RZECZPOSPOLITA POLSKA
REPUBLIC of POLAND

Urząd Lotnictwa Cywilnego

Prezes Urzędu Lotnictwa Cywilnego
President of the Civil Aviation Authority

ŚWIADECTWO UZNANIA ZATWIERDZENIA TYPU
Type Approval Recognition Certificate

NUMER: **UL.A.00 – 007/2023**
Reference:

Niniejsze świadectwo uznania zatwierdzenia typu zaświadcza, że określony typ/model ultralekkiego statku powietrznego został uznany za akceptowalny w Rzeczypospolitej Polskiej zgodnie z obowiązującymi przepisami polskiego lotnictwa cywilnego i pozostaje w mocy przez czas nieokreślony, chyba że zatwierdzenie zostanie zrzeczone, zawieszone lub cofnięte oraz że został wpisany na listę typów zatwierdzonych prowadzoną przez Prezesa Urzędu Lotnictwa Cywilnego, o której mowa w przepisach wydanych na podstawie art. 33 ust. 2 i 4 ustawy – Prawo lotnicze (Dz.U. z 2022 r. poz. 1235, 1715, 1846, 2185 i 2642).

This Type Approval Recognition Certificate certifies that the ultralight aircraft type/model specified has been found acceptable in Republic of Poland in accordance with the applicable Polish Civil Aviation regulations and shall remain as such for an unlimited duration unless the approval is surrendered, suspended or revoked and has been entered on the list of approved flying device types managed by the President of the Civil Aviation Authority, referred to in the regulations issued on the basis of Art. 33 para 2 and 4 of the Aviation Law Act dated July 3rd, 2002 (JL. 2022, item 1235, 1715, 1846, 2185 and 2642).

Państwo projektu *State of Design*	**Ukraine**
Państwo produkcji *State of Manufacture*	**Ukraine**
Posiadacz zatwierdzenia typu *Type Approval Holder*	**Aeroprakt Ltd.** Polevaya Str. 24, 03056 Kiev, Ukraine
Wytwórca *Manufacturer*	**Aeroprakt Ltd.** Polevaya Str. 24, 03056 Kiev, Ukraine **Manufacturing co-operator (Aeroprakt Ltd. letter No 128, 03.10.2022):** Aeroprakt Manufacturing Sp. z o.o., 32-406 Zakliczyn, ul. Zadziele 10, Polska
Oznaczenie typu produktu *Product Type Designation*	**A32**
Numer zatwierdzenia typu *Type Approval Number*	**978-21: 978-21 1, 978-21 2**
Arkusz danych do zatwierdzenia typu *Type Certificate Data Sheet*	**978-21: 978-21 1, 978-21 2**
Przyjęte wymagania techniczne *Type Certification Basis*	**LTF-UL of 15 January 2019 (NfL 2-446-19)**
Uwagi *Remarks*	Approved by Deutscher Ultraleichtflugverband e. V. on: 21.05.2021 - 978-21 1, first edition 21.05.2021 - 978-21 2, first edition EZD ref. LTT-4.5460.11.2022

Z upoważnienia Prezesa Urzędu Lotnictwa Cywilnego
On behalf of President of the Civil Aviation Authority
Marcin Perkowski
Zastępca Dyrektora Departamentu Techniki Lotniczej
Deputy Director, Aviation Technical Departament
(pismo zostało wydane w postaci elektronicznej i opatrzone kwalifikowanym podpisem elektronicznym)
(the letter was published in electronic form and signed with a qualified electronic signature)

Data pierwszego wydania: **27.02.2023**
Date of original issue:
Data ostatniej zmiany:
Date of last revision: - -

Bundesrepublik Deutschland
Der Beauftragte

Musterzulassungsschein für Luftsportgeräte

Type Certificate

Nr.: 978-21 1

Das nachstehend bezeichnete Luftfahrtgerät wurde als Muster zugelassen auf Antrag von:

- Aeroprakt Ltd. -
- Polevaya str. 24 - 03056 Kiev (UKRAINE) -

Dieser Musterzulassungsschein wurde auf Grund der die Musterzulassung betreffenden Bestimmungen des Luftverkehrsgesetzes und der Luftverkehrs-Zulassungs-Ordnung in der am Tage der Ausstellung geltenden Fassung erteilt.

Die Musterzulassung gilt gemäß	
zugehörigem Geräte-Kennblatt-Nr.:	978-21 1
Bezeichnung des Gerätemusters:	A32
Bezeichnung der Baureihe:	Rotax 912 ULS / KievProp
Geräteart:	Dreiachs

Die Musterzulassung kann in den in § 4 Abs. 3 der Luftverkehrs-Zulassungs-Ordnung vorgesehenen Fällen widerrufen werden.

This type certificate has been issued on application of:

Aeroprakt Ltd.
Polevaya str. 24 - 03056 Kiev (UKRAINE)

This type certificate has been issued in accordance with the German Certification Regulations as in force on the day of first issue.

The type certification is effective in accordance with	
the appropriate data shet No.:	978-21 1
description of mark:	A32
description of model:	Rotax 912 ULS / KievProp
device type:	Dreiachs

The type certification may be revoked by the Deutscher Ultraleichtflugverband e. V. in cases provided in the German Certification Regulations.

Datum der Ausstellung / date of new issue
Großerlach, den 21.05.2021

DEUTSCHER ULTRALEICHTFLUGVERBAND DULV

Unterschrift / signature

LOGO DULV

Deutscher Ultraleichtflugverband e. V.

Representative of the Federal Ministry of Transport

Equipment data sheet for aerodynamically controlled microlight aircraft

Title page

Data sheet No. ……978-21 1
Model.....…… A32
Series.....……Rotax 912 ULS / KievProp
First edition……....……21.05.2021 r.
Last update...

I. General

Model.....A32

Series.....Rotax 912 ULS / KievProp

Manufacturer.....Aeroprakt Sp. z o.o.
Polevaya str. 24
03056 Kijów
Kraj: UKRAINA

Type certificate holder.....Aeroprakt Sp. z o.o.
Polevaya str. 24
03056 Kijów
Kraj: UKRAINA

II. Approval basis

Legal basis.....§1 LuftVZO in conjuction with
§10 LuftGerPV

Airworthiness requirements.....Airworthiness Requirements for
Aerodynamically Controlled
Ultralight Aircraft LTF-UL of
15 January 2019 (NfL 2-446-19)

Noise requirements.....LVL 2019 r.

III. Technical characteristics and operating limits

1. Construction characteristics

Construction.....Aluminum-metal
Wing arrangement.....high wing, strutted
Empennage arrangement.....tail
Empennage shape.....conventional
Landing gear.....tricycle
Engine arrangement.....nose, pusher
Seats.....2

2. Dimensions
Wing span.....9,45 m
Wing surface.....12,83 m^2
Length.....6,27 m
Height.....2,22 m

3) Control surfaces deflections

a) Ailerons
in neutral position.....profile chord
Deflection upwards.....15,5 degrees +/- 1 degree
Deflection downwards.....11,1 degrees +/- 1 degree
Measuring point distance to control surface axis mm

b) Rudder
to the left.....25 degrees +/- 1 degree
to the right.....25 degrees +/- 1 degree
Measuring point distance to control surface axis mm

c) Elevator
upwards.....15 degrees +/- 1 degree
downwards.....5 degrees +/- 1 degree
Measuring point distance to control surface axis mm

d) Flaps
upwards till.....0 degrees +/- degree
downwards till.....10 degrees +/- 1 degree
Measuring point distance to flap axis.....mm

Note:
Flap deflection limited to 10° (flap stage 1) for the time being

4. Power unit

a) Engine
Name.....Rotax 912 S, ULS, FR
Operating method.....4-stroke
Maximum power.....73,6 kW
Mixture preparation.....2 constant-pressure carburettors
Intake silencer.....Airbox Aeroprakt
Muffler.....Rotax 912 UL
Additional muffler.....---

b) Gearbox
Name.....Rotax
Type.....gear
Reduction ratio.....2,43 : 1

c) Propeller
Name.....KievProp
Number of blades.....3
Material of blades.....GRP / CFRP
Diameter.....1,71 m
Adjustability.....ground adjustable

5. Energy storage / fuel quantities

Energy source.....Fuel: Normal, Super, Super Plus, AVGAS
Capacity.....2 x 45 litres
non-usable fuel.....2 litres

6. Rescue system

Junkers Magnum 601

7) Noise (at maximum take-off mass)

Noise value.....62,8 dBA
Propeller revs.....1978 RPM

8. Airspeeds (all data IAS)

Never exceed speed V_{NE}.....240 km/h

Maximum speed in level flight
at maximum continuous power V_H.....215 km/h

Design speed for maximum gust intensity V_B...208 km/h

Design maneuvering speed V_A.....180 km/h

Maximum flap extended speed V_{FE}.....135 km/h

minimum flight speed
in landing configuration V_{SO}.....55 km/h

Best rate of climb speed V_y.....120 km/h
Rate of climb at V_y.....4,2 m/s

9. Weights / centers of gravity / load factors

a) Operation
min. payload.....50 kg
maximum take-off mass.....600 kg

Center of gravity range
forward limit.....1559 mm or 24 % MAC
aft limit.....1715 mm or 35 % MAC

Safe positive load factor.....4 g
Safe negative load factor.....2 g

b) Weighing
Empty mass.....353 kg
Empty mass – C.G. position (mm).....1553-1649 lub 21-26,7 % MAC
Datum.....propeller flange
Aircraft attitude.....Wing underside root rib +4°

Note
To determine the C.G. position, see the manual.

IV Towing

Approved with towing clutch type.....
Maximum towed load [kg] .....
Braking point [daN].....
MTOM of the towing UL [kg].....

V. Operating instructions

1. operating manuals
Flight and Operations Manual

2. instructions for maintenance and inspection
In accordance with the aircraft type manual and an annual inspection requirement.
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VI. Instrumentation

VII. Equipment

VIII. Additions

Option larger tanks: 2 x 57 liters

IX. Restrictions

X. Remarks

Rudder neutral position 2° right in flight direction, rudder deflections starting from the neutral position.
Luggage compartment max. 15 kg.

Translation from the German original „*DULV-Kennblatt-Nr.: 978-21 1*”

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For compliance with the original

Janusz Grzywa

Kraków, dnia 14.02.2023