Civil Aviation Authority
United Kingdom

TYPE-CERTIFICATE DATA SHEET

UK.TC.P.00100

for

KS 1 Propeller

Type Certificate Holder
TECHNOFLUG Leichtfluzeugbau GmbH & Co. KG
Bahnhofstrasse 20/1
78669 Wellendingen
Germany

Model(s):	KS 1 C KS 1 G
Issue:	1
Date of issue:	10 January 2024

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Section 1 General

I. General

This Type-Certificate Data Sheet (TCDS) is the concise definition of the type-certificated product accepted and or approved by the CAA in the UK for the affected types and models.

This TCDS includes:

1. Details of the type design that affect the TCDS that have been approved or accepted by the CAA in the UK since 01 January 2021.

2. Details of the type design that affected the TCDS and were approved or accepted by EASA before 01 January 2021, and were incorporated into LBA TCDS 32.100/18 and are therefore accepted by the UK under Article 15 of Annex 30 of the UK-EU Trade and Cooperation Agreement.

Section 2 KS 1 C and KS 1 G

II. General

1. Type / Variant / Model

a) Type: KS 1
b) Variant or Model: KS 1 C and KS 1 G

2. Type Certificate Holder

TECHNOFLUG Leichtflugzeugbau GmbH & Co. KG

Bahnhofstrasse 20/1

78669 Wellendingen

Germany

3. Manufacturer

TECHNOFLUG Leichtflugzeugbau GmbH & Co. KG

4. Date of Application

30th June 1992

Note: Application was made to an EASA member state prior to establishment of EASA. UK Reg. (EU) 748/2012 refers. These propeller models are approved in the UK and were EASA certified based on members state approval prior to EASA's existence.

5. Type Certification Date

1st September 1992

Note: KS 1 C and KS 1 G had been certified by the German LBA (TC/TCDS 32.110/18). Transfer date to EASA type certificate: 15th September 2021.

III. Certification Basis

6. Reference Date for determining the applicable airworthiness requirements

30th June 1992

7. Airworthiness Standards

JAR-22 Part J, with amendments 22/84/1, 22/84/2 and 22/86/1

8. Special Conditions

None

9. Exemptions

None

10. Deviations

None

11. Equivalent Safety Findings

None

12. Requirements Elected to Comply

None

13. Environmental Standards

Not applicable

IV. Technical Characteristic and Operating Limitations

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, glass fiber shell with uni-directional spar caps made from glass fiber (KS 1 G) or carbon fiber (KS 1 C).

3. Equipments

Not applicable

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

Not applicable – single-piece propeller

7. Control System

Not applicable – fixed pitch propeller

8. Adaptation to Engine

Hub flanges as identified by a letter in the propeller designation (refer to Note 1 (7)).

9. Direction of Rotation

Direction of rotation (viewed in direction of flight) as identified by a letter-code in the propeller designation (refer to Note 1 (5)).

10. 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

1. Operator and Maintenance Manual

Operating and Service Instruction P3 or later approved revision.

VI. Notes

1. Propeller Designation System

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 fiber, G = Glass fiber

(4) Propeller diameter (cm)

(5) Direction of rotation (in direction of flight)

R = clockwise, L = counterclockwise

(6) Pitch at 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. Combinations of several letters and numbers are possible

Section 3 Administration

I. Acronyms and Abbreviations

Acronym / Abbreviation	Definition
cm	centimeter
EASA	European Union Aviation Safety Agency
Kg	kilogram
LBA	Luftfahrt-Bundesamt
kW	Kilowatt
RPM	Revolutions per minute
TC	Type Certificate
TCDS	Type Certificate Data Sheet
TCH	Type Certificate Holder

II. Type Certificate Holder Record

TCH Record	Period
TECHNOFLUG Leichtflugzeugbau GmbH & Co. KG Bahnhofstrasse 20/1 78669 Wellendingen Germany	Present. No changes.

III. Amendment Record

TCDS Issue No.	TCDS Issue Date	Changes	TC Issue and Date
1	10 Jan 2024	Initial UK TC Issue – Administrative update to TCDS based upon grandfathered LBA TCDS 32.110/18. Now covered by EASA TCDS P.115. Introduction of KS 1 C ()-S	Issue 1 10 Jan 2024

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