Civil Aviation Authority United Kingdom



TYPE-CERTIFICATE DATA SHEET

UK.TC.E.00146

for

Arriel 1 Series Engines

Safran Helicopter Engines

64510 Bordes

France

Model(s): Arriel 1A Arriel 1D

Arriel 1A1 Arriel 1D1
Arriel 1A2 Arriel 1E2
Arriel 1B Arriel 1K
Arriel 1C Arriel 1K1
Arriel 1C1 Arriel 1S
Arriel 1C2 Arriel 1S1

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Section 1 General (All Models)

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 UKCAA **from** 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 EASA TCDS EASA.E.073 at Issue 04 dated 01 August 2016 and are therefore accepted by the UK under Article 15 of Annex 30 of the UK-EU Trade and Cooperation Agreement

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Section 2 Arriel 1 Series Engines

I. General

1. Type / Variant / Model

Arriel 1 / Arriel 1A1, 1A2, 1C, 1C1, 1C2, 1S, 1S1, 1K, 1K1, 1E2 for twin-engines helicopters.

Arriel 1B, 1D, 1D1 for single-engine helicopters.

2. Type Certificate Holder

Safran Helicopter Engines 64510 Bordes FRANCE

DOA-ref: EASA.21J.070

Until July 18 2016 Turbomeca

After July 18 2016 Safran Helicopter Engines

3. Manufacturer

TURBOMECA USA (formerly Turbomeca Engine Corporation), Grand Prairie, Texas, USA Until July 18 2016 Turbomeca

After July 18 2016 Safran Helicopter Engines

4. Date of Application and Approval at EASA (Certifying Authority)

Model	Application Date	EASA Certification Date	Type certificate cancelled
Arriel 1			19 November 1999
Arriel 1A			04 April 2014
Arriel 1A1	20 March 1979	26 March 1979	
Arriel 1A2	01 September 1978	07 December 1979	
Arriel 1B	05 June 1974	01 June 1977	
Arriel 1B2			19 November 1999
Arriel 1C	01 September 1978	23 December 1980	
Arriel 1C1	18 June 1981	27 January 1982	
Arriel 1C2	21 October 1988	24 February 1989	
Arriel 1D	07 December 1984	04 October 1985	
Arriel 1D1	10 May 1988	19 July 1988	
Arriel 1E			19 November 1999
Arriel 1E2	02 April 1993	08 October 1993	
Arriel 1K	24 October 1984	04 October 1985	
Arriel 1K1	09 February 1990	29 August 1990	
Arriel 1S	09 September 1985	06 May 1987	
Arriel 1S1	21 October 1989	19 December 1990	

Note: EASA type certification for all these models is granted in accordance with Article 2a paragraph 1(a) of EU Commission Regulation EC 375/2007 amending EU Commission Regulation 1702/2003 based on the DGAC France certification of these products (French Type Certificate N° M5).

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5. Date of Application and Approval at CAA (Validating Authority)

Model	Date of Application	Date of Approval
Arriel 1A1	25 July 2025	9 December 2025
Arriel 1A2	25 July 2025	9 December 2025
Arriel 1B	25 July 2025	9 December 2025
Arriel 1C	25 July 2025	9 December 2025
Arriel 1C1	25 July 2025	9 December 2025
Arriel 1C2	25 July 2025	9 December 2025
Arriel 1D	25 July 2025	9 December 2025
Arriel 1D1	25 July 2025	9 December 2025
Arriel 1E2	25 July 2025	9 December 2025
Arriel 1K	25 July 2025	9 December 2025
Arriel 1K1	25 July 2025	9 December 2025
Arriel 1S	25 July 2025	9 December 2025
Arriel 1S1	25 July 2025	9 December 2025

II. Certification Basis

1. Reference Date for determining the applicable airworthiness requirements

05 June 1974

2. State of Design Airworthiness Authority Type Certificate Data Sheet Number

EASA.E.073

3. State of Design Airworthiness Authority Certification Basis

Refer to TCDS EASA.E.073.

4. UK CAA Certification Basis

4.1 Airworthiness Standards

JAR-E issue 1 and amendments applicable on June 5th 1974, including ratings as per FAR 33 for helicopter engines.

4.2 Special Conditions

Special requirement applicable to the single-engine helicopters versions to take the free wheel into account. See letter from SGAC, former French Airworthiness Authority, reference 7525/DTA/SDT/MC dated 12/12/1974.

4.3 Equivalent Safety Findings (ESF)

None

4.4 Deviations

None

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III. Technical Characteristics

1. Type Design Definition

Model	Part Number
Arriel 1A1	P/N 0 292 00 505 0
Arriel 1A2	P/N 0 292 00 507 0
Arriel 1B	P/N 0 292 00 506 0
Arriel 1C	P/N 0 292 00 514 0
Arriel 1C1	P/N 0 292 00 515 0
Arriel 1C2	P/N 0 292 00 524 0
Arriel 1D	P/N 0 292 00 518 0
Arriel 1D1	P/N 0 292 00 522 0
Arriel 1F2	P/N 0 292 00 532 0
AITIELTEZ	P/N 0 292 00 546 0*
Arriel 1K	P/N 0 292 00 517 0
Arriel 1K1	P/N 0 292 00 527 0
Arriel 1S	P/N 0 292 00 519 0
Arriel 1S1	P/N 0 292 00 525 0

^{*} when modified by TU 324

2. Description

The Arriel 1 engine is a turboshaft engine consisting of an axial air intake, an axial compressor and a centrifugal compressor driven by a two-stage turbine, a combustion chamber, and a single stage power turbine (free turbine) driving a reduction gearbox located at the rear. An accessory drive gearbox, driven by the gas generator, is located at the front. Mounts and starter-generator are not part of the engine type definition.

3. Equipment

Engine equipment is specified by the applicable Type Design Definition

4. Dimensions

Model	Length (m)	Height (m)	Width (m)
Arriel 1A1	1.12	0.6	0.41
Arriel 1A2	1.12	0.61	0.41
Arriel 1B	1.21	0.6	0.44
Arriel 1C	1.17	0.61	0.41
Arriel 1C1/1C2	1.17	0.61	0.47
Arriel 1D	1.26	0.61	0.49
Arriel 1D1	1.2	0.61	0.47
Arriel 1E2	1.19	0.7	0.49
Arriel 1K/1K1	1.17	0.61	0.5
Arriel 1S/1S1	1.54	0.79	0.49

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5. Dry Weight

Model	Weight Dry (Kg)
Arriel 1A1	111
Arriel 1A2	116.5
Arriel 1B	114.5
Arriel 1C	116.5
Arriel 1C1	118.6
Arriel 1C2	119
Arriel 1D	122.5
Arriel 1D1	122
Arriel 1E2	125
Arriel 1K	121
Arriel 1K1	123
Arriel 1S	126.75
Arriel 1S1	130

6. Ratings

Ratings kW	Arriel 1A1	Arriel 1A2	Arriel 1B
2-1/2 minute OEI	498	500	NA
Continuous OEI **	480	490	NA
Takeoff	470	470	478
Maximum Continuous	432	432	440

Ratings kW	Arriel 1C	Arriel 1C1	Arriel 1C2	Arriel 1D	Arriel 1D1
2-1/2 minute OEI	522	538*	569*	NA	NA
Continuous OEI **	512	526	550	NA	NA
Takeoff	492	526	550	510	531*
Maximum Continuous	437	437	471	450	466

Ratings kW	Arriel 1E2	Arriel 1K	Arriel 1K1	Arriel 1S	Arriel 1S1
2-1/2 minute OEI	528*	476*	494*	560*	598
Continuous OEI **	528*	476*	494*	544	588
Takeoff	528*	476*	494*	523	541
Maximum Continuous	516	437	471	523	541

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- * The mechanical power is restricted to the values indicated above, taking into account the fuel flow limit corresponding to the engine installation, although the engine is capable of greater values which have also been validated.
- ** The intermediate contingency rating, with unlimited display time, according to BCAR-C (JAR-E) has also been validated.

Note 1: Engine ratings correspond to minimum values defined under the following conditions:

- Static, sea level standard conditions (15°C, 1013 hPa)
- engines equipped with calibrated test bed air intake N°6.202.81.719.0
- Use of following exhaust pipe:

- Arriel 1A1/1A2/1C: 0.292.80.869.0 - Arriel 1B/1D: 0.292.80.870.0 - Arriel 1C1/1C2/1D1/1E2/1K/1K1/1S/1S1: 0.292.80.871.0

- no air bleed,
- no power drawn by any accessories other than those required for engine operation.
- fuel Low Heat Value: 43136 kJ/kg
- output shaft rotation speed: 5976 rpm, Arriel 1A1, 1A2, 1B, 1C, 1C1, 1C2, 1D, 1D1, 1K, 1K1 6000 rpm, Arriel 1E2 6057 rpm, Arriel 1S 6409 rpm, Arriel 1S1
- Note 2: Ratings declared for Arriel 1A1/1A2/1B/1C/1C1/1D/1K correspond to the minimum power ratings for new engines. For overhauled engines in operation, a performance decrement function to the operation time since overhaul have to be done, up to 2 % for 3000 operating hours.

Ratings declared for Arriel 1C2/1D1/1K1/1S/1S1/1E2 correspond to the minimum power ratings for aged engines.

Note 3: Detailed performance curves are provided in the relevant Installation / Operating Manuals.

7. Control System

Arriel 1 engines are equipped with Hydromechanical Fuel Control Units, including a proportional free turbine speed control and a proportional integral gas generator speed control.

Refer to the Installation / Operating Manuals for further information.

8. Fluids (Fuel, Oil, Additives)

Refer to applicable Installation / Operating Manuals.

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9. Aircraft Accessory Drives

Designation	Rotation direction facing pad	irection		Maximum torque at overload	Maximum static overhung moment
	iaomg paa	(rpm)	(kW)	(daN.m)	(daN.m)
Arriel 1A1, 1A2, 1B not modified TU 77	ccw	NTL x 0.306122 12182	13.5	3.99	1.5
Arriel 1A1, 1A2, 1B modified TU 77 Arriel 1C, 1C1, 1C2, 1K, 1K1, 1D, 1D1, 1E2,	CCW	NTL x 0.29293 12182	13.5	3.99	1.5
Arriel 1S, 1S1	CCW	NTL x 0.29293 12297	5	1	1.5

Notes:

- CCW: counter clockwise
- The rotation direction of the power drives for the accessories is indicated considering the power drive seen from the outside.

10. Maximum Permissible Air Bleed Extraction

P2 air bleed for helicopter use, maximum flow rate at standard sea level conditions: 100 g/s at Take-off rating. For further details, see Installation / Operating Manuals

IV. Operating Limitations

1. Temperature Limits

1.1 Turbine Gas Temperature

	Arriel Models						
	1A1/1A2	1B	1C	1C1	1C2	1D	1D1
Take off	810	810	835	845	845	845	845
Maximum Continuous	775	775	785	775	775	795	795
30 minute OEI rating	810	NA	835	845	845	NA	NA
2 - 1/2 minute OEI	840	NA	860	865	885	NA	NA
Maximum Overtemperature at starting	840	840	860	865	865	865	865
Transient (<20s)					920 **		870 *

	Arriel Models					
	1E2	1K	1K1	18	1S1	
Take off	845	845	845	845	845	
Maximum Continuous	845	775	775	845	845	
30 minute OEI rating	845	845	845	845	868	
2 - 1/2 minute OEI	885	865	885	885	885	
Maximum Overtemperature at starting	865	865	865	865	865	
Transient (<20s)	920 **		920 **	920 **	920 **	

^{*} Allowed on helicopters equipped with digital avionics VEMD (Vehicule and Engine Monitoring Display)

1.2 Fuel Temperature

Refer to relevant Installation / Operating Manuals

1.3 Oil Temperature (°C)

- Minimum for starting: between -50°C and -40°C, according to oil specification. Refer to Installation / Operating Manuals.
- Minimum for power application: -10°C with 3 cst oils
 0°C with 5 cst oil.
- Maximum operating temperature:
 - Arriel 1A1/1A2/1B: 110°C
 - Arriel 1C/1C1/1C2/1D/1D1/1E2/1K/1K1/1S/1S1: 115°C

2. Pressure Limits

2.1 Fuel Pressure

See installation / Operating Manuals

2.2 Oil Pressure (hPa)

i i ressure (iii a)		Arriel Models		
		, and models		
	1A1/1A2/1B	1C/1C1/1C2/1E2/1K/1K1/1S/1S1	1D/1D1	
Minimal 70% < N1 <85% N1 ≥ 85%	1900 2800	1300 1800	1300 1800	
Maximal	> 9000	> 5000	> 5000	

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^{**} Only when reaching the 2 ½ min. OEI rating (maximum contingency power), see Installation / Operating Manuals

3. Maximum / Minimum Permissible Rotor Speeds

3.1 Gas Generator Speeds (N1) (%)

Arriel Models	2-1/2 minute OEI rating	30 minute OEI rating	Takeoff rating	Maximum continuous rating	Transient (5 second limit)	Transient (20 second limit)
1A1	102.2	100.9	100.4*	98*	105.5	NA
1A2	102.2	101.4	100.4	98	105.5	NA
1B	NA	NA	100.4*	98*	105.5	NA
1C	102.7	101*	100	97.5	105.5	NA
1C1	102.7	100.8	100.8	97	105.5	NA
1C2	103.4*	102*	102*	98.2*	NA	107.5
1D	NA	NA	100.8	98	105.5	NA
1D1	NA	NA	101.9*	98	107.5	103.1 **
1E2	103.3*	102*	102*	100.3*	NA	107.5
1K	102.7	100.6	100.6	97	105.5	NA
1K1	103.4*	102*	102*	98.2*	NA	105.5
1S	102.7*	101*	100	100	NA	105.35
1S1	102.7*	102.2*	100	100	NA	105.35

^{*} With NG de-rating law as function of outside temperature (and altitude for: 1S, 1S1, 1D1, 1C2, 1K1, 1E2)

With 100%= 51800 rpm for all models except 1S/1S1

With 100% = 52110 rpm for Arriel 1S and 1S1

Notes:

- For the NG limit variation as function of ambient temperature and altitude if applicable, confer relevant Installation / Operating Manuals
- Minimum speed: 67% for all models except for the Arriel 1E2 (63%).

3.2 Power Turbine Speed (N2) (%)

	Arriel Models				
	1A1/1A2/1B	1C/1C1/1C2/ 1D/1D1/ 1K/1K1	1E2	18	151
Maximum Stabilised	113.5	108.5	108	108	102.07
Maximum transient 5 sec.	120.5	120.5	120	118.9	112.34
Minimum transient 5 sec.	86	86	85.6	84.8	80.2

Notes: 100% means:

- 39635 rpm for free turbine shafts of Arriel 1A1/1A2/1B non -modified TU77
- 41420 rpm for free turbine shafts of Arriel 1A1/1A2/1B modified TU77 and Arriel 1C/1C1/1C2/1D/1D1/1K/1K1

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^{**} Allowed on helicopters equipped with digital avionics VEMD (Vehicule and Engine Monitoring Display)

- 41981 rpm for free turbine shafts of Arriel 1S
- 44421 rpm for free turbine shafts of Arriel 1S1
- 41586 rpm for free turbine shafts of Arriel 1E2

4. Torque Limits (m.daN)

		Arriel Models			
	1A1/1A2	1A1/1A2 1C/1C1/1E2/1K/1K1 1C2 1S			
Max at OEI 2-1/2 min	83	87.7	87.5	87.9	113
20 seconds	87.7	98.6	105	118.4	132.2

	Arriel Models		
	1B 1D / 1D1		
Max	83	83	
20 seconds	87.7	91.5	

5. Installation Assumptions

Refer to Installation / Operating Manuals for details.

6. Dispatch Limitations

All engine systems and equipment must be functional prior to aircraft take-off. Any engine system or equipment failure which would occur in flight shall be replaced or repaired prior to commencement of next flight

V. Operational and Service Instructions

The Operating and Service Instructions listed below are approved by the European Union Aviation Safety Agency under EASA Type Certificate EASA.E.073 in accordance with Commission Regulation (EU) 748/2012 as amended.

These instructions and any future revisions are either accepted under Article 13 of Annex 30 of the UK-EU Trade and Cooperation Agreement or subject to approval by Validation under Article 10 of Annex 30 of the UK-EU Trade and Cooperation Agreement, for use by UK operators.

The Type Certificate Holder should be contacted to verify the applicability of any Operational and Service Instructions within the UK.

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Note: For all tables in this section, when 2 references separated by "/" are provided, the first one refers to the document in French language and the second one to the document in English language. In case of conflict of translation the French version shall take precedence.

	Arriel Models		
	1A1	1A2	1B
Installation Drawing and Manual	292 00930 / 292 00931		
Operation Manual	292 00 932		
Performance Booklet	Included in the Installation Manual		
Maintenance Manual	X 292 B3 452 1 / X 292 B3 452 2	X 292 A9 452 1 / X 292 A9 452 2	X 292 65 452 1 / X 292 65 452 2
Repair Manual	X 292 87 500 1 / X 292 87 500 2		
Service Letters and Service Bulletins	refer to SB and SL directory		

	Arriel Models				
	1C	1C1	1C2	1D	1D1
Installation Drawing and Manual		X 292 B0 002 1 / X 292 B0 002 2			
Operation Manual		Included in the installation Manual chapter 5			
Performance Booklet		X 292 B0 001 9			
Maintenance Manual	X 292 B0 452 1 / X 292 B0 452 2	1/X 292 B0			
Repair Manual	X 292 87 500 1 / X 292 87 500 2				
Service Letters and Service Bulletins	refer to SB and SL directory				

	Arriel Models	
	1K	1K1
Installation Drawing and Manual	X 292 D8 001 1 / X 292 D8 001 2	
Operation Manual	Included in the Installation Manua chapter 5	
Performance Booklet	X 292 D8 002 1 / X 292 D8 001 9	
Maintenance Manual	X 292 D8 452 1 / X 292 H3 452 1 X 292 D8 452 2 X 292 H3 452 2	
Repair Manual	X 292 87 500 1 / X 292 87 500 2	
Service Letters and Service Bulletins	refer to SB and SL directory	

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	Arriel Models		
	18	1S1	
Installation Drawing and Manual	X 292 F9 001 1 / X 292 F9 001 2		
Operation Manual	Included in the Installation Manual chapter 5		
Performance Booklet	X 292 F9 900 9		
Maintenance Manual		X292 H4 452 1 / X 292 H4 452 2	
Repair Manual	X 292 87 500 1 / X 292 87 500 2		
Service Letters and Service Bulletins	refer to SB and SL directory		

	Arriel Models
	1E2
Installation Drawing and Manual	X 292 G9 001 1 / X 292 G9 001 2
Operation Manual	Included in the Installation Manual chapter 5
Performance Booklet	X 292 G9 900 9
Maintenance Manual	X 292 M3 452 1 / X 292 M3 452 2
Repair Manual	X 292 87 500 1 / X 292 87 500 2
Service Letters and Service Bulletins	refer to SB and SL directory

VI. Notes

1. Ingestion of Foreign Matter

The engine capability against ingestion of foreign matter has not been fully assessed (C4-4 18 and 19, C 4-6 19 and 20). The protection of the engine against strike / ingestion of foreign matter other than rain is to be ensured by the powerplant installation on the aircraft.

Anti icing protection: the operating characteristics in icing conditions shall be evaluated before approval is given for the installation of the power plant on the helicopter concerned, refer to the relevant installation manual.

2. Vibrations

Measurements made by probe located on gas generator rear bearing

3. Conversion from non-civil use

This note is applicable to the following models:

Case 1: Arriel 1A1, 1A2, 1B, 1C, 1C1, 1C2, 1D, 1D1, 1E2, 1K, 1K1, 1S, 1S1 engines originally assembled by Turbomeca and having previously been used by an operator engaged in military, customs, police or similar services, and not under the control of a civil Authority.

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- Case 2: The Arriel 1M and Arriel 1MN are military models of the Arriel 1C1, known to be installed on, but not limited to, a military helicopter. Arriel 1C1 engines can be created by converting Arriel 1M or Arriel 1MN engines. TCDS No.: E.073 Safran Helicopter Engines Issue: 05 Arriel 1 series engines Date: 20 February 2025
- Case 3: The Arriel 1M1 and Arriel 1MN1 are military models of the Arriel 1C2, known to be installed on, but not limited to, a military helicopter. Arriel 1C2 engines can be created by converting Arriel 1M1 or Arriel 1MN1 engines.

The compliance of such engines with the European rules enabling issuance of an aircraft standard certificate of airworthiness must be checked. Their configuration, including design changes and repairs, does not necessarily conform to the type definition approved by EASA, and it is possible that in operation they have exceeded the limits approved by EASA. Before a standard certificate of airworthiness is issued to an aircraft in which such engines are installed, an EASA Form 1 must be issued for these engines. This requires incorporation of the following SAFRAN HELICOPTER ENGINES Mandatory Service Bulletins:

- Case 1: A292 72 0806 Update 1 (or any subsequent approved issue).
- Case 2: A292 72 0813 Original Issue (or any subsequent approved issue).
- Case 3: A292 72 0814 Original Issue (or any subsequent approved issue).

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Section 3 Administration

I. Acronyms and Abbreviations

Acronym / Abbreviation	Definition
BCAR	British Civil Aviation Regulation
CAA	Civil Aviation Authority
CCW	Counter Clock Wise
DOA	Design Organisation Approval
daN.m	decaNewton Meter
EU	European Union
ESF	Equivalent Safety Finding
EASA	European Aviation Safety Agendy
FAR	Federal Aviation Regulation
g/s	Grams per second
hPa	HectoPascal
JAR	Joint Airworthiness Regulation
Kg	Kilogram
kJ	Kilojoule
kW	Kilowatt
оС	Degrees Centigrade
OEI	One Engine Inoperative
rpm	Revolutions per Minute
SB	Service Bulletin
TC	Type Certificate
TCDS	Type Certificate Data Sheet
TCH	Type Certificate Holder
UK	United Kingdom
USA	United States of America
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II. Type Certificate Holder Record

TCH Record	Period
Turbomeca	Until July 2016
64510 Bordes	
France	
Safran Helicopter Engines	From 18 July 2016
64510 Bordes	
France	

III. Amendment Record

TCDS	TCDS Issue	Changes	TC Issue and
Issue No.	Date		Date
1	09 Dec 2025	Initial Issue – Created in response to application for administrative validation, ref: UK.ADMIN.00170. Ref: EASA Major change M126685	Issue 1 09 Dec 2025

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