

I. General

1. Type / Models

GT-Eliche GT-2 / GT-ELICHE GT-2/166, GT-ELICHE GT-2/173

2. Type Certificate Holder

GT PROPELLERS SNC DI TONINI GIAN CARLO & C.
VIA DEL COMERCIO, 7
47838 RICCIONE – RN
ITALY

Alternative Design Organisation Approval: AP315

3. Manufacturer

GT PROPELLERS SNC DI TONINI GIAN CARLO & C.

4. Date of Application

GT-ELICHE GT-2/166	GT-ELICHE GT-2/173	
14 November 1994	11 March 2002	

5. Certification Date

GT-ELICHE GT-2/166	GT-ELICHE GT-2/173	
10 November 1995	12 February 2003	

Note: EASA Type Certification of propeller model GT-ELICHE GT-2/166 had been covered previously by Italian Type Certificate E-26 and model GT-ELICHE GT-2/173 by Polish Certificate Z-DB-03/03.

The Type Certificate for the model GT-ELICHE GT-2/173 has been transferred from AERO SP.z.o. in Poland to GT PROPELLERS SNC DI TONINI GIAN CARLO & C. in Italy.

II. Certification Basis

1. Reference Date for determination of the applicable requirements

GT-ELICHE GT-2/166	14 November 1994
GT-ELICHE GT-2/173	11 March 2002

2. Certification Basis

2.1 Airworthiness Standards

GT-ELICHE GT-2/166	JAR-22, Subpart J, Change 4 dated 07 May 1987
GT-ELICHE GT-2/173	JAR-22, Subpart J Change 6 dated August 01, 2001

The GT-2/173 propeller was certified by the Polish Civil Aviation Office in the frame of the aeroplane AERO SP z.o.o. model AT-3R100 certification, on which this propeller was originally installed.

III. Technical Characteristics

1. Type Design Definition

Type Design Definition Propeller GT-ELICHE GT-2/166 & GT-2/173

Tractor variant Drawing 001/95 (*)

Pusher variant Drawing 002/95 (*)

(*) = or later approved revisions

2. Description

One-piece 2-blade fixed pitch, tractor propeller constructed of wood materials, protective layer of laminate.

3. Equipment

None

4. Dimensions

propeller diameter GT-ELICHE GT-2/166: 166 cm

propeller diameter GT-ELICHE GT-2/173: 173 cm

5. Weight

propeller GT-ELICHE GT-2/166: approx. 3,3 kg

propeller GT-ELICHE GT-2/173: approx. 3,8 kg

6. Hub/Blade-Combinations

not applicable (one-piece propeller)

7. Control System

not applicable (fixed pitch propeller)

8. Adaptation to Engine

See Note 1

9. Sense of Rotation

Sense of rotation (viewed in flight direction) corresponding to the particular letter in the propeller designation (see Note.3.)

IV. Operational Limits

1. Propeller Speed:

propeller GT-ELICHE GT-2/166: max. 3000 min⁻¹

propeller GT-ELICHE GT-2/173: max. 2500 min⁻¹

Should an overspeed occur, the propeller must be sent to the manufacturer for control

2. Driving Power

propeller GT-ELICHE GT-2/166: max. 59,6 kW
propeller GT-ELICHE GT-2/173: max. 75,0 kW

3. Driving Torque

propeller GT-ELICHE GT-2/166: max. 98,1 Nm
propeller GT-ELICHE GT-2/166: max. 121,0 Nm

V. Operating and Service Instructions

Operating- and Service Instructions Manual for propeller GT-ELICHE GT-2/166 and GT-2/173, N.E-001/96, Issue 1 April 1996 (*)

(*) = 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. The overhaul intervals recommended by the manufacturer are listed in the Instruction Manual N.E-001/96.
3. Propeller designation system

GT - 2 / 166/ 145- FW 100 S RT C
1 2 3 4 5 6 7 8 9

- 1 manufacturer
- 2 number of blades
- 3 diameter (in cm)
- 4 pitch (in cm)
- 5 material code
- 6 flange code
- 7 protective layer code
- 8 sense of rotation & installation code (RT: right-hand turning/tractor; LP: left-hand turning /pusher)
- 9 propeller central hole code

4. The following configurations are included in the two models:

GT-ELICHE GT-2/166: GT-ELICHE GT-2/166/145-FW 100 SRTC
GT-ELICHE GT-2/166/145-FW 101 SRTC
GT-ELICHE GT-2/166/145-FW 100 SLPC
GT-ELICHE GT-2/166/145-FW 101 SLPC

GT-ELICHE GT-2/173: GT-ELICHE GT-2/173/VRR-FW 101 SRTC

5. The propeller models are only certified for use in Powered Sailplanes and Very Light Aeroplanes.
