

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



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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.A Issue: 09	A.607	BS 115		Da	te: 06 February 2025	
A.III.	Technical Char	acteristics and (Operational Lim	<u>itations</u>			
1. Тур	e Design Definitio	on	Document No. Configuration I	"TDDCR-B Report, late	S115-001" Type est applicable is	e Design Data ssue.	
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. Equi	pment		Equipment list Flight Manual″	as reporte Section 6	d in BCV-00-38	-00 "BS115 Airplane	
4. Dim	ensions						
			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. Engi	ne						
	5.1. Model		Lycoming IO-32	20-D1B			
	5.2 Type Certifi	cate	TCDS no. US 1E	12			
	5.3 Limitations		Max Take-off P	ower:	160 shp		
			Max Continuou Other limitatio Flight Manual"	us Power: ns are liste Section 2	160 shp ed in BCV-00-38	-00 "BS115 Airplane	
6. Load	d factors						
			Flap UP	Flap DOW	/N		
		Max positive	+5 -2.5	+2.0 0			
				-			
7. Prop	beller						
	7.1 Wodel		Hartzell Raptor series				
			Governor: S-1-78				
			Blades: 76C03-7				
	7.2 Type Certifi	cate	TCDS No. IM.P.137				
	7.3 Number of	blades	es 3				
	7.4 Diameter		1.75 m (69 in)				
	7.5 Sense of Ro	tation	Clockwise (pilo	ťs view)			

	TCDS No.: EASA.A.607 Issue: 09	BS 115	Date: 06 February 2025		
8 Flu	ids				
01110	8.1 Fuel	Refer to AFM. Sec	tion 2 for engine fuels		
	8.2 Oil	Refer to AFM. Sec	tion 2 for engine oil		
	8.3 Coolant	N/A			
9. Flu	id 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 A	ir Speeds				
10.71		Never Exceed Spe	ed V _{NF} : 172 KCAS		
		Max. structural cr	uising speed V_{NO} : 150 KCAS		
		Operating Manoeuvring speed V_A : 123 KCAS			
		Max. speed with la	anding gear extended: VLE: 90 KCAS		
		Max. speed for landing gear operation V_{LO} : 90 KCAS			
		Max. speed with f	laps fully deployed V_{FE} : 90 KCAS		
11. N	laximum Operating Altitude	11500 ft – Density	Altitude		
12. A	pproved Operations Capability	Day VFR			
		Flights in known io	ing conditions is prohibited		
13. N	laximum Masses				
		Max. Take-off:	750 kg (1653 lbs)		
		Max. Landing	750 kg (1653 lbs)		
14. C	entre of Gravity Range	23% MAC 31	% MAC at 750 Kg		
		16.5% MAC 31	% MAC at 712 Kg		
		Mean Aerodynam	ic Chord: 1360.26 mm		
15. D	atum	800 mm aft of cor	nposite bulkhead.		
		165 mm up from airplane 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



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SECTION B: BK 160

B.I. General

1. Type/ Model / Variant	
1.1 Туре	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 a	chnical Characteristics and Operational Limitations			
1. Тур	e Design Definition	Document N Configuration	No. "TDDCR- on Report, la	-BS115-004" T atest applicab	ype Design Data le 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 Flight Manu	list as repor al Section 6	ted in BCV-00	-38-00 BS115 Airplane
4. Dim	ensions				
		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	5 1E12		
	5.3 Limitations	Max Take-o	ff Power:	160 s	hp
		Max Contin	uous Power	: 160 s	hp
		Other limita Flight Manu	ations are lis Ial" Section	ted in BCV-00 2	-38-00 "BS115 Airplane
6. Loa	d factors				
		Flap UP	Flap DC	WN	
	Max positive	+4.4	+2.0		
	Max negative	-2.0	0		
7. Prop	peller				
	7.1 Model	Hartzell Rap	otor series		
		Hub: 3C1-L6	575A1		
		Governor: S	-1-78		
		Blades: 76C03-7			
	7.2 Type Certificate	TCDS No. IN	1.P.137		
	7.3 Number of blades	3			
	7.4 Diameter	1.75 m (69 i	in)		
7.5 Sense of Rotation		Clockwise (oilot's view)		
8. Flui	ds				
	8.1 Fuel	Refer to AFI	M, Section 2	for engine fu	els
	8.2 Oil	Refer to AFI	M, Section 2	for engine oi	I
	8.3 Coolant	N/A			



	TCDS No.: EASA.A.607 Issue: 09	BS 115	Date: 06 February 2025		
9. Flui	d capacities				
	9.1 Fuel	2 tanks, 64 litre litres (30 USG).	s (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. Ai	r Speeds	Never Exceed S	peed V _{NE} : 172 KCAS		
		Max. structural	cruising speed V_{NO} : 148 KCAS		
		Operating Man	oeuvring speed V _A : 122 KCAS		
		Max. speed wit	h landing gear extended: V _{LE} : 90 KCAS		
		Max. speed for	landing gear operation V_{LO} : 90 KCAS		
		Max. speed wit	h flaps fully deployed V_{FE} : 90 KCAS		
11. M	aximum Operating Altitude	11500 ft – Dens	ity Altitude		
12. Ap	proved Operations Capability	Day/Night VFR			
		Flights in know	n icing conditions is prohibited		
13. M	aximum Masses				
		Max. Take-off:	850 kg (1874 lbs)		
		Max. Landing	850 kg (1874 lbs)		
14. Ce	entre of Gravity Range	23% MAC	31% MAC at 850 Kg		
		19% MAC	31% MAC at 765 Kg		
		Mean Aerodyna	amic Chord: 1360.26 mm		
15. Da	atum	800 mm aft of composite 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 com	partment surface
18. Minimum Flight Crew		1 pilot seated	d in the front seat
19. Maximum Passenger Seating Capaci	ty	1	
20. Baggage/ Cargo Compartments		33 kg capacit	y, 2.5 m aft of datum
21. Wheels and Tyres		Nose Landing Main Landing	g Gear: 5.00-5″ g Gear: 4.00-5″
		For approved	tyres and ratings, see

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 Dat	e N/A
7. EASA Type Certification Date	30 May 2022
C.II. EASA Certification Basis	
1. Reference Date for determining the	25 August 2021 (refer to C.V. Note 1)
2 Airworthiness Requirements	CS-VLA Amdt 1 5 May 2009
	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



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	TCDS No.: EASA.A.607 Issue: 09	BS 115			Date: 06 February 2025
C.III.	Technical Characteristics a	and Operational L	<u>imitations</u>		
1. Тур	e Design Definition	Document N Configuratio	No. "TDDCR on Report, la	-BK160200-00 atest applicab	11″ Type Design Data le issue.
2. Des	cription	Single-engin configuratio variable pito composite r	ne low wing on. Equipped ch constant material car	monoplane, t d with retracta speed propell bon fibre rein	andem two-seater able landing gear and er. Airframe made by forced epoxy (CFRP).
3. Equ	ipment	Equipment l Manual Sect	list as repor tion 6	ted in BCV-00	-38-06 Airplane Flight
4. Dim	ensions				
		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 IC)-320-D1B		
	5.2 Type Certificate	TCDS no. US	5 1E12		
	5.3 Limitations	Max Take-o	ff Power:	160 s	hp
		Max Contin	uous Power	: 160 s	hp
		Other limita Manual" Se	itions are lis ction 2	ited in BCV-00	-38-06 "Aircraft Flight
6. Loa	d factors				
		Flap UP	Flap DC	OWN	
	Max positive	+4.4	+2.0		
	Max negative	-2.0	0		
7. Proj	peller				
	7.1 Model	Hartzell Raptor series			
		Hub: 3C1-L675A1			
		Governor: S-1-78			
		Blades: 76C	03-7		
	7.2 Type Certificate	TCDS No. IN	1.P.137		
	7.3 Number of blades	3			
	7.4 Diameter	1.75 m (69 i	n)		
	7.5 Sense of Rotation	Clockwise (p	oilot's view)		
8. Flui	ds				
	8.1 Fuel	Refer to AF	M, Section 2	2 for engine fu	els
	8.2 Oil	Refer to AFI	M, Section 2	for engine oi	I
	8.3 Coolant	N/A			



	TCDS No.: EASA.A.607 Issue: 09	BS 115	Date: 06 February 2025	
9. Flui	d capacities			
	9.1 Fuel	2 tanks, 64 litre litres (30 USG).	s (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. Ai	r Speeds	Never Exceed S	peed V _{NE} : 172 KCAS	
		Max. structural	cruising speed V_{NO} : 148 KCAS	
		Operating Man	peuvring speed V_A : 122 KCAS	
		Max. speed wit	h landing gear extended: V _{LE} : 110 KCAS	
		Max. speed for	landing gear operation V_{LO} : 110 KCAS	
		Max. speed wit	h flaps fully deployed V_{FE} : 100 KCAS	
11. M	aximum Operating Altitude	11500 ft – Dens	ity Altitude	
12. Ap	proved Operations Capability	Day/Night VFR		
		Flights in knowr	n icing conditions is prohibited	
13. M	aximum Masses			
		Max. Take-off:	850 kg (1874 lbs)	
		Max. Landing	850 kg (1874 lbs)	
14. Ce	entre of Gravity Range	23% MAC	28.5% MAC at 850 Kg	
		19% MAC	28.5% MAC at 765 Kg	
		Mean Aerodyna	amic Chord: 1360.26 mm	
15. Da	atum	800 mm aft of c	omposite 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 com	partment surface
18. Minimum Flight Crew		1 pilot seated	d in the front seat
19. Maximum Passenger Seating Capacit	ty	1	
20. Baggage/ Cargo Compartments		33 kg capacit	y, 2.5 m aft of datum
21. Wheels and Tyres		Nose Landing Main Landing	g Gear: 5.00-5" g Gear: 4.00-5"
		For approved	tyres and ratings, see AMM

s/n BCV.21009 and subsequent

22. Serial Numbers Eligible

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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.



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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
	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
	SC-FLA 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]



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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		Ľ	Date: 06 February 2025
D.III.	Technical Characteristics and	Operational Lim	<u>itations</u>		
1. Туре	e Design Definition	Document No. Configuration	"TDDCR- Report, la	BK160-TR-001 test applicable	L″ Type Design Data issue.
2. Desc	cription	Single-engine l configuration. variable pitch composite mat	ow wing r Equipped constant s terial carb	monoplane, tar with retractab peed propeller on fibre reinfo	ndem two-seater de landing gear and r. Airframe made by rced epoxy (CFRP).
3. Equi	pment	Equipment list Manual Sectio	as report n 6	ed in BCV-00-3	8-05 Airplane Flight
4. Dim	ensions				
		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. Engi	ne				
	5.1. Model	Lycoming IO-3	20-D1B		
	5.2 Type Certificate	TCDS no. US 1	E12		
	5.3 Limitations	Max Take-off	Power:	160 sh	р
		Max Continuo	us Power:	160 sh	р
		Other limitatic Manual" Section	ons are list on 2	ed in BCV-00-3	38-05 "Aircraft Flight
6. Load	d factors				
		Flap UP	Flap DO	WN	
	Max positive	+4.4	+2.0		
	Max negative	-2.0	0		
7. Prop	peller				
	7.1 Model	Hartzell Raptor series			
		Hub: 3C1-L675A1			
		Governor: S-1-78			
		Blades: 76C03	-7		
	7.2 Type Certificate	TCDS No. IM.P	.137		
	7.3 Number of blades	3			
	7.4 Diameter	1.75 m (69 in)			
	7.5 Sense of Rotation	Clockwise (pilo	ot's view)		
8. Fluic	ds				
	8.1 Fuel	Refer to AFM,	Section 2	for engine fue	ls
	8.2 Oil	Refer to AFM,	Section 2	for engine oil	
	8.3 Coolant	N/A			



	TCDS No.: EASA.A.607 Issue: 09	BS 115	Date: 06 February 2025	
9. Fluic	capacities			
	9.1 Fuel	2 tanks, 64 litre litres (30 USG).	es (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 S	Speed V _{NE} : 172 KCAS	
		Max. structura	l cruising speed V_{NO} : 148 KCAS	
		Operating Mar	noeuvring speed V_A : 122 KCAS	
		Max. speed wit	th landing gear extended: V_{LE} : 110 KCAS	
		Max. speed for	landing gear operation V_{LO} : 110 KCAS	
		Max. speed wit	th flaps fully deployed V _{FE} : 100 KCAS	
11. Ma	ximum Operating Altitude	11500 ft – Den	sity Altitude	
12. Apj	proved Operations Capability	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)	
14. Cer	ntre of Gravity Range	23% MAC	28.5% MAC at 850 Kg	
		19% MAC	28.5% MAC at 800 Kg	
		Mean Aerodyn	amic Chord: 1360.26 mm	
15. Dat	tum	800 mm aft of	composite 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 com	npartment surface
18. Minimum Flight Crew		1 pilot seated	d in the front seat
19. Maximum Passenger Seating Capaci	ty	1	
20. Baggage/ Cargo Compartments		33 kg capacit	y, 2.5 m aft of datum
21. Wheels and Tyres		Nose Landing Main Landing	g Gear: 5.00-5″ g Gear: 4.00-5″
		For approved	tyres and ratings see

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
 Weight and Balance Manual Illustrated Parts Catalogue 	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-	07 June 2022
		010	
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.	

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