

Summary Document

H145 S/N 20251



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REMARKS

Aircraft remarks

- Exterior paint scheme and interior design custom design by ©AVOVENTES.FR

Supplemental Type Certificate (STC)

- STC 1, Manufacturer; Mecaer Interior, VIP STC
- STC 2, Manufacturer; Dart Flotation STC (installed as BFR parts)
- STC 10062288 // FAA STC SR09298RC-D; Lead Acid Battery

Aircraft Documentation

- Some aircraft documentation is being in maintenance centre:
HBG France
Aérodrome d'Annemasse rue Germain Sommeiller,
74100 Annemasse

AIRCRAFT INFORMATION			
General			
Registration	—	Aircraft Category	Turbine Helicopter
Serial Number	20251	Aircraft Type	H145
Status			
Total Flight Time	298 Hrs 47 mn	Total Landings	886
Manufacture			
Maker	Airbus Helicopters Deutschland GmbH		
Type Certificate	No. EASA.R.010 / Date: April 11th, 21th Issue: 18		
Place:	Industriestrasse 4, D-86609 Donauwörth, Germany		
Date	12/02/2019	Authority	LBA
Operation			
CofA	—	Operator	—
		Classification	Private

ENGINE INFORMATION

Engine Left S/N 60522

General

Engine Type	ARRIEL 2E (P/N 0292000010)			Position	Left
Serial Number	60522	On Aircraft	20251	Currently Installed	Installed

Status

Total Run Hours	298 Hrs 47 mn		Cycles Engine	0	
Cycles N1	413	Cycles N2	212	Cycles N3	0,4

Manufacture

Maker	SAFRAN HE	Type Certificate	EASA TC/TCDS n°:EASA.E.001		
Authority	DGAC	Prod. Approval	FR.21G.0036	Date	26/09/2018

Engine Right S/N 60523

General

Engine Type	ARRIEL 2E (P/N 0292000010)			Position	Right
Serial Number	60523	On Aircraft	20251	Currently Installed	Installed

Status

Total Run Hours	298 Hrs 47 mn			Cycles Engine	0
Cycles N1	425	Cycles N2	211	Cycles N3	0,4

Manufacture

Maker	SAFRAN HE	Type Certificate	EASA TC/TCDS n°:EASA.E.001		
Authority	DGAC	Prod. Approval	FR.21G.0036	Date	26/09/2018

STANDARD HELICOPTER DEFINITION

Description

Parts from the standard aircraft definition might be overruled by the specific aircraft definition mentioned below in this document.

General

- Energy absorbing fuselage
- Tail boom with fixed horizontal stabilizer and vertical fin with faired-in Fenestron®
- Upper deck with fittings for main gearbox, engines, hydraulic and cooling system
- Cowlings for main transmission and engines
- Skid-type landing gear with skid protectors, capable of taking ground-handling wheels
- Long boarding steps, LH and RH
- Cold weather kit
- Built-in maintenance steps and grips
- Exterior painting (single colour)

Cockpit, Cabin and Cargo Compartment

- One-level cabin and cargo compartment floor with integrated rails
- Glazed canopy
- Two hinged cockpit doors with sliding window
- Map case in pilot's door
- Two wide passenger sliding doors with window of pushout type
- Two rear hinged clam-shell doors
- Longitudinally adjustable energy absorbing pilot and co-pilot seats with head rest and 4-point safety belts with automatic locking system
- Cabin boarding grips (LH and RH)
- Interior paneling with integrated basic sound insulation
- Flight controls (pilot side)
- Instrument panel with extension on pilot's side and glare shield
- Ram-air and electrical ventilating system for cockpit and cabin
- Bleed air heating system
- Ventilation for avionics deck
- Headset holder in the cockpit, rotatable
- Portable fire extinguisher
- Stowage net for first aid kit at the LH rear clam-shell door
- 2 flashlights (torches)
- Slant panel
- Centre console
- Windscreen wiper for pilot and co-pilot
- Door open warning

- **SB SARIB BELOW CAPTAIN AND COPILOT SEATS**

Basic Instrumentation

Central Panel

- Usage Monitoring System (UMS)
- "One hundred feet" alert
- Directional Gyro Free Steering Mode
- Cockpit Control Panel (CCP) for FDS
- Radar altimeter

Flight Display Subsystem (FDS) composed of 2 smart multifunction displays (6 x 8 inch) providing the following functions:

- Flight Navigation Display (FND) page
- Vehicle Monitoring Display (VMD) pages

Vehicle Management Subsystem (VMS) including:

- 2 duplex Aircraft Management Computer (AMC)

Reference sensors:

- 3 Attitude and Heading Reference Sensors (AHRS)
- 2 Air Data sensors (electrically heated pitot tube and static port)
- 2 Three Axis Magnetometers (TAM)

Stand-by instruments

- Integrated Electronic Standby Instrument (IESI)
- Stand-by compass

Warning Unit:

- Engine fire warning with fuel emergency shut-off
- Warning lights
- Fire extinguishing system warning
- MFC Panel
- Data Transfer Device (DTD)

Engine Switch Panel:

- Digital engine control (FADEC)

Power Plant

- Two TURBOMECA ARRIEL 2E turbine engines with electronic engine control (double channel FADEC)
- Crash resistant fuel system with a flexible bladder-type fuel main tank and supply tank (split into two sections)
- Two independent oil cooling and lubrication systems of the engines
- Fire detection and extinguishing system
- Chip detectors with quick-disconnect plugs
- Twin-engine OEI-training mode
- Automatically controlled variable rotor speed system
- Cycle counter
- Drain system
- Fire walls

Transmission System

- Main transmission including an independent redundant lubrication system and monitoring sensors
- Chip detector system with quick-disconnect plug (main transmission)
- Free wheel assemblies in the engine input drives
- Rotor brake system
- Tail rotor transmission system with splash lubrication and oil level sight gauge
- Chip detector system with quick-disconnect plug (tail rotor gearbox)

Rotor and Flight Controls

- Hingeless main rotor (System Bölkow) with 4 glass and carbon fibre reinforced blades with erosion protection strip
- Fenestron®-type tail rotor with ten composite blades (asymmetric blade spacing) and stator
- Tail rotor gearbox cover
- Basic provisions for an easy integration of a balancing system
- Dual hydraulic boost system for cyclic and collective blade control of the main rotor
- Tail rotor control system with flexball cable and dual hydraulic booster
- Main rotor blade tip painting (yellow)
- Mast moment system
- Dual Duplex 4-axis Digital Automatic Flight Control System including upper modes

Electrical Installation

Power Generation System

- Two starter/generators (2 x 200 A, 28 VDC)
- Concorde Lead Acid battery, (24 V, 42 Ah)
- External power connector (STANAG 3302)
- Passenger USB Connector

Power Distribution System

- Two primary busbars
- Two essential busbars
- Two shedding busbars
- Two non-essential busbars (80 A) - for optional equipment only
- Battery bus
- One utility receptacle in cargo compartment (28VDC, 20A)
- DC power control

Lighting

- Anti-collision warning light (red flashing), LED
- Fixed landing light (250 W)
- Three position lights (red, green, white), LED
- Adjustable instrument lighting

- One utility light in the cockpit
- Lights in the cabin and cargo compartment
- Boarding illumination

Radio

- Two radio master switches

CUSTOMISED HELICOPTER DEFINITION

Item	Document Reference	Commercial Reference	Title	Qty [EA]
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Standard Aircraft

1	00-10042-A	D0000-002-00	H145 Baseline Aircraft 145 D-2 17.100.01 E	1
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Mandatory Items

05 General Equipment

2	05-03015-A	D2562-000-00	First Aid Kit	1
3	05-22028-B	D7935-000-00	Fuzz burner for engines, main transmission and Fenestron® gearbox	1
4	05-22029-A	D7114-002-00	Improved engine cowling heat protection, RH	1
5	05-22029-A	D7114-001-00	Improved engine cowling heat protection, LH	1
6	05-23008-B	D7165-000-00	Engine compressor wash kit	1
7	05-31121-A	D2514-200-00	Tinted sun shades for cockpit windshield roof section	1
8	05-37027-A	D6701-001-00	Co-pilot flight controls	1
9	05-38024-C	D3111-101-00	Dual Pilot Instrument panel (2 x 7") instead of Single Pilot Instrument Panel	1
10	05-39017-A	D2513-001-00	Map case in co-pilot door	1
11	05-41012-A	D2143-000-00	Electrical heating system	1
12	05-68012-A	D3343-000-00	Additional electrical unit	1
13		D6214-000-00	High visibility PAINTING MAIN ROTOR BLADES	1

06 Specific Mission Equipment

14	-	D334M30A1001	Search & landing light, LED	1
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07 Interior Layout

15	07-00029-A	D1830-000-00	Active Vibration Control System	1
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08 Avionics (Solution)

16	08-00449-A	D2300-000-08	Avionics Package DP IFR GTN 750 / GTX 335R	1
17	08-16116-B	D2352-000-00	Digital Voice Control System (DVCS 6100), incl. ACU 6100 (Becker), pilot + co-pilot	1
18	08-22077-A	D2325-700-00	Transponder GTX 335R (Garmin) incl. ADS-E out	1
19	08-25035-A	D3455-000-00	Distance Measuring Equipment DME-4000 (Rockwell Collins)	1
20	08-26058-A	D3431-000-00	Marker beacon receiver MKR3300-1 (Becker)	1
21	08-43063-B	D3463-312-00	GPS/NAV/COM GTN 750 (Garmin), pilot	1
22	08-43063-B	D3463-311-00	GPS/NAV/COM GTN 750 (Garmin), co-pilot	1
23	08-43079-A	D3464-000-00	Wireless connectivity Connex (Garmin)	1
24	08-65048-B	D3161-000-00	Flight Display Subsystem (FDS), co-pilot	1
25	08-99006-A	D0000-151-08	Avionics Package DP IFR GTN Series interconnection/wiring	1

08 Avionics

26	08-35055-C	D3446-000-00	Helicopter Terrain Awareness and Warning System (H-TAWS) - Helionix	1
27	08-35057-B	D3446-100-00	Synthetic Vision System (SVS) - Helionix	1
28	08-41031-A	D3160-000-00	SBAS RNP approach capability	1
29	08-82000-B	D3139-000-00	Lightweight Aircraft Recording System (LARS) Alerts Vision 1000	1

Optional Items

05 General Equipment

30	05-02063-B	D1113-300-00	Complex exterior painting instead of standard painting	1
31	05-02066-A	D1113-500-00	Surface protective coating (Airglaze)	1
32	05-12013-A	D7113-000-00	Additional maintenance handles on transmission cowling	1
33	05-31126-B	D5634-600-00	Tinted push-out cabin windows	1
34	05-31126-B	D5634-100-00	Tinted windows in cockpit doors	1
35	05-31126-B	D5634-200-00	Tinted windows in sliding doors	1
36	05-31126-B	D5634-400-00	Tinted windows in cabin	1
37	05-31126-B	D5634-501-00	Tinted windows in clam-shell door, LH	1

38	05-31126-B	D5634-502-00	Tinted window in clam-shell door, RH	1
39	05-36034-A	D5310-000-00	Step area on cabin roof	1
40	05-42048-A	D2111-000-00	Air Conditioning System (ACS)	1
41	05-42048-A	D2122-200-00	Environmental Control System (ECS)	1
42	05-85017-B	D2841-000-00	Fuel management system (fuel flow meters)	1
43	05-92018-C	D6611-000-00	Main rotor blade folding, basic kit	1
44	05-92018-C	D6611-100-10	Main rotor blade folding, fixed provisions for ground handling kit	1
45	05-92018-C	D6611-100-20	Main rotor blade folding, ground handling kit	1
46	05-93014-B	D1021-100-00	Lashing points	1
47	05-93014-B	D1021-200-00	Lashing points for ship landings	1

06 Specific Mission Equipment

48	06-46010-B	D3347-000-00	White strobe lights	1
49	06-61032-B	D3214-000-10	Emergency floats, fixed provisions	1
50	06-65013-A	D2625-200-00	2nd Portable fire extinguisher	1
51	06-67064-A	D2563-100-00	Emergency Locator Transmitter (ELT)	1
52	06-61033-A	D3214-100-00	Emergency floats landing gear	1
53	05-67030-B	D2465-100-00	Power sockets (28 VDC) at center console and LH rear cabin wall	1

07 Interior Layout (solution)

54	07-80050-A	MAG-45200-X00-1	Corporate Stylence®, 8 Passengers, incl. 1 Cabinet, Package (MAG-STC)	1
55	07-80051-A	MAG-45220-170-1	Stylence®, Metal placards	1
56	07-80052-A	MAG-45220-150-1	Stylence®, Leather covers for sliding door map case (LH/RH)	1
57	07-80053-A	MAG-45220-106-1	Stylence®, Stainless steel protection sheets at entry	1
58	07-83034-A	MAG-45210-120-2	Stylence®, Leather Cuffs for Controls	1
59	07-83035-A	MAG-45210-121-1	Stylence®, Rotor brake lever	1
60	07-85050-A	MAG-45240-101-2	Stylence®, Cabinet	1
61	07-86017-A	MAG-45230-110-2	Stylence®, Protection covers for crew seats	2

62	07-86018-A	MAG-45230-1 20-2	Stylence®, Protection covers for passenger seats	8
63	07-86037-A	MAG-45230-1 40-2	Stylence®, Leather covers for crew seats	2
64	07-86038-A	MAG-45230-1 50-2	Stylence®, Leather covers for passenger seats	8
65	07-91097-A	MAG-45210-1 10-2	Stylence®, Carpet for cockpit and cabin, three rows seating layout	1
66	07-91098-A	MAG-45220-1 30-1	Stylence®, Cabin ceiling with air outlets, lights and center carbon plate	1
67	07-91111-A	MAG-45220-1 40-1	Stylence®, Carbon inserts for adapter plates	1
68	07-91116-A	MAG-45220-1 80-1	Stylence®, Lather covers for frame at rear clamshell doors	1
69	07-91117-A	MAG-45230-1 30-2	Stylence®, Protection covers for carpet	1
70	07-91124-A	MAG-45230-1 35-1	Stylence®, Armrest at window niche	2

07 Interior Layout

71	07-15028-B	D2512-101-00	Height adjustable copilot seat instead of standard copilot seat	1
72	07-15028-B	D2512-102-00	Height adjustable pilot seat instead of standard pilot seat	1
73	07-30067-B	D2581-000-00	Sound proofing kit	1
74	07-50071-A	D5221-000-00	Jettisonable cockpit doors	1
75	07-60042-A	D2513-100-00	Map cases in sliding doors	1
76	07-91052-A	D2582-100-00	Special Interior Painting	1
77	07-91125-A	MAG-45290-1 10-1	Stylence®, Silk Color Line	1

08 Avionics

78	08-18067-A	D2340-100-00	Headset electrical power supply (28 VDC), fixed provisions	1
79	08-31073-A	D3443-400-00	Style Nose	1
80	08-31064-A	D3443-020-10	Color weather radar RDR 2000 (Honeywell), fixed provisions	1
81	08-31064-A	D3443-020-30	Color weather radar RDR 2000 incl. Control unit CP466 - NVG (Honeywell), vendor parts	1
82	0835066-A	D2327-100-00	Traffic Advisory System TAS 620A (Avidyne)	1
83	08-65056-C	D2491-100-00	Electrical fixed provisions, 5 VDC, center console	1
84	08-65056-B	D3113-002-00	Tablet PC Holder, pilot	1
85	08-65056-B	D2491-002-00	Electrical fixed provisions, 5 VDC, pilot	1

86	08-65056-B	D3113-001-00	Tablet PC Holder, copilot	1
87	08-65056-B	D2491-001-00	Electrical fixed provisions, 5 VDC, copilot	1
88	08-81036-B	D3132-000-00	Cockpit Voice and Flight Data Recorder (CVFDR)	1

Detachable Parts

06 Interior Layout

89	07-27021-C	D2522-600-00	Passenger seating, 3 club seats (rear row, facing in flight direction)	1
90	07-27021-C	D2522-502-00	Passenger seating, 1 club seat (middle row, facing in flight direction, RH)	1
91	07-27021-C	D2522-501-00	Passenger seating, 1 club seat (middle row, facing in flight direction, LH)	1
92	07-27021-C	D2522-300-00	Passenger seating, 3 club seats (front row, facing against flight direction)	1

08 Avionics

93	08-18064-C	D2333-000-01	Headset adapter cable crew GLENAIR /LEMO ANR	2
94	08-18064-C	D2333-000-01	Headset adapter cable pax GLENAIR /LEMO ANR	8
95	08-80008-A	D3132-300-00	Cockpit Voice and Flight Data Recorder (CVFDR), download kit	1

Amendment

08 Avionics

96	07-91140-A	MAG-45290-1 92-2	Stylence, change of leather type and color (AH range)	1
97	07-91140-A	MAG-45290-1 93-2	Stylence, change of Stylence carbon into wooden surface (AH range)	1
98	07-91140-A	MAG-45290-1 94-2	Stylence, change of Stylence metal into metal (AH range)	1
99	07-91140-A	MAG-45290-1 95-2	Stylence, change of carpet into carpet of AH range	1
100	07-91140-A	MAG-45290-1 80-2	Stylence, change of Stylence safety belt color	1
101	tbd	MAG-tbd	Saddlery Customisation on each seat (x10) and on cabinet	1
102	07-86037-C	MAG-45230-1 45-2	Stylence, sheep skin detachable	2
103	06-61038-A	D2565-100-10	Emergency floats with integrated liferafts (DART - STC), fixed provisions	1
104	06-61038-A	D2565-100-20	Emergency floats with integrated liferafts (DART - STC), detachable parts	1

GROUND HANDLING KIT AND LOOSE PARTS

Item	Description	Picture	Part Number	Comment	Qty [EA]
1	Set of keys for cockpit doors, cabin doors, baggage compartment doors and tank flap (one-key system)		N/A	loose	2
2	ATE Present			loose	1
3	Dust cover co-pilot collective		D38999/33M15R	loose	1
4	Battery Key			loose	1
5	Battery Dust Cap			Loose	1
6	Compass compensation key (red) (incl. Installation drawing)			loose	1
7	Cargo Rings			Installed H/C	5
8	Pitch cover		B671M6018101	loose	1
9	Glare Shield Cover 1		D251M48-11101	loose	1
10	Glare Shield Cover 2		D251M48-12101	loose	1
11	Cold Weather Kit		Pax Auslässe: B854M2002101 Ölküler: B854M2001101	loose	1
12	Headset Adapter Cables			Installed H/C	10
13	Transportation Bag		L132M0016101	loose	1
14	Cover engine outlet		B103P0081101	loose	2
15	Fixing cover main rotor blades		B103P0013101	loose	4
16	Cover pitot static system		L132M0014101	loose	2
17	Cover ventilation engine (Cowling)		B103P0004101	loose	3
18	Cover ventilation cabin		B103P0010101	loose	2
19	Cover ventilation engine (bleed valve)		B103P0011101	loose	2
20	Cover temperature sensor		B103P0011101	loose	2
21	Portable fire extinguishers			Installed H/C	2
22	Disks		- D313P20S3003 - CVFDR DB - X135P11S0105 - MGS 1.5 - X467P41S0500 - AHD L V5.0		1

- X467P70S0103 - FDCR 1.3

23	Software and loadable files	- AMC D462C01S0600 - MFC D463C01S0600 MISSING - PCF D464C31S3031	1
24	Fire Extinguisher leather cover with assembly kit	Installed H/C	1
25	Detachable Sheep-skin covers	Installed H/C	2
26	Seat Protection covers	loose	10
27	Spidertracks - Spider 6 GPS tracking device	Installed H/C	1

DOCUMENTATION

Item	Description	Picture	Part Number	Comment	Qty [EA]
1	Engine Log Books for Engine No.1 and Engine no.2		60523 60522	HBG FRANCE	2
2	Journey Log Book				1
3	Aircraft Log Book				1
4	Helicopter Delivery Data-Package (Vol.1)				1
5	Individual Inspection Log Book (Vol.2)				1
6	Avionic Manual (AvM) Vol.1 and 2 DVD				1
7	Flight Manual (FLM) incl. Flight Manual Supplements			3 Binders Onboard	1
8	Pilot Checklist (PCL)				1
9	Electrical load and power source capacity analysis			HBG	1
10	Weight and Balance Report			Within onboard FLM	1
11	Document Box				1

VENDOR DOCUMENTATION

Item	Description	Picture	Part Number	Comment	Qty [EA]
1	Sets of Garmin GTN 750 series product kit		K00-00488-88		2
2	• Garmin GTN 750 pilots guide				2
3	• Garmin GTN 750 cockpit reference guide (CRG)				2
4	• Garmin GTN series familiarisation DVD				2
5	• Garmin GTN PC Trainer				2
6	• Garmin GTN 750 Product Support				2
7	• Garmin GTN 6XX/7XX SUPP DATA SD Card				1
8	KANNAD ELT Emergency Locator Transmitter Product kit; consisting of:				1
9	• Initial Installation Manual		DOC 09082E		1
10	• Operational Manual		DOC 09079E		1
11	• General wiring drawing Dongle IF GPS RS232		DOC 11045A		1
12	• RC310 Installation and Operation Manual		S1820513-26		1
13	BECKER Avionics Remote Electronic Unit Installation and Operation		DV64460.03		1
14	APPAREO Systems VISION 1000 User Kit; consisting of:		1810307		1
15	• APPAREO Vision 1000 Software				1
16	• APPAREO Vision 1000 Abbreviated Component Maintenance Manual		31-37-00		1
17	• APPAREO Vision 1000 Pilots Guide				1
18	• APPAREO Vision 1000 SW Product Key and Password				1
19	• APPAREO Vision 1000 Ethernet Harness - Series 803				1
20	• APPAREO Vision 1000 MicroMate SD Card Reader				1

21	Paralux Flashlight Manual		2
22	Avidyne TAS Literature Pack incl. CD	63-2024	1
23	Honeywell - RDR 2000 Pilot Guide		1
24	Aircraft Laptop with MGS / AHDL		1
25	Interior Door Cover		

TECHNICAL REMARKS