller designation (refer to Note VI.5).



IV. Operating Limitations

KS -...	Maximum Take-Off Power and Speed		Maximum Continuous Power and Speed	
	[kW]	[1/min]	[kW]	[1/min]
1 C	37	2500	37	2500
1 G	47	2400	47	2400
1 G ()-W	19,6	6000	19,6	6000
1 C ()-S	40	4500	40	4500

V. Operating and Service Instructions

Manuals	German	English
Operator and maintenance Manual	Betriebs- und Wartungshandbuch P3*	Operating and Service Instruction P3*

Instructions for Continued Airworthiness (ICA)	German	English
Operator and maintenance Manual	Betriebs- und Wartungshandbuch P3*	Operating and Service Instruction P3*

(*): latest approved revision



VI. Notes

1. Propeller designation system

Systematik der Propellerkennzeichnung

KS	1	C	158	R	108	()	()
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

(1) Manufacturer TECHNOFLUG

(2) Load group

1 = max. engine power 60 kW

(3) Spar cap material

C = Carbon fibre, G = glass fibre

(4) Propeller diameter (cm)

(5) Direction of rotation

R = clockwise, L = counterclockwise

(6) Pitch in 0,75 R in cm, measured at the tangent of the airfoil pressure side

(7) Type of propeller hub flange

without letter = standard hub, L= hub centric bore, W= hub with cross bore,
S= smaller diameter for higher RPM

(8) Further data about small changes, not affecting the airworthiness. Combination of several letters and numbers is possible.



SECTION: ADMINISTRATIVE

I. Acronyms and Abbreviations

n/a

II. Type Certificate Holder Record

Since December 2018:

TECHNOFLUG Leichtflugzeugbau GmbH & Co. KG
Bahnhofstraße 20/1
78669 Wellendingen
Germany

Until December 2018:

TECHNOFLUG Leichtflugzeugbau GmbH
Dr.-Kurt-Steim-Str. 6
78713 Schramberg
Germany

III. Change Record

Issue	Date	Changes	TC Issue No.& Date
Issue 01	15 September 2021	Initial Issue due to change in TC holder address	Initial Issue, 15 September 2021
Issue 02	17 September 2021	Editorial corrections	Issue 02, 17 September 2021
Issue 03	12 June 2023	KS 1 C ()-S added	

-END-

