

**Prezes Urzędu Lotnictwa Cywilnego**  
*President of the Civil Aviation Authority*

**ŚWIADECTWO UZNANIA ZATWIERDZENIA TYPU**  
*Type Approval Recognition Certificate*

**NUMER:** UL.A.00 – 009/2023  
*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, zawieszono 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 3<sup>rd</sup>, 2002 (JL. 2022, item 1235, 1715, 1846, 2185 and 2642).*

Państwo projektu  
*State of Design*

**Italy**

Państwo produkcji  
*State of Manufacture*

**Italy**

Posiadacz zatwierdzenia typu  
*Type Approval Holder*

**I.C.P. srl**

S.P. 16 km 15, 150 Castelnuovo Don Bosco (Asti), Italien

Wytwórca  
*Manufacturer*

**I.C.P. srl**

S.P. 16 km 15, 150 Castelnuovo Don Bosco (Asti), Italien

Oznaczenie typu produktu  
*Product Type Designation*

**MXP-740 V Savannah / Savannah S**

Numer zatwierdzenia typu  
*Type Approval Number*

**61170.1**

Arkuszy danych do zatwierdzenia typu  
*Type Certificate Data Sheet*

**61170.1, issue 5**

Przyjęte wymagania techniczne  
*Type Certification Basis*

**LTF-UL of 30 January 2003**

Uwagi  
*Remarks*

Approved by Deutscher Aero Club e. V. on:

03.03.2011 – 61170.1, first edition

EZD ref. LTT-4.5460.4.2023

**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 Department*

(pismo zostało wydane w postaci elektronicznej  
i opatrzone kwalifikowanym podpisem elektronicznym)

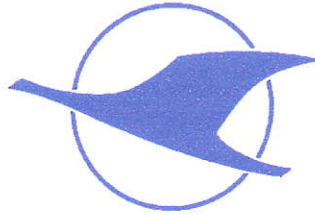
*(the letter was published in electronic form  
and signed with a qualified electronic signature)*

Data pierwszego wydania: **17.04.2023**

*Date of original issue:*

Data ostatniej zmiany: --

*Date of last revision:*



## **Ergänzung zur Musterzulassung**

*Supplement Type Certificate*

**Nr: 61170.1**

Die nach den Bestimmungen der Luftverkehrs-Zulassungs-Ordnung ergänzte Musterzulassung des Luftfahrtgeräts wird durch diese ERGÄNZUNG ZUR MUSTERZULASSUNG beurkundet. Sie erweitert die Angaben des Musterzulassungsscheins und des zugehörigen Gerätekenblatts und ist nur in Verbindung mit diesem gültig.

### **Anwendbarkeit:**

Gerätemuster/-Baureihen: MXP-740 V Savannah / **Savannah S**

Gerätekenblatt Nr.: 61170.1

Ausgabe: 1

### **Antragsteller:**

I.C.P. srl  
S.P. 16KM.15,150  
I-14022 Castelnuovo Don Bosco (AT)  
Italien

**Beschreibung der Ergänzung:** Ergänzende Musterzulassung vom 03.03.2011

Baureihe Savannah S

**Zulassungsgrundlage:** Lufttüchtigkeitsforderungen für aerodynamisch gesteuerte Ultraleichtflugzeuge (LTF-UL) vom 30. Januar 2003

**Deutscher Aero Club e.V.**  
**Luftsportgeräte-Büro**

Beauftragter des Bundesministeriums für Verkehr, Bau und Stadtentwicklung  
*Authorized Representative*



**Auflagen, Einschränkungen und Ergänzungen:**

Diese Ergänzung zur Musterzulassung kann in den in § 4 Abs.2 der Luftverkehrs-Zulassungs-  
Ordnung vorgesehenen Fällen widerrufen werden.

Datum der Ausstellung:  
*Date of issue:*

Unterschrift  
*Signature*

Braunschweig, den 03.03.2011

Deutscher Aero Club e.V.  
Luftsportgeräte-Büro UL  
H.-Blenk-Str. 28 Tel.: 0531-23540-60  
38108 Braunschweig



# DAeC Luftsportgeräte - Büro

Courtesy English Translation by I.C.P. Srl (14/02/2023)

## Type Data Sheet

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### I. General

Model ..... : MXP-740 V "Savannah"  
Series ..... : Savannah S  
Savannah XL  
Savannah S Taildragger

Manufacturer..... : I.C.P. srl  
SP 16  
I-14022 Castelnuovo Don Bosco (Asti), Italien

Model supervisor..... : Ewald Scheiber  
Bismarckstr.5  
74405 Gaildorf

Certification ..... : Airworthiness Requirements for Ultralight Aircraft (LTF-UL),  
Version 2003

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### II. Technical Data and Operating Limitations

#### 1. Construction

Construction..... : metal  
Wing arrangement..... : high-wing, braced  
Wing type ..... : without fixed slats  
Tail arrangemen .... : rear  
Tail shape ..... : cross tail  
Landing gear ..... : Tripod (nose wheel) / Taildragger (tail wheel)  
Engine arrangement ... : Traction type  
Seating ..... : 2, next to each other (side-by-side)

#### 2. Dimensions

Wingspan ..... : 9,0 m  
Wing Area ..... : 11,9 m<sup>2</sup>  
Wing Chord ..... : 1,320 m  
Length..... : 6,6 m

#### 3. Surfaces deflections

##### Aileron (Position from the wing)

Position at neutral setting ..... : according to flap position setting  
deflected upward ..... : 15° +/- 1° (50mm +/- 5mm)  
when deflected downward ..... : 15° +/- 1° (50mm +/- 5mm)

Rudder deflected on the left ..... : 25° +/- 1° (270mm +/- 5mm)  
on the right ..... : 25° +/- 1° (270mm +/- 5mm)

Elevator deflected upward ..... : 29° +/- 1° (220mm +/- 5mm)  
deflected downward ..... : 25° +/- 1° (170mm +/- 5mm)

Flaps settings ..... : 0 / 15 / 35 deg (Command  
mixed with Ailerons: Flaperon)



4. Design airspeeds

Never Exceed Airspeed ..... : 210 km/h  
 Horizontal airspeed at max. performance ..... : 180 km/h  
 Airspeed in strong turbulence..... : 170 km/h  
 Maneuvering airspeed ..... : 135 km/h  
 Maximum airspeed with flaps down ..... : 100 km/h  
 Stall airspeed ..... : 60 km/h

5. Masses

Maximum Take-Off Mass with Parachute installed .....: 472,5 kg  
 Empty Mass ..... : according to Weighing Report

6. Center of Gravity excursion

Reference plane (DATUM): Wing Leading Edge  
 MAC .....: 1,32 m  
 Attitude .....: Fuselage Tail Cone horizontal

With flying mass

Most forward position.: 330 mm behind DATUM  
 Most rearward position: 508 mm behind DATUM

With empty mass (Savannah XL):

Most forward position.: 306 mm behind DATUM  
 Most rearward position: 398 mm behind DATUM

With empty mass (Savannah S):

Most forward position.: 282 mm behind DATUM  
 Most rearward position: 414 mm behind DATUM

7. Approved engines and Propellers (Performances in Section 8)

<u>Engine</u>	<u>Propeller</u>
1.Manufacturer/Model: Rotax 912	1.IVO 3-Blade, var.pitch
2.Manufacturer/Model: Rotax 912S/ULS	1.IVO 3-Blade,var.pitch 2.DUC 3-Blade, fix.pitch

8. Performance of Engines and associated Propellers

8 - 1.a Engine

Manufacturer ..... : Rotax  
 Model ..... : 912 / UL / A / F  
 Type ..... : 4 Cylinder 4-Strokes, Boxer, 2 Carburetors  
 Cooling ..... : Liquid / Air

Max. Power (from. Manufacturer)..... : 59,6 KW  
 At crankshaft-RPM ..... : 5800 1/min  
 Max. Cont. Power (from. Manufacturer) : 58 KW  
 At crankshaft-RPM ..... : 5500 1/min  
 Mufflers - Quantity/Manufacturer .... 1 / Rotax  
 Silencers- Quantity/Manufacturer ... : 1 / Rotax  
 Intake Silencers-Quantity/Manufacturer : 1 / Rotax



8 - 1.b Propeller

Manufacturer..... : IVO  
Model ..... : IVO-Propeller  
Blades number/material : 3, Plastic  
Max. diameter ..... : 1,80 m  
Pitch ..... : 13,5 deg at R 0,5 m  
Propeller speed with  
full throttle on ground : 2100 1/min  
Adjustable pitch ... : yes / in flight  
(electric)

8 - 1.c Gearbox

Type ..... : Gear transmission  
Ratio ..... : 2,273 : 1

8 - 1.d Noise level : 57,9 dB(A) after LS-UL 96

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8a - 2. Engine

Manufacturer..... : Rotax  
Model ..... : 912 ULS / S / ULSFR  
Type ..... : 4 Cylinder 4-Strokes, Boxer, 2 Carburetors  
Cooling ..... : Liquid / Air

Max. Power (from. Manufacturer)..... : 73,5 KW  
At crankshaft-RPM ..... : 5800 1/min  
Max. Cont. Power (from. Manufacturer) : 69 KW  
At crankshaft-RPM ..... : 5500 1/min

8b - 2.1 Propeller

Manufacturer..... : IVO  
Model ..... : IVO-Ultralight  
Blades number/material : 3, Plastic  
Max. diameter ..... : 1,80 m  
Pitch ..... : 23-29 deg at R 0,5 m  
Propeller speed with  
full throttle on ground. : 2060 1/min  
Adjustable pitch .. . : yes / in flight  
(electric)

Mufflers - Quantity/Manufacturer .... : 1 / I.C.P.  
Silencers- Quantity/Manufacturer . ... : 1 / -  
Intake Silencers-Quantity/Manufacturer : 1 / I.C.P.

8c - 2.1 Gearbox

Type ..... : Gear transmission  
Ratio ..... : 2,43 : 1

8d - 2.1 Noise level : 58,7 dB(A) after LS-UL 96  
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8b - 2.2 Propeller

Manufacturer..... : DUCANE  
Model ..... : DUC Swirl 68" Standard 01-03-001 / Inconel 01-05-001  
Blades number/material : 3 , Plastic  
Max. Diameter ..... : 1,72 m  
Pitch ..... : 25,5 deg at R 0,65 m  
Propeller speed with  
full throttle on ground : 2100 1/min  
Adjustable pitch ... : yes / on ground  
  
Schalldämpfer - Anzahl/Hersteller .... : 1 / I.C.P.  
Nach-Schalldämpfer - Anzahl/Herst. ... : -  
Ansaugdämpfer - Anzahl/Hersteller .... : 1 / I.C.P.

8c - 2.2 Gearbox

Type ..... : Gear transmission  
Ratio ..... : 2,43 : 1

8d - 2.2 Noise level : 59,7 dB(A) after LVL 2004

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9. Fuel

Tank capacity ..... : 2 x 36 L (Wing tanks) and 6 L Collector tank (Fuselage),  
unusable fuel 3 l

10. Equipments

Rescue system: BRS (BRS-5-UL-4, BRS-6-1050 SP)  
Junkers Magnum 501 (Speed SP, High Speed SP, Light Speed SP)  
Junkers Magnum 601  
  
1 Analog. Anemometer , 1 analog. Altimeter, 1 Magnetic Compass, 1 RPM indicator,  
1 refrigerator liquid temperature indicator, Fuel gauge  
  
Main Wheels : 6.00-6

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**III. Approved equipments variants (Details in Appendix)**

- 1) Doucle stick control
- 2) Opening for Rescue System: Forma „A“/Forma „B“ (each with protective frame)
- 3) Wheel Fairings
- 4) Main Wheels 4.00-6

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**IV. Operating Instructions - Supplements - Limitations**

Pilot's Operating Handbook: POH Savannah XL/S Rev. 01 June 2009  
Pilot's Operating Handbook: POH Savannah XL/S-601 Rev. 01, Jan.2019  
Zusatz zum Flughandbuch, Savannah S Taildragger, Rev. 00, 20.03.2013  
Motorhandbuch

Rescue System Operating Manual  
Rescue System Installation Instructions BRS: PIM-Savannah rev.A, 12.Nov. 2018  
Rescue System Technical Specification 501: ICP S0223  
Rescue System Technical Specification 601: ICP S0258

German Version Specification: ICP S0224  
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**V. Appendix**

1. Model Savannah XL: Wider fuselage  
Model Savannah S : Wider fuselage with round corners
  
2. Aircraft-Towing:  
Approved for aircraft towing due to the additional requirements for the towing of gliders by ultralight aircraft to the airworthiness requirements for three-axle controlled ultralight aircraft (NfL II 72/99) in the version:
  - Rotax 912 S/ULS
    1. DUC Swirl 3-Blade

With the following conditions:

- Maximum design breaking point  $Q_{nom} = 300$  kg
- Maximum Takeoff Mass of the towed aircraft = 475 kg
- Maximum allowed towing speed = 150 km/h
- Minimum allowed towing speed with Flaps in position 1 + 2:  $V_{min} = 90$  km/h
- Tow release TOST E 85 at rear with release device
- Rearview mirror / Camera system
- Flight and Operating Manual: as of October 2018

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**VI. Index of Amendments and extensions to the Type Certificate**

Amendment Nr.1, 03.03.2011: Model Savannah S  
Amendment Nr.2, 21.09.2011: Model Savannah XL, Propeller DUC  
Amendment Nr.3, 22.03.2012: Added rudder deflections  
Amendment Nr.4, 19.12.2013: Omission of RS  
Amendment Nr.5, 01.02.2019: Taildragger landing gear, A/C-Towing, RS 601

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End of Type Data Sheet  
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