Sky Arrow 600 Sport



TYPE-CERTIFICATE

DATA SHEET

EASA.A.670

for

SKY ARROW 600 Sport

Type Certificate Holder: Magnaghi Aeronautica S.p.A.

> Via Galileo Ferraris, 76 80142 Napoli ITALIA

For models: Sky Arrow 600 Sport



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2019. All rights reserved. ISO9001 Certified.Page 1 of 11 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Intentionally left blank



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2019. All rights reserved. ISO9001 Certified.Page 2 of 11 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

SECTION A: SKY ARROW 600 SPORT	
A.I. General	
A.II. EASA Certification Basis	
D.III. Technical Characteristics and Operational Limitations	
A.IV. Operating and Service Instructions	9
A.V. Notes	10
SECTION ADMINISTRATIVE	11
I. Acronyms & Abbreviations	11
II. Type Certificate Holder Record	11
III. Change Record	



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2019. All rights reserved. ISO9001 Certified.Page 3 of 11 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

SECTION A: SKY ARROW 600 SPORT

A.I.	<u>(</u>	General	
	Da	ta Sheet No : EASA.A.670	Issue 01, 02 August 2019
	1.	1.1 Type: 1.2 Model:	Sky Arrow 600 Sport Sky Arrow 600 Sport
	2.	Airworthiness Category:	Normal
	3.	Manufacturer:	Magnaghi Aeronautica S.p.A. Via Galileo Ferraris, 76 80142 Napoli ITALIA
	4.	EASA Type Certification Application Date:	08 March 2013
	5.	State of Design Authority:	not applicable
	6.	State of Design Authority Type Certification Date:	not applicable
	7.	EASA Type certification Date:	02 August 2019



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2019. All rights reserved. ISO9001 Certified.Page 4 of 11 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

A.II. EASA Certification Basis

1.	Reference Date for determining the applicable requirements:	02 September 2016
2.	Airworthiness Requirements:	CS-LSA Amendment 1, dated 29 July 2013
3.	Special Conditions:	None
4.	Exemptions	None
5.	(Reserved) Deviations	None
6.	Equivalent Safety Findings:	None
7.	Environmental Protection	ICAO Annex16, Volume 1 (For further details see TCDSN EASA.A.670)

D.III. <u>Technical Characteristics and Operational Limitations</u>

1. Type Design Definition

See Doc n° NT-17-2019 Sky Arrow "Sky Arrow EASA CS-LSA Type design Report" latest issue and NT-18-2019 Sky Arrow "Sky Arrow EASA CS-LSA Design Data Report" latest issue.
Description: The Sky Arrow is a tandem seat aircraft, almost entirely made of carbon fiber in epoxy resin. It is characterized by: single engine, fixed pitch pushing propeller, high wing with strut and T-tail. The Sky Arrow 600 Sport variants have a fixed tricycle landing gear.



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2019. All rights reserved. ISO9001 Certified.Page 5 of 11 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Date: 02 August 2019

			The prescribed basic equipment required by applicable airworthiness regulations must be installed on the aircraft. For Equipment List: AFM Section 6				
4.	Dir	nensions:		Span Length Height Wing Ar	ea	9.68 m 7.60 m 2.56 m 13.55 m ²	(31.76 ft) (24.93 ft) (8.40 ft) (145.85 sqft)
5.	Eng	gine:		Ū			
				Certific Type C		sis: FAR 33 A e: TCDS EASA Max tak 73.5 KW Max cor	
	6.	Load factor					
			Flap Up At	t V _A	At V_{NE}	Flap in T/o and Landi	o ng Position
		Max. Positive Max. Negative	4.0 4. -2.0 -2	0 .0	4.0 -2.0	2.0 0.0	
	7.	Propeller:					d, fixed pitch:
	7.						
	8.	No. 1 HOFF Fluids: 8.1 Fuel: 8.2 Oil: 8.3 Coolant:	MANN p/n HO17Gł	Type Ce Diamet Max 17 Min 17 Blade A MOGAS see app Conve	ertificate cer: 74.5 cm (6 73.5 cm (6 Angle @ 7 6 min RON blicable A ntional co	N° L-32 110, 68.70 in) 58.31 in) 75% R 23° N 95 (see no ircraft Flight oolant base	/1 issued by LBA te 4) t Manual d on Ethylene
				gl	ycol with	50 % water	r content



9. Fluid Capacities

9.1	Fuel:	Total: Usable:	112.0 liters 92 liters
9.2	Oil:	Total: Minimum:	3.0 liters
9.3	Coolant:	Total: Minimum:	2.3 liters
10. Air Spee	ds:		
Neve	r exceed speed V _{NE} :		
Sky A	rrow 600 Sport	129 KIAS	
Maxin	num structural cruicing speed V		
	num structural cruising speed V _{NO} rrow 600 Sport	103 KIAS	
,			
-	n maneuvering Speed V _A :		
Sky Ai	rrow 600 Sport	89 KIAS	
Flan Fr	xtended Speed V _{FE} :		
•	Arrow 600 Sport	67 KIAS	
-			
	num Landing Gear Speed V _{LE} :	N 1/A	
SKY Ar	row 600 Sport	N/A	
Maxim	um Landing Gear Operation Speed V _{LO} :		
Sky Ar	row 600 Sport	N/A	
	n Operating Altitude: 3500 ft		
12. Approve	d Operations Capability:	Day-VFR on	llv
12. Approved	a operations capability.	•	expected or actual icing conditions



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2019. All rights reserved. ISO9001 Certified.Page 7 of 11 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

Date: 02 August 2019

13. Maximum Masses:

Take-off: 599 kg (1320 lb) Landing: 599 kg (1320 lb)

14. Centre of Gravity Range:

Forward limit: 24.5% MAC 2.82 m @599kg Rear limit: 35.0% MAC 2.97 m @599kg 38.0% MAC 3.012 m @550kg Linear variation for intermediate Weights

2.48 m (97.6 in) before MAC Leading Edge

15. Datum:

16. Control Surface Deflections

		Aileron (Left/Right) Elevator Rudder Elevator Trim	Up: 20°±2° Down: 14°±2° Up: 22°±2° Down: 14°±2° Left: 23°±2° Down: 23°±2 Up: 22°±2° Down: 9°±2°
17.	Levelling Means:	Floor Levelled,	see Section 6 of AFM
18.	Minimum Flight Crew:	1 (Pilot)	
19.	Maximum Passenger Seating Capacity:	1	
20.	Baggage / Cargo Compartments	behind Datum	^r Seat 15 kg (33 lb) max @ 3.04 m (119.6
	21. Wheels and Tyres Nose Wheel Tyre Size Main Wheel Tyres Size	3.50-4" 5.00-5	6 Ply

22. (Reserved)



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2019. All rights reserved. ISO9001 Certified.Page 8 of 11 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

A.IV. Operating and Service Instructions

1. Airplane Flight Manual (AFM)

Sky Arrow model	Document n°	Affected s/n
Sky Arrow 600 Sport	AFM-01-2019-SKY ARROW	LSA030 and following

2. Airplane Maintenance Manual (AMM)

(incl. Airworthiness Limitations)

Sky Arrow model	Document n°	Affected s/n
Sky Arrow 600 Sport	AMM-01-2019-SKY ARROW	LSA030 and following

Engine Manuals:

Maintenance Manual Operators Manual Propeller Manual: Maintenance Manual for Rotax Engine 912 series Operators Manual for Rotax 912 series Operation and Maintenance Manual No. E 0110.74

- 3. Structural Repair Manual
- 4. Weight and Balance Manual
- 5. Illustrated Parts Catalogue

Included in the AMM Included in the AFM and AMM Document JV-14.41



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2019. All rights reserved. ISO9001 Certified.Page 9 of 11 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

An agency of the European Union

A.V. <u>Notes</u>

- 1. When applying for the airworthiness certificate an updated Weight and Balance report must be issued, listing the equipment part of the empty weight
- 2. All placards specified in the applicable Aircraft Flight Manual must be displayed in the aircraft at the appropriate location
- 3. All external surfaces exposed to sunlight must be white, with the exception of the tail numbers and the factory livery
- 4. AVGAS 100LL can be used as alternate fuel in accordance to Chapter 2 of the applicable Aircraft Flight Manual.



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2019. All rights reserved. ISO9001 Certified.Page 10 of 11 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

SECTION ADMINISTRATIVE

I. Acronyms & Abbreviations

N/A

II. Type Certificate Holder Record

Magnaghi Aeronautica S.p.A. Via Galileo Ferraris, 76 80142 Napoli ITALIA

III. Change Record

Issue	Date	Changes	TC Issue No. & Date
Issue 01	lssue 01,	Initial Issue	issue 01,
	02 August 2019		02 August 2019



TE.CERT.00048-002 © European Union Aviation Safety Agency, 2019. All rights reserved. ISO9001 Certified.Page 11 of 11 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

An agency of the European Union