

# **TYPE-CERTIFICATE**

# **DATA SHEET**

No. EASA.A.607

for BS 115

Type Certificate Holder BLACKSHAPE S.P.A.

Strada Statale 16 KM 841+900 70043 Monopoli (BA) ITALY

For models:

BS 115 BK 160 BK 160-200 BK 160TR



TE.CERT.00048-001 © EU Aviation Safety Agency, 2025. All rights reserved. ISO9001 Certified. Page 1 of 29 Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

### Contents

SECTION A: BS 115	;
A.I. General	
A.II. EASA Certification Basis	5
A.III. Technical Characteristics and Operational Limitations	ŀ
A.IV. Operating and Service Instructions	1
A.V. Notes	1
SECTION B: BK 160	5
B.I. General	5
B.II. EASA Certification Basis	5
B.III. Technical Characteristics and Operational Limitations	)
B.IV. Operating and Service Instructions12	2
B.V. Notes	}
SECTION C: BK 160-20014	ŀ
C.I. General14	ŀ
C.II. EASA Certification Basis14	ŀ
C.III. Technical Characteristics and Operational Limitations19	;
C.IV. Operating and Service Instructions18	5
C.V. Notes	)
SECTION D: BK 160TR	)
D.I. General20	)
D.II. EASA Certification Basis20	)
D.III. Technical Characteristics and Operational Limitations22	
D.IV. Operating and Service Instructions25	;
D.V. Notes	;
SECTION ADMINISTRATIVE	
I. Acronyms & Abbreviations27	1
II. Type Certificate Holder Record28	\$
III. Change Record	)



BS 115

# SECTION A: BS 115

A.I. <u>General</u>

1. Type/ Model /Variant		
1.1 Туре	BS 115	
1.2 Model	BS 115	
1.3 Variant		
2. Airworthiness Category	Normal	
3. Manufacturer	Blackshape SPA	
	SS 16 KM 841+900 Z.I.	
	70043 Monopoli (BA) Italy	
4. EASA Type Certification Application Date	14 March 2013	
5. State of Design Authority	N/A	
6. State of Design Authority Type Certificate Date	N/A	
7. EASA Type Certification Date	03 April 2017	

# A.II. EASA Certification Basis

1. Reference Date for determining the	15 September 2014	
applicable requirements		
2. Airworthiness Requirements	CS-VLA Amdt. 1, 5 May 2009	
3. Special Conditions	none	
4. Exemptions	none	
5. (Reserved) Deviations	none	
6. Equivalent Safety Findings	none	
7. Environmental Protection	see TCDSN EASA.A.607	



	TCDS No.: EASA. Issue: 09	A.607	BS 115		Da	ate: 06 February 2025
A.III.	Technical Cha	racteristics and	Operational Lim	nitations		
1. Тур	e Design Definit	ion			S115-001" Typ est applicable i	-
2. Des	cription		configuration. variable pitch	Equipped constant s	with retractabl beed propeller.	dem two-seater e landing gear and Airframe made by ced epoxy (CFRP).
3. Equ	ipment		Equipment list Flight Manual'		ed in BCV-00-38	8-00 "BS115 Airplane
4. Din	nensions					
			Span		9.000 m	29.53 ft
			Length		7.437 m	24.40 ft
			Height		2.455 m	8.05 ft
			Wing area		10.31 m2	111.00 sqft
5. Eng	5. Engine					
	5.1. Model		Lycoming IO-3	20-D1B		
	5.2 Type Certil	ficate	TCDS no. US 1	E12		
	5.3 Limitations	5	Max Take-off I		160 shp	
			Max Continuous Power: 160 shp Other limitations are listed in BCV-00-38-00 "BS115 Airplane Flight Manual" Section 2			
6. Loa	d factors					
		Max positive Max negative	Flap UP +5 -2.5	Flap DOV +2.0 0	VN	
7. Pro	peller					
	7.1 Model		Hartzell Rapto	r series		
			Hub: 3C1-L675	5A1		
			Governor: S-1-	-78		
			Blades: 76C03			
	7.2 Type Certil		TCDS No. IM.P	9.137		
	7.3 Number of	blades	3			
	7.4 Diameter	otation	1.75 m (69 in)	st's view)		
	7.5 Sense of R	υτατιστι	Clockwise (pilo	JUS VIEW)		

	TCDS No.: EASA.A.607 Issue: 09	BS 115	Date: 06 February 2025	
8. Fluic	ds			
	8.1 Fuel	Refer to AFM, Section	on 2 for engine fuels	
	8.2 Oil	Refer to AFM, Section	on 2 for engine oil	
	8.3 Coolant	N/A		
9. Fluic	d capacities			
	9.1 Fuel	2 tanks, 64 litres (17 litres (30 USG).	' USG) each. Total usable capacity: 113.5	
	9.2 Oil			
		Total:	7.57 litres (8 quart)	
		Minimum:	3.78 litres (4 quart)	
	9.3 Coolant system capacity	N/A		
10. Air	Speeds			
		Never Exceed Speed	V <sub>NE</sub> : 172 KCAS	
		Max. structural cruis	sing speed $V_{NO}$ : 150 KCAS	
			ring speed V <sub>A</sub> : 123 KCAS	
		Max. speed with landing gear extended: $V_{LE}$ : 90 KCAS		
		Max. speed for landing gear operation V <sub>LO</sub> : 90 KCAS Max. speed with flaps fully deployed V <sub>FE</sub> : 90 KCAS		
		Max. speed with ha	uny deployed VFE. 50 KCAS	
11. Ma	aximum Operating Altitude	11500 ft – Density A	ltitude	
12. Ap	proved Operations Capability	Day VFR		
		Flights in known icin	g conditions is prohibited	
13. Ma	aximum Masses			
		Max. Take-off:	750 kg (1653 lbs)	
		Max. Landing	750 kg (1653 lbs)	
14. Cei	ntre of Gravity Range	23% MAC 31%	MAC at 750 Kg	
			MAC at 712 Kg	
		Mean Aerodynamic	Chord: 1360.26 mm	
15. Dat	tum	800 mm aft of comp	oosite bulkhead.	
			plane fuselage centreline.	

16. Control surface deflections

Aileron (Left /	Right)	Up: 28° ±2° Down: 23° ±2°
Elevator		Up: 29° ±1° Down: 8° ±1°
Rudder		Left: 25° ±2° Right: 25° ±2°
Elevator trim		UP: 25° ±1° Down: 15° ±1°
Flap		Take-off: 15° ±1° Landing: 30° ±1°
	Baggage compart	ment surface

17. Levelling Means	Baggage compartment surface
18. Minimum Flight Crew	1 pilot seated in the front seat
19. Maximum Passenger Seating Capacity	1
20. Baggage/ Cargo Compartments	33 kg capacity, 2.5 m aft of datum
21. Wheels and Tyres	Nose Landing Gear: 5.00-5"
	Main Landing Gear: 4.00-5"
	For approved tyres and ratings, see AMM
22 Serial Numbers Eligible	S/N BCV.001 and subsequent

# A.IV. Operating and Service Instructions

1. Flight Manual	BCV-00-38-00 "BS115 Aircraft Flight Manual", Issue 1
2. Maintenance Manual	BCV-00-39-00 "Aircraft Maintenance Manual", Issue 0
3. Structural Repair Manual	N/A
4. Weight and Balance Manual	included in the AFM
5. Illustrated Parts Catalogue	N/A

# A.V. Notes

N/A



BS 115

# SECTION B: BK 160

B.I. General

1. Type/ Model / Variant	
1.1 Type	BS 115
1.2 Model	BK 160 (refer to B.V. Note 1)
1.3 Variant	
2. Airworthiness Category	Normal
3. Manufacturer	Blackshape SPA
	SS 16 KM 841+900 Z.I.
	70043 Monopoli (BA) Italy
4. EASA Type Certification Application Date	14 March 2013
5. State of Design Authority	N/A
6. State of Design Authority Type Certificate Date	N/A
7. EASA Type Certification Date	03 April 2017
B.II. EASA Certification Basis	
1. Reference Date for determining the	15 September 2014
applicable requirements	
2. Airworthiness Requirements	CS-VLA Amdt. 1, 5 May 2009
3. Special Conditions	SC-CVLA-div01-02 "CS-VLA Aeroplanes with
	MTOM of more than 750 Kg"
	SC-OVLA.div03-02 – Night VFR Operation with VLA
4. Exemptions	none
5. (Reserved) Deviations	none
6. Equivalent Safety Findings	ESF to SC-OVLA.div-03-02 SC 1143 and SC 1147
	ESF to CS VLA.161 (b)(2)(ii) Amdt 1
7. Environmental Protection	see TCDSN EASA.A.607

	TCDS No.: EASA.A.607 Issue: 09	BS 115			Date: 06 February 2025
B.III.	Technical Characteristics and	d Operational Li	<u>imitations</u>		
1. Тур	e Design Definition			atest applicable	ype Design Data e issue.
2. Des	cription	configuration variable pitcl	n. Equippe h constant	d with retracta speed propelle	ndem two-seater ble landing gear and er. Airframe made by orced epoxy (CFRP).
3. Equ	ipment	Equipment li Flight Manua			38-00 BS115 Airplane
4. Din	nensions				
		Span		9.000 m	29.53 ft
		Length		7.437 m	24.40 ft
		Height		2.455 m	8.05 ft
		Wing area		10.31 m2	111.00 sqft
5. Eng	ine				
	5.1. Model	Lycoming IO	-320-D1B		
	5.2 Type Certificate	TCDS no. US	1E12		
	5.3 Limitations	Max Take-of	f Power:	160 sł	
		Max Continu			•
		Other limitat Flight Manua			38-00 "BS115 Airplane
6. Loa	d factors				
	Max positivo	Flap UP +4.4	Flap D( +2.0	JWN	
	Max positive Max negative	-2.0	+2.0 0		
	-	2.0	0		
7. Pro					
	7.1 Model	Hartzell Rapt			
		Hub: 3C1-L6 Governor: S-			
		Blades: 76CC			
	7.2 Type Certificate	TCDS No. IM			
	7.3 Number of blades	3			
7.4 Diameter 1.75 m (69 in)					
7.5 Sense of Rotation 0		Clockwise (p	-	)	
8. Flui	ds				
	8.1 Fuel	Refer to AFM	1, Section	2 for engine fue	els
	8.2 Oil	Refer to AFM	1, Section	2 for engine oil	
	8.3 Coolant	N/A			



	TCDS No.: EASA.A.607 Issue: 09	BS 115		Date: 06 February 2025
9. Fluid	9.1 Fuel	2 tanks, 64 litre litres (30 USG).	s (17 USG) each. Tota	usable capacity: 113.5
	9.2 Oil	Total: Minimum:	7.57 litres (8 qu 3.78 litres (4 qu	-
10. Air	9.3 Coolant system capacity Speeds	N/A Never Exceed Speed $V_{NE}$ : 172 KCAS Max. structural cruising speed $V_{NO}$ : 148 KCAS Operating Manoeuvring speed $V_A$ : 122 KCAS Max. speed with landing gear extended: $V_{LE}$ : 90 KCAS Max. speed for landing gear operation $V_{LO}$ : 90 KCAS Max. speed with flaps fully deployed $V_{FE}$ : 90 KCAS		
	ximum Operating Altitude proved Operations Capability	11500 ft – Density Altitude Day/Night VFR Flights in known icing conditions is prohibited		
13. Ma	ximum Masses	Max. Take-off:	850 kg (1874	l lbs)
		Max. Landing	850 kg (1874	lbs)
	ntre of Gravity Range		31% MAC at 850 Kg 31% MAC at 765 Kg amic Chord: 1360.26 r	nm
15. Dat	um	800 mm aft of composite bulkhead. 165 mm up from airplane fuselage centreline.		ntreline.



16. Control surface deflections

		Aileron (Left /	' Right)	Up: 14° ±1°
				Down: 13° ±1°
		Elevator		Up: 25° ±1°
				Down: 8° ±1°
		Rudder		Left: 25° ±2°
				Right: 25° ±2°
		Elevator trim		DWN: 30° ±2°
				UP: 4° ±1°
		Flap		Take-off: 15° ±1°
				Landing: 30° ±2°
				_
	17. Levelling Means		Baggage cor	npartment surface
	18. Minimum Flight Crew		1 pilot seate	d in the front seat
	19. Maximum Passenger Seating Capacity	ity	1	
20. Baggage/ Cargo Compartments 21. Wheels and Tyres		33 kg capacity, 2.5 m a		ty, 2.5 m aft of datum
			Nose Landin	g Gear: 5.00-5″
			Main Landin	g Gear: 4.00-5"
			For approve	d tyres and ratings, see A

22. Serial Numbers Eligible

AMM s/n BCV.21005 and subsequent (refer to B.V. Note 2)

# B.IV. Operating and Service Instructions

1. Flight Manual	BCV-00-38-00 "BS115 Aircraft Flight Manual", Issue 2 rev.0 or later approved revision
2. Maintenance Manual	BCV-00-39-00 "Aircraft Maintenance Manual", Issue 1 rev.0 or later approved revision
3. Structural Repair Manual	N/A
4. Weight and Balance Manual	included in the AFM
5. Illustrated Parts Catalogue	N/A



# B.V. Notes

- BK 160 model consists of BS 115 model modified as per major changes MOD-BCV-17-020 "BS 115 weight increase to 850 kg" (EASA Approval 10071128), major change MOD-BCV-17-021 "Internal Muffler (EASA Approval 10071131) and MOD-BCV-17-026 "BS 115 Night-VFR" (EASA Approval 10071129).
- 2) Aircraft S/N BCV.21003 and S/N BCV.21004 were originally produced as BS 115 model with applied Major Changes see B.V. Note 1) resulting in conformity of these 2 aircraft with basic specifications of BK 160 model.



BS 115

# SECTION C: BK 160-200

1. Type/ Model / Variant	
1.1 Туре	BS 115
1.2 Model	BK 160-200
1.3 Variant	
2. Airworthiness Category	Normal
3. Manufacturer	Blackshape SPA
	SS 16 KM 841+900 Z.I.
	70043 Monopoli (BA) Italy
4. EASA Type Certification Application Date	25 August 2021
5. State of Design Authority	N/A
6. State of Design Authority Type Certificate Date	N/A
7. EASA Type Certification Date	30 May 2022
C.II. EASA Certification Basis	
1. Reference Date for determining the applicable requirements	25 August 2021 (refer to C.V. Note 1)
2. Airworthiness Requirements	CS-VLA Amdt. 1, 5 May 2009
2. An worthiness requirements	amended with CS 23.2605(b) Amdt. 5;
	in addition, for aircraft embodying:
	MOD-BCV-22-013 "Titanium Firewall": CS 23.2440 Amdt. 6.
	CS-ACNS Issue 1, 17 December 2013.
3. Special Conditions	SC-CVLA-div01-02 [CS-VLA Aeroplanes with MTOM of more than 750 Kg]
	SC-OVLA.div03-02 [Night VFR Operation with VLA]
	SC-ELA.2015-01 [Lithium Battery Installation]
4. Exemptions	none
5. (Reserved) Deviations	none
6. Equivalent Safety Findings	ESF to SC-OVLA.div-03-02 SC 1143 and SC 1147
	ESF to CS VLA.161 (b)(2)(ii) Amdt 1
7. Environmental Protection	see TCDSN EASA.A.607



TE.CERT.00048-001 © EU Aviation Safety Agency, 2025. All rights reserved. ISO9001 Certified.Page 14 of 29Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.Page 14 of 29

	DS No.: EASA.A.607 ue: 09	BS 115		D	ate: 06 February 2025
C.III. <u>Te</u>	chnical Characteristics and	<b>Operational Lin</b>	nitations		
1. Type De	esign Definition			3K160200-001' test applicable	' Type Design Data issue.
2. Descript	tion	configuration. variable pitch	Equipped constant s	with retractab peed propeller	idem two-seater le landing gear and . Airframe made by rced epoxy (CFRP).
3. Equipme	ent	Equipment list Manual Sectio	•	ed in BCV-00-3	8-06 Airplane Flight
4. Dimensi	ions				
		Span		9.000 m	29.53 ft
		Length		7.437 m	24.40 ft
		Height		2.455 m	8.05 ft
		Wing area		10.31 m2	111.00 sqft
5. Engine					
5.1	1. Model	Lycoming IO-3	20-D1B		
5.2	2 Type Certificate	TCDS no. US 1	E12		
5.3	3 Limitations	Max Take-off	Power:	160 shp	
		Max Continuous Power: 160 shp			
		Other limitatio Manual" Secti		ed in BCV-00-3	8-06 "Aircraft Flight
6. Load fac	ctors				
<b>N</b> 4.		Flap UP +4.4	Flap DO	WN	
	ax positive ax negative	+4.4 +2.0 -2.0 0			
	ax negative	-2.0	0		
7. Propelle					
7.1	1 Model	Hartzell Raptor series			
		Hub: 3C1-L675A1			
		Governor: S-1- Blades: 76C03	-		
7 3	2 Type Certificate	TCDS No. IM.P			
	3 Number of blades	3	.137		
	4 Diameter	1.75 m (69 in)			
	5 Sense of Rotation	Clockwise (pilot's view)			
8. Fluids			,		
8.1	1 Fuel	Refer to AFM,	Section 2	for engine fuel	S
8.2	2 Oil	Refer to AFM, Section 2 for engine oil			
8.3	3 Coolant	N/A			



	TCDS No.: EASA.A.607 Issue: 09	BS 115		Date: 06 February 2025
9. Fluid	9.1 Fuel	2 tanks, 64 litre litres (30 USG).	s (17 USG) each. Total	usable capacity: 113.5
	9.2 Oil	Total: Minimum:	7.57 litres (8 qua 3.78 litres (4 qua	-
10. Air	9.3 Coolant system capacity Speeds	Max. structural Operating Man Max. speed wit Max. speed for	peed V <sub>NE</sub> : 172 KCAS cruising speed V <sub>NO</sub> : 14 peuvring speed V <sub>A</sub> : 12 h landing gear extende landing gear operation h flaps fully deployed V	22 KCAS ed: V <sub>LE</sub> : 110 KCAS n V <sub>LO</sub> : 110 KCAS
	ximum Operating Altitude proved Operations Capability	11500 ft – Density Altitude Day/Night VFR Flights in known icing conditions is prohibited		
13. Ma	ximum Masses	Max. Take-off:	850 kg (1874	lbs)
		Max. Landing	850 kg (1874	lbs)
	ntre of Gravity Range	-	28.5% MAC at 850 Kg 28.5% MAC at 765 Kg amic Chord: 1360.26 m	ım
15. Dat	um		omposite bulkhead. n airplane fuselage cer	ntreline.



16. Control surface deflections

	Aileron (Left /	' Right)	Up: 14° ±1°
			Down: 13° ±1°
	Elevator		Up: 25° ±1°
			Down: 8° ±1°
	Rudder		Left: 25° ±2°
			Right: 25° ±2°
	Elevator trim		DWN: 30° ±2°
			UP: 4° ±1°
	Flap		Take-off: 15° ±1°
			Landing: 30° ±2°
		_	_
17. Levelling Means		Baggage cor	npartment surface
18. Minimum Flight Crew		1 pilot seate	ed in the front seat
19. Maximum Passenger Seating Capac	ity	1	
20. Baggage/ Cargo Compartments		33 kg capaci	ity, 2.5 m aft of datum
21. Wheels and Tyres		Nose Landin	ig Gear: 5.00-5"
		Main Landir	ng Gear: 4.00-5"
		For approve	d tyres and ratings, see AMM

s/n BCV.21009 and subsequent

22. Serial Numbers Eligible

TE.CERT.00048-001 © EU Aviation Safety Agency, 2025. All rights reserved. ISO9001 Certified.Page 17 of 29Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.

### C.IV. Operating and Service Instructions

- 1. Flight Manual BCV-00-38-06 "BK 160-200 Aircraft Flight Manual", rev.0 or later approved revision
- 2. Maintenance Manual BCV-00-39-02 "BK 160-200 Aircraft Maintenance Manual", rev.0 or later approved revision
- 3. Structural Repair Manual N/A

5. Illustrated Parts Catalogue

- 4. Weight and Balance Manual included in the AFM
  - BCV-00-39-03 "BK 160-200 Illustrated Parts Catalogue", rev. 0

#### C.V. Notes

Issue: 09

- 1) The model BK 160-200 was classified according to 21.A.101 as a non-significant change to TC of the BK 160, for which the original reference date was 15 September 2014.
- 2) TCDS Annex 2 contains reference to AMC material used by the TC holder in case that CS-23 amendment 5, or later, is applicable.



BS 115

# SECTION D: BK 160TR

D.I. General

1. Type/ Model / Variant	
1.1 Туре	BS 115
1.2 Model	BK 160TR
1.3 Variant	
2. Airworthiness Category	Normal
3. Manufacturer	Blackshape SPA
	SS 16 KM 841+900 Z.I.
	70043 Monopoli (BA) Italy
4. EASA Type Certification Application Date	7 April 2020
5. State of Design Authority	N/A
6. State of Design Authority Type Certificate Date	N/A
7. EASA Type Certification Date	14 June 2022
D.II. EASA Certification Basis	
1. Reference Date for determining the	7 April 2020
applicable requirements	
2. Airworthiness Requirements	CS-VLA Amdt. 1, 5 May 2009 amended with CS 23.2605(b)(c) Amdt. 5
	in addition, for aircraft embodying:
	MOD-BCV-22-013 "Titanium Firewall":
	CS 23.2440 Amdt. 6;
	MOD-BCV-21-027 "Autopilot – Garmin GFC 500":
	CS 23 Amdt. 5: 23.2205, 23.2225(a),
	23.2300(a), 23.2500, 23.2510(a), 23.2520(a). CS-ACNS Issue 2, 30 April 2019.
3. Special Conditions	SC-CVLA-div01-02 [CS-VLA Aeroplanes with MTOM of more than 750 Kg]
	SC-OVLA.div03-02
	[Night VFR Operation with VLA]
	SC-ELA.2015-01 [Lithium Battery Installation]
4. Exemptions	none
5. (Reserved) Deviations	none
6. Equivalent Safety Findings	ESF to SC-OVLA.div-03-02 SC 1143 and SC 1147
	ESF to CS VLA.161 (b)(2)(ii) Amdt 1 [Longitudinal trim]



TE.CERT.00048-001 © EU Aviation Safety Agency, 2025. All rights reserved. ISO9001 Certified.Page 20 of 29Proprietary document. Copies are not controlled. Confirm revision status through the EASA-Internet/Intranet.Page 20 of 29

ESF to CS VLA 1145(a) [Engine ignition switches] – see note 1 ESF to CS-VLA 1147 [Mixture control] – see note 1 ESF CS-VLA 777 (a) ;(b);(e)(1)(2); (f) [Cockpit controls – flaps] – see note 1 see TCDSN EASA.A.607

### 7. Environmental Protection



	TCDS No.: EASA.A.607 Issue: 09	BS 115			Date: 06 February 2025
D.III.	Technical Characteristics and	l Operational Li	<u>mitations</u>		
1. Тур	e Design Definition			R-BK160-TR-00 atest applicabl	)1" Type Design Data e issue.
2. Des	cription	Single-engine low wing monoplane, tandem two-seater configuration. Equipped with retractable landing gear and variable pitch constant speed propeller. Airframe made by composite material carbon fibre reinforced epoxy (CFRP).			
3. Equ	ipment	Equipment lis Manual Secti		ted in BCV-00-	38-05 Airplane Flight
4. Dim	nensions				
		Span		9.000 m	29.53 ft
		Length		7.437 m	24.40 ft
		Height		2.455 m	8.05 ft
		Wing area		10.31 m2	111.00 sqft
5. Eng	ine				
	5.1. Model	Lycoming IO-	320-D1B		
	5.2 Type Certificate	TCDS no. US	1E12		
	5.3 Limitations	Max Take-off	f Power:	160 sl	hp
		Max Continu	ous Powe	r: 160 sl	hp
		Other limitations are listed in BCV-00-38-05 "Aircraft Flight Manual" Section 2			
6. Loa	d factors				
		Flap UP	Flap DC	JWN	
	Max positive	+4.4 -2.0	+2.0 0		
	Max negative	-2.0	U		
7. Pro					
	7.1 Model	Hartzell Raptor series			
		Hub: 3C1-L675A1			
		Governor: S-			
	_	Blades: 76C0			
	7.2 Type Certificate	TCDS No. IM.	.P.137		
	7.3 Number of blades	3			
	7.4 Diameter	1.75 m (69 in)			
0 5 .	7.5 Sense of Rotation	Clockwise (pi	lot's view	)	
8. Flui		Dofort- ACN	1 Cootie	) for costs - f	
	8.1 Fuel	Refer to AFM, Section 2 for engine fuels			
	8.2 Oil 8.3 Coolant	Refer to AFM, Section 2 for engine oil			
	0.5 COUIdIIL	N/A			



TCDS No.: EASA.A.607 Issue: 09	BS 115	Date: 06 February 2025	
9. Fluid capacities			
9.1 Fuel	2 tanks, 64 litres litres (30 USG).	(17 USG) each. Total usable capacity: 113.5	
9.2 Oil			
	Total:	7.57 litres (8 quart)	
	Minimum:	3.78 litres (4 quart)	
9.3 Coolant system capacity	N/A		
10. Air Speeds	Never Exceed Spe	eed V <sub>NE</sub> : 172 KCAS	
	Max. structural c	ruising speed $V_{NO}$ : 148 KCAS	
		euvring speed V <sub>A</sub> : 122 KCAS	
	•	landing gear extended: V <sub>LE</sub> : 110 KCAS	
	•	nding gear operation $V_{LO}$ : 110 KCAS	
	Max. speed with	flaps fully deployed V <sub>FE</sub> : 100 KCAS	
11. Maximum Operating Altitude	11500 ft – Densit	y Altitude	
12. Approved Operations Capability	Day/Night VFR		
	Flights in known icing conditions is prohibited		
13. Maximum Masses			
	Max. Take-off:	850 kg (1874 lbs)	
	Max. Landing	850 kg (1874 lbs)	
14. Centre of Gravity Range	23% MAC 2	8.5% MAC at 850 Kg	
	19% MAC 2	8.5% MAC at 800 Kg	
	Mean Aerodynan	nic Chord: 1360.26 mm	
15. Datum	800 mm aft of co	mposite bulkhead.	
	165 mm up from	airplane fuselage centreline.	



16. Control surface deflections

	Aileron (Left ,	/ Right) Up: 14° ±1°
		Down: 13° ±1°
	Elevator	Up: 25° ±1°
		Down: 8° ±1°
	Rudder	Left: 25° ±2°
		Right: 25° ±2°
	Elevator trim	DWN: 30° ±2°
		UP: 4° ±1°
	Flap	Take-off: 15° ±1°
		Landing: 30° ±2°
17. Levelling Means		Baggage compartment surface
18. Minimum Flight Crew		1 pilot seated in the front seat
19. Maximum Passenger Seating Ca	pacity	1
20. Baggage/ Cargo Compartments		33 kg capacity, 2.5 m aft of datum
21. Wheels and Tyres		Nose Landing Gear: 5.00-5″ Main Landing Gear: 4.00-5″
		For approved tyres and ratings, see A

22. Serial Numbers Eligible

For approved tyres and ratings, see AMM s/n BCV.21007 and subsequent



# D.IV. Operating and Service Instructions

1. Flight Manual	BCV-00-38-05 "BK 160TR Aircraft Flight Manual", rev. 0 or later approved revision
2. Maintenance Manual	BCV-00-39-01 "BK 160TR Aircraft Maintenance Manual", rev.0 or later approved revision
3. Structural Repair Manual	N/A
<ol> <li>Weight and Balance Manual</li> <li>Illustrated Parts Catalogue</li> </ol>	included in the AFM BCV-00-39-04 "BK 160TR Illustrated Parts Catalogue", rev. 0 or later approved revision



# D.V. Notes

- 1) TCDS Annex 1 contains public non-proprietary data in Equivalent Safety Findings that are part of the applicable Certification Basis as recorded in this TCDS.
- 2) TCDS Annex 2 contains reference to AMC material used by the TC holder in case that CS-23 amendment 5, or later, is applicable.



### **SECTION ADMINISTRATIVE**

# I. Acronyms & Abbreviations

### Acronyms

AFM – Aircraft Flight Manual

AMM – Aircraft Maintenance Manual

CRI – Certification Review Item

CS – Certification Specification

VLA – Very Light Aircraft

EASA – European Aviation Safety Agency

ESF – Equivalent Safety Finding

ICAO – International Civil Aviation Organization

IPC – Illustrated Part Catalogue

KCAS – Knots Calibrated Air Speed

KOEL – Kind of Operations Equipment List

MAC – Mean Aerodynamic Chord

MLW – Maximum Landing Weight

MTOW – Maximum Take-Off Weight

MZFW – Maximum Zero Fuel Weight

TC – Type Certificate

TCDS – Type Certificate Data Sheet

VFR – Visual Flight Rules

N-VFR – Night - Visual Flight Rules

Ft - feet



# II. Type Certificate Holder Record

TC Holder	Period
Blackshape S.p.A.	Effective
SS 16 KM 841+900 Z.I. 70043 Monopoli (BA)	
Italy	



# III. Change Record

Issue	Date	Changes	TC Issue No. & Date
Issue 01	03 April 2017	Initial Issue	Initial Issue,
			03 April 2017
Issue 02	17 Dec 2018	Change to maximum operating altitude, definition of	Initial Issue,
		eligible serial numbers and elevator deflections.	03 April 2017
Issue 03	02 Oct. 2019	Added Variant BK160 Gabrièl incorporating major	Initial Issue,
		changes: MOD-BCV-17-020, MOD-BCV-17-021 and MOD-	03 April 2017
		BCV-17-026	
Issue 04	12 May 2020	Variant BK 160 transformed to a new separate model BK	Issue 01,
		160 – document general restructuration	12 May 2020
Issue 05	18 March 2022	Administrative corrections in sections A.IV. and B.IV.	Issue 01,
		performed based on the DOA audit.	12 May 2020
Issue 06	07 June 2022	Added Model BK 160-200 incorporating major changes:	Issue 02,
		MOD-BCV-19-004, MOD-BCV-21-008 and MOD-BCV-20-010	07 June 2022
Issue 07	22 June 2022	Added Model BK 160TR	Issue 03,
			14 June 2022
Issue 08	13 December	MOD-BCV-22-013 (BK 160-200; BK 160TR)	Issue 03,
	2023		14 June 2022
Issue 09	06 February	Administrative corrections in Section C.II and D.II	Issue 03,
	2025	Updated Model BK 160TR Certification Basis to	14 June 2022
		incorporate change MOD-BCV-21-027	
		Added TCDS Annex 1 and 2.	

-END-

