

TYPE-CERTIFICATE

DATA SHEET

No. EASA.A.026

for

L-410

Type Certificate Holder:

Aircraft Industries, a.s.

Na Záhonech 1177 686 04 Kunovice CZECH REPUBLIC

For models: L-410 M Turbolet L-410 UVP - Turbolet L-410 UVP-E L 410 UVP-E9 L 410 UVP-LW L 410 UVP-E-LW L 410 UVP-E20 L 410 UVP-E20 CARGO L-420 L 410 NG



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CONTENTS

SECTION A: GENERAL, L-410 M Turbolet Type Design

- A I. General
- A II. Certification Basis
- A III. Technical Characteristics and Operating Limitations
- A IV. Operating and Service Instructions
- AV. Notes

SECTION B: GENERAL. L-410 UVP - Turbolet Type Design

- B I. General
- B II. Certification Basis
- B III. Technical Characteristics and Operating Limitations
- B IV. Operating and Service Instructions
- BV. Notes

SECTION C: GENERAL, L-410 UVP-E Type Design

- CI. General
- CII. Certification Basis
- C III. Technical Characteristics and Operating Limitations
- C IV. Operating and Service Instructions
- C V. Operational Suitability Data
- C.VI. Notes

SECTION D: GENERAL, L 410 UVP-E9 Type Design

- DI. General
- D II. Certification Basis
- D III. Technical Characteristics and Operating Limitations
- D IV. Operating and Service Instructions
- D V. Operational Suitability Data
- D VI. Notes

SECTION E: GENERAL, L 410 UVP-E20 Type Design

- E I. General
- E II. Certification Basis
- E III. Technical Characteristics and Operating Limitations
- E IV. Operating and Service Instructions
- E V. Operational Suitability Data
- E VI. Notes

SECTION F: GENERAL, L-420 Type Design

- FI. General
- F II. Certification Basis
- F III. Technical Characteristics and Operating Limitations
- F IV. Operating and Service Instructions
- FV. Notes

SECTION G: GENERAL, L 410 NG Type Design

- G I. General
- G II. Certification Basis
- G III. Technical Characteristics and Operating Limitations
- G IV. Operating and Service Instructions
- G V. Operational Suitability Data
- G VI. Notes



ADMINISTRATIVE SECTION

- I.
- Acronyms Type Certificate Holder Record II.
- III. **Change Record**



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SECTION A: L-410 M Turbolet Type Design

<u>A I. General</u>

- 1. Data Sheet No: EASA.A.026 2. Type /Model / Variant L-410 Type: L-410 M Turbolet Model: L-410 MA (see note 4)L-410 MU (see note 4) Variant: 3. Airworthiness Category: Commuter 4. Type Certificate Holder: Aircraft Industries, a.s.Na Záhonech 1177, 686 04 Kunovice CZECH REPUBLIC 5. Manufacturer: LET, n.p. 686 04 Kunovice 1177CZECHOSLOVAKIA 6. National Certification Date: August 28, 1975 7. CAA Application Date: 8. CAA Recommendation Date: 9. EASA Type Certification Date: 28 March, 2007 A II. Certification Basis 1. Reference Date for determining the applicable requirements: 2. CAA CZ Type Certificate Data Sheet No 71-04 3. CAA CZ Certification Basis: 4. Airworthiness Requirements: British Civil Airworthiness Requirements, BCAR Section K, Issue 5, 16.10.1972, British Civil Airworthiness Requirements, BCAR Section R, Issue 4, 10.04.1974 British Civil Airworthiness Requirements, BCAR Section J, Issue 3, 15.09.1966 5. Requirements elected to comply None
- 6. EASA Special Conditions: None7. EASA Exemptions: Refer to A.V Notes, paragraph 3



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lss	sue 34, 14 Octobe	er 2022		· ·
8.	EASA Equivalen	t Safety Findings:	appropriate measures a minimum, the	ons specified in item 3 above res were accepted showing, as same level of safety. These ts of the certification data.
9.	EASA Environme	ental Standards:	L16/I, Part II, Chap	ter 5
<u>A I</u>	II. Technical Cl	naracteristics and Operati	onal Limitations	
1.	Type Design Def	inition:	Specification sheet Turbolet	B 001 001 N - L-410 M
2.	Description:		Powered by two turl	pper-wing, all-metal design. boprop engines. Control system pilots. Landing gear consists of ling gear.
3.	Equipment:		The list of approved the Maintenance M	equipment is shown in anual.
4.	Dimensions:			
		Wingspan	17.478 m	
		Length	13.605 m	
		Height	5.646 m	
		Wing Area	32.865 m ²	
5.	Engines:		2	
	5.1. Model:		WALTER M 601 A	
	5.1.1.Type (Certificate:	75 - 03, CAA CZ iss	sued
	5.1.2.Engin	e Limits		
		Maximum take-off for 5 minut	es power rating	
		Gas generator speed	se perier emig	101.5 %
		Propeller speed		2080 rpm
		Maximum torque		100 %
		Equivalent power		544 kW
		Intermediate contingency pov	wer rating	
		Gas generator speed	Not roung	100.5 %
		Propeller speed		1950 - 2080 rpm
		Maximum torque		100 %
		Equivalent power		507.5 kW
		Maximum continuous power Gas generator speed	rating	99 %
		Propeller speed		1800 - 2080 rpm
		Maximum torque Equivalent power		100 % 478 kW
				470 800
6.	Propellers:		2	
	6.1. Model:		V508	
	6.1.1.Type (• •	cing 91-01, CAA CZ issued)
		er of blades:	3	
		e of Rotation:	Clockwise in view o	f flight direction
	6.1.4.Diame	eter:	2500 mm	

L-410

Page 6 of 57



TCDS EASA.A.026

7. Fluids:					
7.1. Fuel	T1 according to ST SEV 5024 TS 1 according to ST SEV 5024 RT according to ST SEV 5024 PL 6 according to PND 25005 PL 7 according to PND 25005 JET A according to ASTMD 15 JET A-1 according to ASTMD PSM 2 according to PN-86/C	24-85, or G 4-85, or GO 5-76 5-92 655-89 1655-89, o	OST 1022 ST 10227	27-86, or -86, or Č	
7.2. Oil	Aero Shell Turbo Oil 500 Aero Shell Turbo Oil 555 Aero Shell Turbo Oil 560 Mobil Jet 0 II B3V (Russian production) Exon TO 2380 Castrol 599				
8. Fluid capacities	:				
8.1. Fuel:	Standard Tank	Total: Usable:		1020 986	kg kg
8.2. Oil:	Engine	Maximum Minimum:		11 5,5	Litre Litre
9. Air Speeds:					
	Never exceeding speed Normal operating limit speed Design manoeuvering speed Wing - flaps extended speed Landing gear extended speed Maximum speed at gusts of 15 Minimum control speed, take-or		VNE VNO VA VFE VLE VMCA	405 km 350 km 255 km 230 km 255 km 350 km 153 km	I/h IAS I/h IAS I/h IAS I/h IAS I/h IAS
10. Maximum Operating Altitude 60					
11. All-weather Capability:		 The aircraft is approved for Day and Night VFR and IFR flights. Flights in icing conditions, with leading edge deicing system continuously ON, are permitted. 			
12. Maximum Weig	ght:				
	Maximum take-off weight Maximum landing weight Maximum zero-fuel weight			5700 k 5500 k 5290 k	g
13. Centre of Gravi	ity Range:	Forward c Aft c.g. lim Aft c.g. lim	nit	17 % N 30 % N	
		and MU va	ariants	28.5 %	MAC
14. Datum:					g point No. 2 on the ft of the fuselage nose
15. (reserved)					
16. Levelling Mean	s:	defined by	y levelling	g points	e levelling plane is No. 3, 5, 6, in lateral No. 19L and 19P.
		•	-		

17. Minimum Flight Crew:

defined by levelling points No. 3, 5, 6, in lateral direction by levelling points No. 19L and 19P. 2



TCDS EASA.A.026 Issue 34, 14 October 2022	L	-410	Page 8 of 57
18. Number of seats:		17 pax	
19. (reserved)			
20. Baggage / Cargo Compa	artments	Maximum baggage load	
21. Wheels and Tyres		 front baggage compartment rear baggage compartment Nose wheel K21-6000-7 with tyre 9.00-6(550 x 225) M4 Main wheel K20-6100-7 with tyre12.50-10(720 x 310) M4 	140 kg 150 kg
A IV. Operating and Serv	ice Instructions		
Flight Manual (Czech versio	ns)		
Do-L410.1018.2	• •	letoun L - 410 M Turbolet	
Do-L410.1018.3 Do-L410.1018.6 Do-L410.1018.7 Do-L410.1018.5	Letová příručka pro	letoun L - 410 M Turbolet letoun L - 410 MA Turbolet letoun L - 410 MA Turbolet letoun L - 410 MU	
Instructions for continued air	worthiness (Czech ve	ersions)	
1. Maintenance Schedule:			
Do-L410.1052.1 Do-L410.1052.3	Předpis pro údržbu Předpis pro údržbu provozu bez genera	letounu L 410 MA (Pro letouny v expe	erimentálním
Do-L410.1052.4	Předpis pro údržbu		
2. Maintenance Manual:			
Do-L410.1037.1 Do-L410.1039.1	Technická příručka Technická příručka	letounu L - 410 M Turbolet letounu L 410 MA	
3. Album of Production, Op	eration and Repair To	lerances	
Do-L410.2030.0		přípustných provozních tolerancí letou L 410 MA TURBOLET	ınůL410 A,
4. Aging aircraft program			
English version: Do-L410-1229.2	aeroplane,L 410 UV	am for the L 410 M aeroplane, L 410 L /P-E aeroplane, L 410 UVP-E9 aeropl oplane, L-420 aeroplane	
Czech version: Do-L410-1229.0	•	u letounů starších 20 let pro typy L 41 IVP-E, L 410 UVP-E9, L 410 UVP-E20	
5. Structural Repair Manua			
Do-L410-2021.2	Příručka pro opravu	ı draku letounu L 410	
Others Manuals (Czech vers	sions):		
1. Wiring Manual			
Do-L410.1061.1 Do-L410.1069.1 Do-L410.1068.1	Album elektroscher	nat letounu L 410 M nat letounu L - 410 MA nat letounu L 410 MU	
2. Illustrated Parts Catalogu	е		
Do-L410.1043.1	Kusovník letounu L	410 A/ L 410 AS Turbolet	
TE 0507 000 00 00 0 -			

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Eligible Serial Numbers

730206, 730207, 750401 through 750405, 750410, 750501 through 750515, 760601, 760602, 770603, 770605, 770606, 770609, 770610, 770701 through 770715, 770801 through 770815, 780901 through 780910, 781001 through 781020, 781101 through 781120.

A V. Notes

- 1. This model was originally approved by CAA Czech under Type Certificate No. 75-04 on August 28, 1975.
- List of BCAR requirements for which exemptions were approved: 2.
 - Final take-off climb K2-4, 2.4 K2-9, 2.1.3(a) Ability to trim K2-10, 5.1 Static lateral stability K4-3, 6.1.2 Use of flame resistant materials Indication of trim tab position K4-8, 2.2.3(d) K-1, 8.5 Assembly of non-return valves in K5-4, 1.1 to 4.2.5 Powerplant installation K5-5, 2.2.2 De-icing and anti-icing precautions K5-5, 2.2.3 Continuous and heavy icing K5-8, 1.1, 7.2, 8, 9.1, 9.2, 11 Fire precautions K6-1, 2.1 Equipment installation K6-1, 2.2 Equipment approval R1-1, 3.2 MESIT equipment stability R1-1, 4.1 Flammability of radio equipment components
 - J2-3. 4.3.3 Types of circuit breakers used
 - J3-2, 5.1 Types of cables
- 3. The permission for continuous operation of those aircraft within EU member states after 1 July 2010will be granted based on condition that essential safety modifications are carried out on the aircraft in accordance with the Service Bulletin L410M/095b, as mandated by EASA Airworthiness Directive 2008-0102

Aircraft that comply with Part A and Part B of Service Bulletin L410M/095b will be without anyadditional operation limitations.

Aircraft that only comply with Part B of Service Bulletin L410M/095b will be restricted to transport of maximum 9 passengers or to Para trooping purposes.

4. Duly performance of the Service Bulletin L410M/246a (recorded to the Aircraft Log Book) converts theL-410 M model to the L-410 MA variant.

Duly performance of the Service Bulletin L410MU/291a (recorded to the Aircraft Log Book) of the L-410M and L-410 MA to the L-410 MU variant.



SECTION B: L-410 UVP – Turbolet Type Design

BI. General

- 1. Data Sheet No: EASA.A.026
- 2. Type / Model / Variant

- Type:	L-410
- Models:	L-410 UVP - Turbolet L 410 UVP-LW (see note no.8)
- Variant	
	L 410 FG (see note no.9)
3. Airworthiness Category:	Commuter
4. Type Certificate Holder:	Aircraft Industries, a.s.Na Záhonech 1177, 686 04 Kunovice CZECH REPUBLIC
5. Manufacturer:	LET, n.p. 686 04 Kunovice 1177 CZECHOSLOVAKIA
6. National Certification Date:	July 10, 1979
7. CAA Application Date:	1974
8. CAA Recommendation Date:	
9. EASA Type Certification Date:	28 March, 2007
BII. Certification Basis	
1. Reference Date for determining the applicable requirements:	
2. CAA CZ Type Certificate Data Sheet No	71-04
3. CAA CZ Certification Basis:	
4. Airworthiness Requirements:	 NLGS-2 Regulations, Issue 2, 1974, Chapters 2, 3, 4, 5 and 7, including Changes 1 to 6 L8/C dated 29.03.1973 L8/R dated 10.04.1974 L8/J dated 01.01.1974 L/16 dated 05.01.1972
5. Requirements elected to comply	None
6. EASA Special Conditions:	None
7. EASA Exemptions:	Refer to B V. Notes, paragraph 3



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8. EASA Equivaler	nt Safety Findings:	appropriate measure a minimum, the s	ons specified in item 3 above es were accepted showing, as ame level of safety. These s of the certification data.
9. EASA Environm	nental Standards:	L16/I, Part II, Chapte	er 5
<u>B III. Technical C</u>	haracteristics and Operat	ional Limitations	
1. Type Design De	efinition:	Specification shee Turbolet	t B 001 101 N – L 410 UVP –
2. Description:		Powered by two turb	oper-wing, all-metal design. oprop engines. Control system pilots. Landing gear consists of ing gear.
3. Equipment:		The list of approved the Maintenance Ma	equipment is shown in anual.
4. Dimensions:			
	Wingspan	19.479 m	
	Length	14.467 m	
	Height	5.829 m	
	Wing Area	35.18 m ²	
5. Engines:		2	
5.1. Model:		WALTER M - 601 B	
5.1.1.Type	Certificate:	75-03, CAA CZ issue	ed
5.1.2.Engir	ne Limits		
	Maximum continuous power	rating:	
	Maximum power	5	515 kW
	Max. gas generator speed		99 %
	Max. propeller speed Max. ITT		2080 rpm 690°C
	Max. IT I		690 C
	Take-off power rating:		
	Maximum power		515 kW
	Max. gas generator speed		101.5 %
	Max. propeller speed		2080 rpm
	Max. ITT		735 °C
	Take-off power rating with wa	ater injection:	
	Maximum power		515 kW
	Max. gas generator speed		101.5 %
	Max. propeller speed		2080 rpm 735°C
	Max. ITT		735 C
	Contingency power rating:		
	Maximum power		559 kW
	Max. gas generator speed		104 %
	Max. propeller speed Max. ITT		2080 rpm 780° C
	IVIAA. I I I		
		or	
5.2. Model:		WALTER M-601D	
5.2.1.Type 5.2.2.Engir	Certificate: ne Limits	EASA.E.070 (replac	ing 90-04, CAA CZ issued)



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TCDS EASA.A.026

Issue 34, 14 October 2022

Standard L 410 UVP - Turbolet aircraft:

	Standard L 410 UVP - Turbol	let aircraft:	
	Maximum continuous power n Maximum power Max. gas generator speed Max. propeller speed Max. ITT	rating:	515 kW 99 % 2080 rpm 690°C
	Take-off power rating: Maximum power Max. gas generator speed Max. propeller speed Max. ITT		515 kW 101.5 % 2080 rpm 735°C
	Take-off power rating with wa Maximum power Max. gas generator speed Max. propeller speed Max. ITT	ter injection:	515 kW 101.5 % 2080 rpm 735 °C
	L 410 UVP - Turbolet aircraft performance - maximum take		
	Maximum continuous power Maximum power Max. gas generator speed Max. propeller speed Max. ITT	rating:	515 kW 99 % 2080 rpm 690°C
	Take-off power rating: Maximum power Max. gas generator speed Max. propeller speed Max. ITT		540 kW 101.5 % 2080 rpm 735°C
	Take-off power rating with wa	ter injection:	
	Maximum power Max. gas generator speed Max. propeller speed Max. ITT		540 kW 101.5 % 2080 rpm 735 °C
6. Propellers:		2	
6.1. Model:		V 508B	
6.1.1.Type	Certificate:	EASA.P.028 (repla	cing 91-01, CAA CZ issued)
	per of blades:	3	
	e of Rotation:	Clockwise in view of	f flight direction
6.1.4.Diam	eter:	2500 mm or	
6.2. Model:		V 508D	
6.2.1.Type	Certificate:		cing 91-01, CAA CZ issued)
• •	per of blades:	3	·
	e of Rotation:	Clockwise in view of	-
6.2.4.Diam	eter:	2500 mm maximum	n, 2498 mm minimum



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7.	Fluids:					
	7.1. Fuel	T1 according to ST SEV 5024 TS 1 according to ST SEV 502 RT according to ST SEV 502 PL 6 according to PND 25005 PL 7 according to PND 25005 JET A according to ASTMD 16 JET A-1 according to ASTMD PSM 2 according to PN-86/C-	24-85, or GO -85, or GOS -76 -92 555-89 1655-89, or I	ST 1022 ⁻ T 10227-	7-86, or Č 86, or ČS	
	7.2. Oil	Aero Shell Turbo Oil 500 Aero Shell Turbo Oil 555 Aero Shell Turbo Oil 560 Mobil Jet 0 II B3V (Russian production) Exon TO 2380 Castrol 599				
8.	Fluid capacities:					
	8.1. Fuel:	Standard Tank	Total:		1000	kg
			Usable:		991	kg
	8.2. Oil:	Engine	Maximum:		11	Litre
			Minimum:		5,5	Litre
9.	Air Speeds:					
		Maximum speed		VD	410 km/	h IAS
		Maximum operating speed		VMO	355 km/	h IAS
		Maximum flaps extended spe	ed, landing		0051	
		configuration 35° Maximum flaps extended spee	h	VFE	205 km/	nias
		take-off configuration 15°	u,	VFE	250 km/	hIAS
		Maximum landing gear operation	ating speed		250 km/	-
		Maximum landing gear externation		VLE	250 km/	hIAS
		Maximum spoiler operating sp		VSP	000 1	
		 for MTOW 5700 kg (see note for MTOW 5800 kg (see note 			230 km/ 180 km/	
		Minimum control speed on gro		Vmin ER	125 km/	
		Minimum control speed, take-		Vmin EV	130 km/	
		Minimum control speed, ball			125 km/	-
		Minimum control speed, landir	ng	Vmin EP	120 km/	hIAS
10.	Maximum Opera	ating Altitude	4200 m			
11.	All-weather Cap	ability:		craft is ap R flights.	proved fo	or Day and Night VFR
12.	Maximum Weigl	ht:				
		Maximum take-off weight (VSP= 230 km/h) - (see note r	าо.5)		5700 kg	
		Maximum take-off weight	C)		5800 kg	
		(VSP= 180 km/h) - (see note Maximum take-off weight- (se Maximum take-off weight for L - (see note no.9)	e note no.8)		6000 kg 5700kg	
		Maximum landing weight Maximum zero-fuel weight			5500 kg 5300 kg	
13.	Centre of Gravit	y Range:	Forward c.g Aft c.g. limit		17% MA 28% MA	



TCDS EASA.A.026 Issue 34, 14 October 2022	L-410	Page 14 of 57
14. Datum:	Datum point is the levelling point fuselage, located 2.730 m aft of the tip.	
15. (reserved)		
16. Levelling Means:	In longitudinal direction, the levellin defined by levelling points No. 3, 5, direction by levelling points No. 19L	6, in lateral
17. Minimum Flight Crew:	2	
18. Number of seats:	15 pax	
19. (reserved)		
20. Baggage / Cargo Compartments	Maximum baggage load	
	 forward baggage compartment aft baggage compartment Cargo kit 	140 kg 150 kg 1000 kg
21. Wheels and Tyres	Nose wheel K21-6000-7 with tyre 9.00-6(550 x 225) M4 or 9.00-6/906 TO6 - Good Year	
	Main wheel K20-6100-7 with tyre 12.50-10(720 x 310) M4 or 29x11,0-10/11OTO1-1 Good Ye	ear

BIV. Operating and Service Instructions

Flight Manual

English version:	
Do-L410-1019.2	Flight Manual for the L 410 UVP Aeroplane
Czech version:	
Do-L410-1019.2	Letová příručka letounu L-410 UVP

Instructions for continued airworthiness:

1. Maintenance Schedule:

English version: For aircraft in overhaul-free maintenance system: Do-L410-1053.5 Maintenance Schedule for the L 410 UVP Aeroplane without overhaul.

For aircraft converted to overhaul-free maintenance system after 30.6.1998: Do-L410-1053.6 Maintenance Schedule for the L 410 UVP Aeroplanewithout overhaul

Czech version:

For aircraft in overhaul maintenance system: Do-L410-1053.2 Předpis pro údržbu letounu L-410 UVP

For aircraft in overhaul-free maintenance system: Do-L410-1053.4 Předpis pro údržbu letounu L-410 UVP bez GO

2. Maintenance Manual:

English version: Do-L410-1131.0	Maintenance Manual for the L 410 UVP Aeroplane
Czech version:	
Do-L410-1131.1	Provozně technická příručka pro letouny L-410 UVP



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3. Album of Production, Operation and Repair Tolerances

English version: Do-L410-2032.2	Album of Production, Operation and Repair Tolerancesof the L 410 UVP Aeroplane
Czech version: Do-L410-2032.0	Album výrobních, provozních a opravárenských tolerancí

4. Aging aircraft program

English version:	
Do-L410-1229.2	Aging aircraft program for the L 410 M aeroplane, L 410 UVP aeroplane,L 410 UVP-E aeroplane, L 410 UVP-E9 aeroplane, L 410 UVP-E20 aeroplane, L-420 aeroplane
Czech version:	
Do-L410-1229.0	Příručka pro kontrolu letounů starších 20 let pro typy L 410 M, L 410 UVP, L 410 UVP-E, L 410 UVP-E9, L 410 UVP-E20, L-420

5. Structural Repair Manual

English version:	
Do-L410-2021.2	Airframe Repair Manual L 410 UVP, L 410 UVP-E, L 410 UVP-E9,
	L 410 UVP-E20 Aeroplane
Czech version:	
Do-L410-2021.1	Příručka pro opravu draku letounu L-410 v polních podmínkách

6. Inspection Manual

English version:	
Do-L410-2012.2	Inspection Manual for the L 410 UVP Aeroplane
Czech version:	
Do-L410-2012.0	Příručka pro revizi letounů L-410 UVP

Others Manuals:

1. Wiring Manual

English version:	
Do-L410-1064.0	Wiring Manual for the L 410 UVP Aeroplane
Czech version:	
Do-L410-1064.1	Album elektroschemat pro letouny L-410 UVP

2. Illustrated Parts Catalogue

English version: Do-L410-2052.2	Illustrated Parts Catalogue for the L 410 UVP Aeroplane
Czech version: Do-L410-1044.1	Illustrated Parts Catalogue for the L-410 UVP

Eligible Serial Numbers

L410 UVP

770001, 770003, 770101, 770102, 770103, 790201 through 790220, 790301 through 790325, 800326 through 800330, 800401 through 800430, 800501 through 800530, 810601 through 810640, 810701 through 810732, 820733 through 820740, 820801 through 820840, 820901 through 820925, 830921, 830922, 830935 through 830940, 831001 through 831040, 831101 through 831125, 831135 through 831138, 841139, 841140, 841201 through 841240, 841301 through 841322, 841325, 841327 through 841333, 841338, 851335 through 851440, 851401 through 851427, 851431 through 851440, 851501 through 851520, 851527.

L 410 FG:

851521 through 851526, 851528

BV. Notes

- 1. This model was originally approved by CAA Czech under Type Certificate No. 79- 02 on July 10, 1979.
- 2. List of NLGS-2 requirements for which exemptions have been approved:
 - 3.1.5., 3.1.8., 3.18.2., 3.4.3.6, 3.4.3.7., 3.4.3.8, 3.4.3.9 3.4.3.10, 3.4.3.11, 3.6.3.9, 3.6.3.10,
 - 3.4.1.2, 3.4.1.11, 3.4.2.3, 3.6.1.1, 3.6.1.13, 3.6.3.5 Various conditions of runway surface
 - 3.4.3.5, 3.6.3.8, 3.7.4.5 Aeroplane movement at cross wind
 - 3.6.1.5, 3.6.3.1 Landing distance from a height of 15 m
 - 3.7.3 Wheel control forces
 - 3.7.3.7 Ability to trim the aeroplane longitudinally
 - 3.7.4.2 Spiral motion of the aeroplane
 - 3.7.5.5 Flight performance in icing conditions
 - 4.2.6, 3.1.2 Windshield strength
 - 5.4.6, 5.4.8 Brake control system
 - 5.1.11 Cabin noise
 - 5.4.17 Brake system warning indication
 - 5.5.5 Use of non-combustible hydraulic fluid
 - 5.5.9 Hydraulic system backup
 - 5.6.11, 5.11.12.5, 5.11.12.6, 7.5.3.1.2a, 7.5.1.2.2 Incombustibility of padding materials
 - 5.7.2 Heating in pilot and passenger compartments
 - 5.7.6 Air temperature in pilot compartment
 - 5.7.8 Air-conditioning system
 - 5.7.24 Automatic temperature control in pilot and passenger compartments
 - 5.7.28 Maximum temperature of mixed air
 - 5.7.32 Hot air temperature measurement
 - 5.7.33 Air-conditioning system mode indication
 - 5.9.6 Engine air intake icing indication
 - 5.10.1.1, 5.10.3, 8.4.1.2, 8.4.2.1, 8.4.3.3, 8.4.3.5 Cockpit noise recorder
 - 5.10.1.2 Flight data recorder
 - 5.10.2.2 Flight data recording duration
 - 5.11.8.2 Windows in emergency exits
 - 5.11.10.1 Minimum width of aisle
 - 5.12.6 Single-point fuelling
 - 6.6.4 Clearance between propeller blade tips and airframe parts
 - 7.1.1.11 Fuel transfer
 - 7.1.2.9 Continuous fuelling
 - 7.1.3.9 Impossibility of installation of non-return valves in reverse sense
 - 7.1.3.11 Fuel system markings
 - 7.17.1, 7.2.2.12, 7.2.6.1, 8.2.3.1, 7.1.7.2 Fuel flowmeter
 - 7.1.7.3, 7.1.8.8.1 Fuel quantity measurement accuracy
 - 7.1.8.8.3 Calibration of fuel level indicator
 - 7.2.1.5 Overfilling of engine with oil
 - 7.2.3.2 Oil system marking
 - 7.5.1.3 Fire resistance of cable bundles



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- 8.4.1.2, 8.4.3.3 Passenger address system
- 8.4.2.1, 8.4.3.6, 2.2.21, 2.2.2 Emergency locator transmitter
- 8.5.3.1, 8.5.3.2, 8.5.4.9 Power supply of category 1 and 2 electrical services
- 8.5.4.2, 8.5.8.1 Generator characteristics
- 8.5.4.4, 8.5.8.1, 8.1.2.9 Auxiliary power supply characteristics
- 8.5.5.5, 8.5.8.1 Standby power supply characteristics
- 8.5.5.11, 8.5.8.1 Characteristics of ground power supply connectors
- 8.5.6.1, 8.5.8.2, 8.1.2.9 Characteristics of electrical loads
- 8.5.7.1 Self-extinguishing properties of electrical conductors
- 8.5.7.2 Location, attachment, binding, and protection of cable bundles
- 8.5.7.7 Security of cable attachment in connectors
- 8.6.2.17 Flash frequency of anti-collision beacon
- 8.7.1.9 Cockpit control knobs
- 7.5.1.3.5 Fire warning sensors
- 7.5.1.4.6, 7.5.1.4.8, 7.5.1.2.7, 7.5.4.3.2 Automatic operation of fire extinguishing system
- 7.5.1.4.7 Inadvertent actuation of fire extinguishing system
- 7.5.1.4.11 Fire extinguishing system marking
- 7.5.2.1.7 Compressor air bleed
- 7.5.2.3.2 Fire extinguishing in engine inside cavities
- 7.5.3.2.3 Front baggage compartment fire warning system
- 8.1.2.14 Electromagnetic compatibility of equipment
- 8.2.2.1.1.b Limit angle of bank warning Autopilot
- 8.2.2.1.7, 8.2.2.1.9 Warning of pitch-angle, bank-angle and heading indication malfunction
- - 8.3.2.1, 8.3.3.4, 2.2.2, 2.2.21 ATC transponder
- 3. Previous maximum spoiler operating speed was provided by TC 79-02.
- 4. Previous maximum take-off weight was provided by TC 79-02
- 5. Realisation of Service Bulletin L-410 UVP/052a Bulletin provides increasing of MTOW to 5800 kg.
- 6. Service Bulletin L-410 UVP/052a Bulletin provides reducing of maximum spoiler operating speed to 180 km/h IAS.
- 7. Realisation of Service Bulletin L-410 UVP/084b Bulletin provides increasing of MTOW to 6000 kg.
- 8. Duly performance of the L410UVP/140b Service Bulletin (recorded to the Aircraft Log Book) converts the L-410 UVP Turbolet model to the L-410 UVP-LW model with lower MTOW 5700kg.
- 9. L 410 FG variant is designed for photogrammetric works only.
- 2. The permission for continuous operation of each listed S/N aircraft within EU member states after 1 July 2010 will be granted based on condition that essential safety modifications are carried out on the aircraft in accordance with the Service Bulletin L410 UVP/149b as mandated by EASA Airworthiness Directive No. 2008-0103.

Aircraft that comply with Part A and Part B of Service Bulletin L410 UVP/149b will be without any additional operation limitations.

Aircraft that only comply with Part B of Service Bulletin L410 UVP/149b will be restricted to transport of maximum 9 passengers or to Para trooping purposes.

SECTION C: L-410 UVP-E Type Design

CI. General

- 1. Data Sheet No: EASA.A.026
- 2. Type / Model / Variant

- Type: - Models: - Variant:	L-410 L-410 UVP-E L 410 UVP-E-LW (see note no.4)
3. Airworthiness Category:	Commuter
4. Type Certificate Holder:	Aircraft Industries, a.s.Na Záhonech 1177, 686 04 Kunovice CZECH REPUBLIC
5. Manufacturer:	LET, n.p. 686 04 Kunovice 1177 CZECHOSLOVAKIA / CZECH REPUBLIC
	LET, a.s. 686 04 Kunovice 1177 CZECHOSLOVAKIA / CZECH REPUBLIC
6. National Certification Date:	January 30, 1986
7. CAA Application Date:	1981
8. CAA Recommendation Date:	
9. EASA Type Certification Date:	28 March, 2007
CII. Certification Basis	
1. Reference Date for determining the applicable requirements:	
2. CAA CZ Type Certificate Data Sheet No	71-04
3. CAA CZ Certification Basis:	
4. Airworthiness Requirements:	 NLGS-2, Issue 2, 1974, Chapters 2, 3, 4, 5, 6 7, 8 including Changes 1 to 21, temporary changes applicable to airplanes having a weight of less than 10 000 kg, and select requirements of ENLGS. Refer to Supplement No. 3 for list of NLGS-2 requirements having been replaced by the requirements of ENLGS.
5. Requirements elected to comply	None

5. Requirements elected to comply



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TCDS EASA.A.026 Issue 34, 14 October 2022	L-410 Page 19 of 57
6. EASA Special Conditions:	None
7. EASA Exemptions:	Refer to C VI. Notes, paragraph 4
8. EASA Equivalent Safety Findings:	For those exemptions specified in item 3 above appropriate measures were accepted showing, as a minimum, the same level of safety. These measures form parts of the certification data.
9. EASA Environmental Standards:	L16/I, Part II, Chapter 5
 Operational Suitability Certification Basis: 	MMEL: CS-MMEL, Initial Issue

<u>CIII.</u> Technical Characteristics and Operational Limitations

		Specification Sheet B 500 200 N - L - 410 UVP - E		
5. Description:		Self-supporting, upper-wing, all-metal design. Powered by two turboprop engines. Control system is performed for two pilots. Landing gear consists of main and nose landing gear. L410 UVP-E with Ambulance Kit installation is determined for transport of 9 patients.		
6. Equipment:		The list of approved the Maintenance Maintenance	equipment is shown in anual.	
7. Dimensions:				
	Wingspan	19.980 m 19.479 m	with wing tips tanks without wing tip tanks	
	Length	14.467 m		
	Height	5.829 m		
	Wing Area	35.18 m ²	with wing tips tanks	
		34.86 m ²	without wing tip tanks	
8. Engines:		2		
8.1. Model:		WALTER M 601 E		
8.1.1.Type	Certificate:	EASA.E.070 (replacing 89-03, CAA CZ issued)		
8.1.2.Engir	ne Limits			
	Maximum continuous power r Maximum power Max. gas generator speed Max. propeller speed Max. ITT	ating:	560 kW 100.5 % 2080 rpm 760 °C	
	Take-off power rating: Maximum power Max. gas generator speed Max. propeller speed Max. ITT		560 kW 100 % 2080 rpm 735°C	



	Take-off power rating with wa Maximum power Max. gas generator speed Max. propeller speed Max. ITT	ater injection:	560 kW 100 % 2080 rpm 735 °C	
	Contingency power rating: Maximum power Max. gas generator speed Max. propeller speed Max. ITT		595 kW 102 % 2080 rpm 780 °C	
0.0 Madali			1	
8.2. Model:	pe Certificate:		WALTER M 601E-21 EASA.E.070 (replacing 89-03, CAA CZ issued)	
	gine Limits			
	Maximum continuous power Maximum power Max. gas generator speed Max. propeller speed Max. ITT	rating:	560 kW 100.5 % 2080 rpm 760°C	
	Take-off power rating: Maximum power Max. gas generator speed Max. propeller speed Max. ITT		560 kW 100 % 2080 rpm 735°C	
	Take-off power rating with wa Maximum power Max. gas generator speed Max. propeller speed Max. ITT	ater injection:	560 kW 100 % 2080 rpm 735°C	
	Contingency power rating: Maximum power Max. gas generator speed Max. propeller speed Max. ITT		595 kW 102 % 2080 rpm 780 °C	
9. Propellers:		2		
9.1. Model:		V510		
-	pe Certificate:	· ·	cing 89-04, CAA CZ issued)	
	mber of blades:	5	<i>.</i>	
9.1.3.Sense of Rotation: 9.1.4.Diameter:		Clockwise in view of flight direction		
9.1.4.Dia 10. Fluids:	ameter:	2300 mm		
10.1.	T1 according to ST SEV 502			
Fuel	TS 1 according to ST SEV 5024-85, or GOST 10227-86, or ČSN 656 520 RT according to ST SEV 5024-85, or GOST 10227-86, or ČSN 656 520 PL 6 according to PND 25005-76 PL 7 according to PND 25005-92 JET A according to ASTMD 1655-89 JET A-1 according to ASTMD 1655-89, or DERD 2494			

PSM 2 according to PN-86/C-96026



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10.2. Oil	Aero Shell Turbo Oil 500 Aero Shell Turbo Oil 555
0.1	Aero Shell Turbo Oil 555
	Mobil Jet 0 II
	B3V (Russian production)
	Exon TO 2380
	Castrol 599

11. Fluid capacities:

11.1.	Standard Tank	Total:	1000	kg
Fuel:		Usable:	991	kg
	Wing Tips Tank	Total:	314	kg
		Usable:	310	kg
11.2.	Engine	Maximum:	11	Litre
Oil:		Minimum:	5,5	Litre
12. Air Speeds:				
	NA : 00		0001	

Maximum 22 manoeuvring speed Maximum operating speed Maximum flaps extended speed,	VA Vmo	260 km/h IAS 350 km/h IAS
landing configuration 42° Maximum flaps extended speed,	VFE	220 km/h IAS
take-off configuration 18°	VFE	250 km/h IAS
Maximum landing gear operating speed	VLO	250 km/h IAS
Maximum landing gear extended speed	VLE	250 km/h IAS
Maximum spoiler operating speed	Vsp	190 km/h IAS
Minimum control speed on ground	$V_{\text{min ER}}$	130 km/h IAS
Minimum control speed, take-off	$V_{\text{min EV}}$	135 km/h IAS
Minimum control speed, balked landing	$V_{\text{min EK}}$	130 km/h IAS
Minimum control speed, landing	$V_{\text{min}\text{EP}}$	120 km/h IAS

13. Maximum Operating Altitude

4250 m

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14. All-weather Capability:

- The aircraft is approved for Day and Night VFR and IFR flights.
- The aircraft is approved for flights in condition of low and mean icing conditions at temperatures not lower than - 20 °C.

15. Maximum Weight:

	Maximum taxiing weight Maximum take-off weight Maximum take-off weight for L 410 UVP-E-LW - (see note no.5)		6420 kg 6400 kg 5700kg
	Maximum landing weight Maximum landing weight in ex Maximum zero-fuel weight	ceptional cases	6200 kg 6400 kg 5870 kg
16. Centre of Gravit	y Range:	Forward c.g. limit Aft c.g. limit	17 % MAC 28 % MAC
17. Datum:			levelling point No. 2 on the 730 m aft of the fuselage nose

o ())

18. (reserved)

19. Levelling Means:

In longitudinal direction, the levelling plane is defined by levelling points No. 3, 5, 6, in lateral direction by levelling points No. 19L and 19P.



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tip.

TCDS EASA.A.026 Issue 34, 14 October 2022	L-410	Page 22 of 57
20. Minimum Flight Crew:	2	
21. Number of seats:	19 pax 9 pax. (L410UVP-E with An	ibulance)
22. (reserved)		
23. Baggage / Cargo Compartments	Maximum baggage load	
	 forward baggage compartment aft baggage compartment Cargo kit 	nt 140 kg 150 kg 1000 kg
24. Wheels and Tyres	Nose wheel K39-1100-7 with tyre 9.00-6 (550 x 225) M4 or 9.00-6/906 TO6-1 - Good Ye	
	Main wheel K38-1100-7 with tyre 12.50-10 (720 x 310) M3 or M 29x11,0-10/110TO1-1 Good	l4 or
CIV. Operating and Service Instruc	tions	
Flight Manual		
English version: Do-L410-1215.2 Airplane Flig	pht Manual for the L 410 UVP-E Aeroplane	
Czech version: Do-L410-1215.0 Letová příru	ička letounu L - 410 UVP - E	
Instructions for continued airworthiness:		

1. Maintenance Schedule:

English version: For aircraft in overhaul maintenance system: Do-L410-1221.1 Maintenance Schedule for the L 410 UVP-E Aeroplane For aircraft in overhaul-free maintenance system: Do-L410-1222.1 Maintenance Schedule for the L 410 UVP-E Aeroplane without overhaul

Czech version:

For aircraft in overhaul maintenance system: Do-L410-1221.1 Předpis pro údržbu letounu L - 410 UVP - E

For aircraft in overhaul-free maintenance system: Do-L410-1222.1 Předpis pro údržbu letounu L - 410 UVP - E bez GO

2. Maintenance Manual:

English version: Do-L410-1232.2	Maintenance Manual for the L 410 UVP-E Aeroplane, L 410 UVP-E9 Aeroplane, L 410 UVP-E20 Aeroplane
Czech version:	
Do-L410-1232.0	Provozně technická příručka pro letouny L - 410 UVP - E,
	L - 410 UVP - E9, L - 410 UVP - E20

3. Album of Production, Operation and Repair Tolerances

English version: Do-L410-2031.2 Album of Production, Operation and Repair Tolerances of the L 410 UVP-E, E9, E20 Aeroplane



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TCDS EASA.A.026 Issue 34, 14 October 2022	L-410	Page 23 of 57
Czech version: Do-L410-2031.0	Album výrobních, provozních a opravárenských tolerance E9, E20	L - 410 UVP - E,
4. Aging aircraft program		
English version: Do-L410-1229.2	Aging aircraft program for the L 410 M aeroplane, L 410 U L 410 UVP-E aeroplane, L 410 UVP-E9 aeroplane, L 410 UVP-E20 aeroplane, L-420 aeroplane	VP aeroplane,
Czech version: Do-L410-1229.0	Příručka pro kontrolu letounů starších 20 let pro typy L 41 L 410 UVP, L 410 UVP-E, L 410 UVP-E9, L 410 UVP-E20	
5. Structural Repair Manua	d .	
English version: Do-L410-2021.2	Airframe Repair Manual L 410 UVP, L 410 UVP-E, L 410 UVP-E9, L 410 UVP-E20 Aeroplane	
Czech version: Do-L410-2021.1	Příručka pro opravu draku letounu L-410 v polních podmí	nkách
6. Inspection Manual		
English version: Do-L410-2011.2	Inspection Manual for the L 410 UVP-E Aeroplane, L 410 UVP-E9 Aeroplane, L 410 UVP-E20 Aeroplane	
Czech version: Do-L410-2011.0	Příručka pro revizi letounů L - 410 UVP - E, L - 410 UVF UVP - E20	² - E9,L - 410
Others Manuals:		
1. Wiring Manual		
English version: Do-L410-1242.2	Wiring Manual for the L 410 UVP-E Aeroplane, L 410 UV Aeroplane, L 410 UVP-E20 Aeroplane	′P-E9
Do-L410-1241.4	Wiring Manual for the L 410 UVP-E Aeroplane	
Czech version: Do-L410-1242.0	Album elektroschemat pro letouny L - 410 UVP - E,	
Do-L410-1241.1	L - 410 UVP - E9, L - 410 UVP - E20 Album elektroschemat letounu L - 410 UVP - E	
2. Illustrated Parts Catalogu	le	
English version: Do-L410-2051.2	Illustrated Parts Catalogue for the L 410 UVP-E Aeroplar Aeroplane, L 410 UVP-E20 Aeroplane	ie,L 410 UVP-E9
Czech version: Do-L410-2051.0	Katalog dílů a montážních jednotek pro letouny L - 410 L L - 410 UVP - E9, L - 410 UVP - E20	JVP - E,



Eligible Serial Numbers

Serial Numbers of L-410 UVP-E aircraft since production:

851321, 851324, 851334, 851428 through 851430, 861601 through 861620, 861701 through 861730, 861801 through 861810, 861813, 871811 through 871812, 871923, 871924, 872006 through 872038, 882207, 892214 through 892216, 892228, 892229, 892301, 892311 through 892324, 892329, 892334 through 892343, 892401 through 902406, 902414, 902418 through 902440, 902501 through 902521, 902525 through 902527, 912528 through 912540, 912601, 912602, 912605 through 912609, 912612, 912614, 912615, 912616, 912618, 952624 through 952626

Other Serial Numbers are eligible as L-410 UVP-E model after rebuilding according to Service Bulletin L410UVP-E/108b recorded in an Airplane Log Book.

C V. Operational Suitability Data

Master Minimum Equipment List (MMEL)

Do-L410-3000.2 Master Minimum Equipment List L410 UVP-E, E9, E20

C VI. Notes

- 1. This model was originally approved by CAA Czech under Type Certificate No. 86-01 on January 30, 1986.
- 25. List of NLGS-2 requirements having been replaced by ENLGS requirements:
 - NLGS-2 para 3.6.1.5 replaced by ENLGS para 3.6.2.1 Actual landing distances
 - NLGS-2 para 5.2.8.4 replaced by ENLGS para 5.2.8.4 Remote electric control of wing flaps and spoilers
 - NLGS-2 para 5.4.2 replaced by ENLGS para 5.4.2 Brake fluid leakage
 - NLGS-2 para 5.4.6 replaced by ENLGS para 5.4.6 Landing with braked wheels
 - NLGS-2 para 5.4.8 replaced by ENLGS para 5.4.6 Skidding with braked wheels
 - NLGS-2 para 5.5.5 replaced by ENLGS para 5.5.5 Incombustible hydraulic fluid
 - NLGS-2 para 5.5.10 replaced by ENLGS para 5.5.9 Automatic change-over of primary hydraulic systems
 - NLGS-2 para 5.5.13 replaced by ENLGS para 5.5.5 Fire resistance and explosion resistance of hydraulic system
 - NLGS-2 para 5.7.6 replaced by ENLGS para 5.7.4 Control of air temperature in cabin
 - NLGS-2 para 5.11.8.2 replaced by ENLGS para 5.11.7.16 Windows in emergency exits
 - NLGS-2 para 7.1.2.9 replaced by ENLGS para 7.1.2.8 Part only: Fuelling time
 - NLGS-2 para 7.5.1.2.7 replaced by ENLGS para 7.5.1.2.5 Automatic operation of fire extinguishing system during emergency landing
 - NLGS-2 para 7.5.1.4.8 replaced by ENLGS para 7.5.1.2.5 Actuation of fare extinguishing system during emergency landing
 - NLGS-2 para 8.5.5.11 replaced by ENLGS para 8.5.2.13



26. List of NLGS-2 requirements for which exemptions have been approved:

- 3.6.1.3 Landing distances required
- 3.7.5.2 Transient process characteristics during critical engine failure
- 5.4.2 Brake fluid leakage
- 5.4.17 Brake system warning indication
- 5.7.2 Independence of air-conditioning system
- 5.12.6 Single-point fuelling
- 5.11.10.1 Width of aisle
- 7.1.1.11 Overfilling of fuel tanks
- 7.1.7.1 Fuel system instruments
- 7.1.7.2 Fuel quantity checking
- 7.1.7.3 Fuel reserve checking error
- 7.1.8.8.1 Reserve fuel quantity indicator error
- 7.2.6.1 Oil system instruments
- 7.5.1.1.1a Fire precautions
- 7.5.1.4.6 Automatic actuation of fire extinguishing system
- 7.5.1.4.7 Inadvertent actuation of fire extinguishing system
- 8.2.2.1.7 Pitch-angle, bank-angle, and heading indication after a failure
- 8.2.2.1.9 Indication of correct operation of pitch-angle, bank-angle, and
- headingindicators
- 8.2.3.1 Engine instruments
- 8.5.4.2 Generator characteristics
- 8.5.5.5 Characteristics of protective derives
- 8.5.6.1 Electrical loads-compliance with the requirements of P8.5
- 8.5.7 Self-extinguishing properties of electrical conductors
- 8.5.8.1 Electrical loads-compliance with the requirements of P8.5
- 8.7.1.9 Cockpit control knobs-colour contrast
- 4. Duly performance of the Service Bulletin L410UVP-E/192b (recorded to the Aircraft Log Book) converts the L-410 UVP-E model to the L-410 UVP-E-LW model with lower MTOW 5700kg.
- 5. The permission for continuous operation of each listed S/N aircraft within EU member states after 1 July 2010 will be granted based on condition that essential safety modifications are carried out onthe aircraft in accordance with the Service Bulletin L-410 UVP-E/230b as mandated by EASA Airworthiness Directive 2008-0104.

Aircraft that comply with Part A and Part B of Service Bulletin L-410 UVP-E/230b will be without any additional operation limitations.

Aircraft that only comply with Part B of Service Bulletin L-410 UVP-E/230b will be restricted to transport of maximum 9 passengers or to Para trooping purposes.

SECTION D: L 410 UVP – E9 Type Design

DI. General

- 1. Data Sheet No: EASA.A.026
- 2. Type / Model / Variant
- Type: L-410 Model: L 410 UVP - E9 Variant: 3. Airworthiness Category: Commuter 4. Type Certificate Holder: Aircraft Industries, a.s. Na Záhonech 1177, 686 04 Kunovice CZECH REPUBLIC 5. Manufacturer: LET, n.p. Na Záhonech 1177 686 04 Kunovice **CZECHOSLOVAKIA** LET, a.s. Na Záhonech 1177 686 04 Kunovice CZECHOSLOVAKIA / CZECH REPUBLIC LETECKÉ ZÁVODY, a.s. Na Záhonech 1177 686 04 Kunovice CZECH REPUBLIC Aircraft Industries, a.s. Na Záhonech 1177 686 04 Kunovice CZECH REPUBLIC 6. National Certification Date: March 22, 1988 7. CAA Application Date: 8. CAA Recommendation Date: 9. EASA Type Certification Date: 28 March, 2007 **DII.** Certification Basis 1. Reference Date for determining the applicable requirements: 2. CAA CZ Type Certificate Data Sheet No 71-04
 - 3. CAA CZ Certification Basis:
 - 4. Airworthiness Requirements: JAR 25, Change 11, dated 17.03.1986



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TCDS EASA.A.026 Issue 34, 14 October 2022	L-410 Page 27 of 57
5. Requirements elected to comply	None
6. EASA Special Conditions:	None
7. EASA Exemptions:	Refer to D VI. Notes, paragraph 3
8. EASA Equivalent Safety Findings:	For those exemptions specified in item 3 above appropriate measures were accepted showing, as a minimum, the same level of safety. These measures form parts of the certification data.
9. EASA Environmental Standards:	L16/I, Part II, Chapter 10
10. Operational Suitability Certification Basis:	MMEL: CS-MMEL, Initial Issue

DIII. Technical Characteristics and Operational Limitations

1.	Type Design Def	inition:	Specifi	cation sheet I	B 500 202 N - L 410 UVP - E9
2.	Description:		Powere system consist L410 U	ed by two turk is performed s of main and VP-E9 with A	per-wing, all-metal design. poprop engines. Control I for two pilots. Landing gear I nose landing gear. Ambulance Kit installation is sport of 9 patients.
3.	Equipment:			of approved	equipment is shown in anual.
4.	Dimensions:				
		Wingspan	19.980	m	with wing tips tanks
			19.479	m	without wing tip tanks
		Length	14.467	m	
		Height	5.829	m	
		Wing Area	35.18	m ²	with wing tips tanks
			34.86	m ²	without wing tip tanks
5.	Engines:		2		
	5.1. Model:		WALTE	ER M 601 E	
	5.1.1.Type (Certificate:	EASA.I	E.070 (replac	ing 89-03, CAA CZ issued
	5.1.2.Engin	e Limits			
		Maximum continuous power ra Maximum power Max. gas generator speed Max. propeller speed Max. ITT	ating:		560 kW 100.5 % 2080 rpm 760 °C
		Take-off power rating: Maximum power Max. gas generator speed Max. propeller speed Max. ITT			560 kW 100 % 2080 rpm 735°C



	Take-off power rating with war Maximum power Max. gas generator speed Max. propeller speed Max. ITT	ter injection:	560 kW 100 % 2080 rpm 735 °C
	Contingency power rating: Maximum power Max. gas generator speed Max. propeller speed Max. ITT		595 kW 102 % 2080 rpm 780 °C
			4
5.2. Model:	Cartificato	WALTER M 601E-2	
5.2.1.1 ype 5.2.2.Engir	Certificate: ne Limits	EASA.E.070 (replac	ing 89-03, CAA CZ issued)
	Maximum continuous power r	ating:	
	Maximum power		560 kW
	Max. gas generator speed Max. propeller speed		100.5 % 2080 rpm
	Max. ITT		760°C
	Take-off power rating: Maximum power		560 kW
	Max. gas generator speed		100 %
	Max. propeller speed Max. ITT		2080 rpm 735°C
	Take-off power rating with wa	ter injection:	
	Maximum power	,	560 kW
	Max. gas generator speed		100 %
	Max. propeller speed Max. ITT		2080 rpm 735°C
	Contingency power rating:		
	Maximum power		595 kW 102 %
	Max. gas generator speed Max. propeller speed		2080 rpm
	Max. ITT		780 °C
Propellers:		2	
6.1. Model:		V510	
6.1.1.Type	Certificate:	EASA.P.029 (replace	cing 89-04, CAA CZ issued)
6.1.2.Number of blades:		5	
6.1.3.Sense of Rotation:		Clockwise in view of flight direction	
6.1.4.Diameter:		2300 mm	
Fluids:			
7.1. Fuel	T1 according to ST SEV 5024 TS 1 according to ST SEV 502 RT according to ST SEV 502 PL 6 according to PND 25005 PL 7 according to PND 25005	24-85, or GOST 1022 4-85, or GOST 10227 5-76	27-86, or ČSN 656 520

PL 7 according to PND 25005-92

- JET A according to ASTMD 1655-89
- JET A-1 according to ASTMD 1655-89, or DERD 2494
- PSM 2 according to PN-86/C-96026



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6.

7.

7.2. Oil Aero Shell Turbo Oil 500 Aero Shell Turbo Oil 555 Aero Shell Turbo Oil 560 Mobil Jet 0 II B3V (Russian production) Exon TO 2380 Castrol 599

8. Fluid capacities:

9.

8.1. Fuel:	Standard Tank	Total:	1000	kg
		Usable:	991	kg
	Wing Tips Tank	Total:	314	kg
		Usable:	310	kg
8.2. Oil:	Engine	Maximum:	11	Litre
		Minimum:	5,5	Litre
Air Speeds:				
	Maximum operating speed v_{MO} Maximum flaps extended speed, landing		335 km	n/h IAS
		sooa, lanang	0001	

Vмо	335 km/h IAS
VFE	220 km/h IAS
VFE	250 km/h IAS
VA	260 km/h IAS
VLO	250 km/h IAS
VLE	250 km/h IAS
VSP	190 km/h IAS
VMCG	130 km/h IAS
VMCA	135 km/h IAS
VMCL	135 km/h IAS
	VFE VFE VA VLO VLE VSP VMCG VMCA

4250 m

10. Maximum Operating Altitude

11. All-weather Capability:

- The aircraft is approved for Day and Night VFR and IFR flights.

- The aircraft is approved for flights in condition of low and mean icing conditions at temperatures not lower than -20 °C

12. Maximum Weight:

	Maximum taxiing weight Maximum take-off weight Maximum landing weight Maximum landing weight in ex Maximum zero-fuel weight	ceptional cases	6620 kg 6600 kg 6400 kg 6600 kg 5870 kg
13. Centre of Gravity	y Range:	Forward c.g. limit Aft c.g. limit	17 % MAC 30 % MAC
14. Datum:			velling point No. 2 (LP 2) on the 730 m aft of the fuselage nose
15. (reserved)			
16. Levelling Means	:	defined by levelling	tion, the levelling plane is points No. 3, 5, 6, in lateral points No. 19L and 19P.



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TCDS EASA.A.026 Issue 34, 14 October 2022	L-410	Page 30 of 57
17. Minimum Flight Crew:	2	
18. Number of seats:	19 pax 9 pax. (L410UVP-E9 with Amb	oulance)
19. (reserved)		
20. Baggage / Cargo Compartments	Maximum baggage load - forward baggage compartment - aft baggage compartment - Cargo kit	140 kg 150 kg 1000 kg
21. Wheels and Tyres	Nose wheel K39-1100-7 with tyre 9.00-6 (550 x 225) M4 or 9.00-6/906 TO6-1 - Good Year	
	Main wheel K38-1100-7 with tyre 12 10 (720 x 310) M3 or M4 or 29x11,0-10/110T01-1 Good Ye	

DIV. Operating and Service Instructions

Flight Manual

English version:	
Do-L410-1211.2	Airplane Flight Manual for the L-410 UVP-E Aeroplane
Do-L410-1213.2	Airplane Flight Manual for the L-410 UVP-E9 Aeroplane

Instructions for continued airworthiness:

1. Maintenance Schedule:

English version:	
Do-L410-1225.2	Maintenance Schedule for the L 410 UVP-E9 Aeroplanewithout overhaul
Czech version:	
Do-L410-1225.0	Předpis pro údržbu letounu L-410 UVP-E9 bez GO

2. Maintenance Manual:

English version:	Maintenance Manual for the L 410 UVP-E Aeroplane,L 410 UVP-E9
Do-L410-1232.2	Aeroplane, L 410 UVP-E20 Aeroplane
Czech version:	Provozně technická příručka pro letouny L - 410 UVP - E, L - 410 UVP -
Do-L410-1232.0	E9, L - 410 UVP - E20

3. Album of Production, Operation and Repair Tolerances

English version: Do-L410-2031.2	Album of Production, Operation and Repair Tolerancesof the L 410 UVP-E, E9, E20 Aeroplane
Czech version:	Album výrobních, provozních a opravárenských tolerancí
Do-L410-2031.0	L-410 UVP-E, E9, E20



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4. Aging aircraft program

English version:	
Do-L410-1229.2	Aging aircraft program for the L 410 M aeroplane, L 410 UVP aeroplane,L 410 UVP-E aeroplane, L 410 UVP-E9 aeroplane, L 410 UVP-E20 aeroplane, L-420 aeroplane
Czech version:	
Do-L410-1229.0	Příručka pro kontrolu letounů starších 20 let pro typy L 410 M, L 410 UVP,

L 410 UVP-E, L 410 UVP-E9, L 410 UVP-E20, L-420

5. Airframe Repair Manual

English version:	
Do-L410-2021.2	Airframe Repair Manual L 410 UVP-E, E9, E20 Aeroplane
Czech version:	
Do-L410-2021.1	Příručka pro opravu draku letounu L-410

6. Inspection Manual

English version: Do-L410-2011.2	Inspection Manual for the L 410 UVP Aeroplane, L 410 UVP-E Aeroplane, L 410 UVP-E9 Aeroplane and L 410 UVP-E20 Aeroplane
Czech version:	
Do-L410-2011.0	Příručka pro revizi letounů L-410 UVP-E, L-410 UVP-E9,L-410 UVP-E20

Others Manuals:

1. Wiring Manual

English version:	
Do-L410-1242.2	Wiring Manual for the L 410 UVP-E Aeroplane, L 410 UVP-E9Aeroplane, L 410 UVP-E20 Aeroplane
Czech version:	
Do-L410-1242.0	Album elektroschemat pro letouny L - 410 UVP - E,L - 410 UVP - E9, L - 410 UVP - E20

2. Illustrated Parts Catalogue

English version:	
Do-L410-2051.2	Illustrated Parts Catalogue for the L 410 UVP-E Aeroplane, L 410 UVP-E9 Aeroplane, L 410 UVP-E20 Aeroplane
Czech version:	
Do-L410-2051.0	Katalog dílů a montážních jednotek pro letouny L-410UVP-E, L-410 UVP-E9, L-410 UVP-E20

Eligible Serial Numbers

Serial Numbers of L 410 UVP-E9 since production 882039, 882040, 912619, 912620, 912627, 922701, 922702, 942703, 952623, 962632, 962633, 962704, 962715, 012638, 022634,

Other Serial Numbers are eligible as L 410 UVP-E9 model after rebuilding according to Service Bulletin L410UVP-E/095b recorded in an Airplane Log Book.



DV. Operational Suitability Data

Master Minimum Equipment List (MMEL)

Do-L410-3000.2 Master Minimum Equipment List L410 UVP-E, E9, E20

D VI. Notes

- 1. This model was originally approved by CAA Czech under Type Certificate No. 88- 01 on March 22, 1988.
- 2. List of JAR-25 requirements for which exemptions have been approved:
 - JAR 25.607 (a) Some removable fasteners in those systems specified in (1) and (2) of this
 paragraph do not incorporate two separate locking devices. They are secured by means of
 slotted nuts and split pins.
 - JAR 25.672 (a) Only the condition of automatic bank control circuit is enunciated on the central warning display. Drop of pressure in the hydraulic system is indicated by a pressure gauge. Correct function of electrical circuit is checked before take-off by means of a TEST pushbutton.
 - JAR 25.677 (b) For the aileron trim tab the neutral position is only enunciated. The Aeroplane Flight Manual requires that the neutral position must be checked before taxiing-out for take-off.
 - JAR 25.679 The control surfaces can only be locked on the ground, by means of clamps. These locking devices are conspicuously marked by red flags.
 - JAR 25.703 Å yellow light on the central warning display annunciates that the wing flaps are not in the take-off position. Parking brake release is indicated by the position of the control lever and a change in pressure gauge reading.
 - JAR 25.777 (e) The wing-flap control is located level with the landing gear control.
 - JAR 25.777 (f) The landing gear control is not located of the throttles, but aft of the throttles.
 - JAR 25.853 (c) The test in compliance with this requirement was not conducted.
 - JAR 25.1305 (c) A fuel flow meter indicator is not included in the fuel system for each engine. The engine power setting is sufficiently characterized by the indicated engine parameters.
 - JAR 25.1305-(c) (8) There is no indication of proper functioning of the fuel heater. Warm oil
 passes through the heater continuously.

Note: Fuel heater was removed from type design by TDC ZTN 001, TDC ZKB 53 210 and TDC ZKB 53 689 for the airplanes manufactured after August 12/2009.

- JAR 25.1305 (e) (3) Each propeller blade position below the minimum flight pitch is indicated.
- JAR 25.1326 (a)Operation of the pitot heating system is indicates by a green light. When the system is not operating, for any reason, the green light extinguishes.
- JAR 25.1337 (a) (2) Instrument lines and hoses have 4 mm inner diameter, which reduces therisk of escape of excessive fluid if the line fails.
- JAR 25.1435 (a) (2)A means to indicate hydraulic fluid quantity is not installed. The hydraulic system is a closed circuit, which is not connected with the atmosphere. Hydraulic fluid leakage could only occur in the event of a failure of some system component. In such a case a separate emergency system can be used.
- 3. The permission for continuous operation of each listed S/N aircraft within EU member states after 1 July 2010 will be granted based on condition that essential safety modifications are carried out on the aircraft in accordance with the Service Bulletin L-410 UVP-E/231b as mandated by EASA Airworthiness Directive 2008-0105.

Aircraft that comply with Part A and Part B of Service Bulletin L-410 UVP-E/231b will be without any additional operation limitations.

Aircraft that only comply with Part B of Service Bulletin L-410 UVP-E/231b will be restricted to transport of maximum 9 passengers or to Para trooping purposes.



SECTION E: L 410 UVP-E20 Type Design

EI. General

1. Data Sheet No:	EASA.A.026
2. Type and models - Type: - Models:	L-410 L 410 UVP-E20 L 410 UVP-E20 CARGO
3. Airworthiness Category:	Commuter
4. Type Certificate Holder:	Aircraft Industries, a.s. Na Záhonech 1177, 686 04 Kunovice CZECH REPUBLIC
5. Manufacturer:	LET, n.p. Na Záhonech 1177 686 04 Kunovice CZECHOSLOVAKIA
	LET, a.s. Na Záhonech 1177 686 04 Kunovice CZECHOSLOVAKIA/ CZECH REPUBLIC
	LETECKÉ ZÁVODY, a.s. Na Záhonech 1177 686 04 Kunovice CZECH REPUBLIC
	Aircraft Industries, a.s. Na Záhonech 1177 686 04 Kunovice CZECH REPUBLIC
6. National Certification Date:	October 30, 1990
7. CAA Application Date:	February 1, 1988
8. CAA Recommendation Date:	
9. EASA Type Certification Date:	February 4, 2005
E II. Certification Basis	
1. Reference Date for determining the applicable requirements:	February 1, 1988
2. CAA CZ Type Certificate Data Sheet No	71-04
3. CAA CZ Certification Basis:	14 CFR Part 23 at Amdt. 34



TCDS EASA.A.026 Issue 34, 14 October 2022	L-410	Page 34 of 57
4. Airworthiness Requirements:	14 CFR Part 23 at Amdt. 34	
5. Requirements elected to comply	None	
6. EASA Special Conditions:	None	
7. EASA Exemptions:	Refer to E.VI. Notes, paragraph 3	
8. EASA Equivalent Safety Findings:	For those exemptions specified in iten appropriate measures were accepted minimum, the same level of safety. The form parts of the certification data.	showing, as a
9. EASA Environmental Standards:	L16/I, Part II, Chapter 10	
10. Operational Suitability Certification Basis:	MMEL: CS-MMEL, Initial Issue	
	Flight Crew Data (FCD)	
	Flight Crew Data (CS-FCD Initial Issue 2014).	e 31 January

EIII. Technical Characteristics and Operational Limitations

1. Type Design Definition:		Specification sheet B 500 245 N - L 410 UVP-E20		
2. Description:		Powered by two tur is performed for two ofmain and nose la L 410 UVP-E20 is -19 passengers. L 410 UVP-E20 wii installedis determine L 410 UVP-E20 wii isdetermined for tra- additional passeng L 410 UVP-E20 wit determinedfor trans containers. L 410 UVP-E20 wit foldingdouble seats L 410 UVP-E20 wit quickchange config seats. L 410 UVP-E20 CA exclusivelyfor trans equipped with carg extinguisher and p L 410 UVP-E20 CA	determined for transport of 15 th Sport Parachuting kit ned for parachute droppings. th Ambulance kit installed ansport of 9 patients and 3 gers. th Cargo kit installed is sport of 1700 kg of cargo in two th the rear VIP saloon with s with armrests. th passenger to cargo guration with foldable NRGO is determined sport of cargo in the cabin go restrain system, 13 lb fire rotective breathing equipment. NRGO fuselage is not underwing emergency exits. wing tip	
3. Equipment:		The list of approved inthe Maintenance	d equipment is shown Manual.	
4. Dimensions:	Wingspan	19.980 m	with wing tips tanks	



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			19.479	m	without wing tip tanks
		Length	14.424	m	0 1
		-			
		Height	5.829	m	
		Wing Area	35.18	m ²	with wing tips tanks
		-	34.86	m ²	without wing tip tanks
					warea wing ap tanko
5. Engii			2		
5.1.	Model:		WALTE	ER M601E	
	5.1.1.Type	e Certificate:	EASA.I	E.070 (repla	cing 89-03, CAA CZ issued)
	5.1.2.Engi			、 i	0
	5. I.Z.LIIGI				
		Maximum continuous power ra	ting:		500 114
		Maximum power			560 kW
		Max. gas generator speed			100.5 %
		Max. propeller speed			2080 rpm
		Max. ITT			760 °C
		Take-off power rating:			
		Maximum power			560 kW
		Max. gas generator speed			100 %
		Max. propeller speed			2080 rpm
		Max. ITT			735°C
		Max. III			/35 C
		Take off new or rating with wate	riniaatia		
		Take-off power rating with wate	erinjectio	on:	F00 L M/
		Maximum power			560 kW
		Max. gas generator speed			100 %
		Max. propeller speed			2080 rpm
		Max. ITT			735 °C
		Contingency power rating:			
		Maximum power			595 kW
		Max. gas generator speed			102 %
		Max. propeller speed			2080 rpm
		Max. ITT			780 °C
		or			
		or			
5.2.	Model:	or		ER M601E-2	
		or e Certificate:			
	5.2.1. Тур	e Certificate:			1 cing CAA CZ TC No 89-03)
		e Certificate: ine Limits	EASA.I		
	5.2.1. Тур	e Certificate: ine Limits Maximum continuous power ra	EASA.I		cing CAA CZ TC No 89-03)
	5.2.1. Тур	e Certificate: ine Limits Maximum continuous power ra Maximum power	EASA.I		cing CAA CZ TC No 89-03) 560 kW
	5.2.1. Тур	e Certificate: ine Limits Maximum continuous power ra Maximum power Max. gas generator speed	EASA.I		cing CAA CZ TC No 89-03) 560 kW 100.5 %
	5.2.1. Тур	e Certificate: ine Limits Maximum continuous power ra Maximum power Max. gas generator speed Max. propeller speed	EASA.I		cing CAA CZ TC No 89-03) 560 kW 100.5 % 2080 rpm
	5.2.1. Тур	e Certificate: ine Limits Maximum continuous power ra Maximum power Max. gas generator speed	EASA.I		cing CAA CZ TC No 89-03) 560 kW 100.5 %
	5.2.1. Тур	e Certificate: ine Limits Maximum continuous power ra Maximum power Max. gas generator speed Max. propeller speed Max. ITT	EASA.I		cing CAA CZ TC No 89-03) 560 kW 100.5 % 2080 rpm
	5.2.1. Тур	e Certificate: ine Limits Maximum continuous power ra Maximum power Max. gas generator speed Max. propeller speed Max. ITT Take-off power rating:	EASA.I		cing CAA CZ TC No 89-03) 560 kW 100.5 % 2080 rpm 760°C
	5.2.1. Тур	e Certificate: ine Limits Maximum continuous power ra Maximum power Max. gas generator speed Max. propeller speed Max. ITT	EASA.I		cing CAA CZ TC No 89-03) 560 kW 100.5 % 2080 rpm
	5.2.1. Тур	e Certificate: ine Limits Maximum continuous power ra Maximum power Max. gas generator speed Max. propeller speed Max. ITT Take-off power rating:	EASA.I		cing CAA CZ TC No 89-03) 560 kW 100.5 % 2080 rpm 760°C
	5.2.1. Тур	e Certificate: ine Limits Maximum continuous power ra Maximum power Max. gas generator speed Max. propeller speed Max. ITT Take-off power rating: Maximum power Max. gas generator speed	EASA.I		cing CAA CZ TC No 89-03) 560 kW 100.5 % 2080 rpm 760°C 560 kW 100 %
	5.2.1. Тур	e Certificate: ine Limits Maximum continuous power ra Maximum power Max. gas generator speed Max. propeller speed Max. ITT Take-off power rating: Maximum power Max. gas generator speed Max. propeller speed	EASA.I		cing CAA CZ TC No 89-03) 560 kW 100.5 % 2080 rpm 760°C 560 kW 100 % 2080 rpm
	5.2.1. Тур	e Certificate: ine Limits Maximum continuous power ra Maximum power Max. gas generator speed Max. propeller speed Max. ITT Take-off power rating: Maximum power Max. gas generator speed	EASA.I		cing CAA CZ TC No 89-03) 560 kW 100.5 % 2080 rpm 760°C 560 kW 100 %
	5.2.1. Тур	e Certificate: ine Limits Maximum continuous power ra Maximum power Max. gas generator speed Max. propeller speed Max. ITT Take-off power rating: Maximum power Max. gas generator speed Max. propeller speed Max. ITT	EASA.I	E.070 (repla	cing CAA CZ TC No 89-03) 560 kW 100.5 % 2080 rpm 760°C 560 kW 100 % 2080 rpm
	5.2.1. Тур	e Certificate: ine Limits Maximum continuous power ra Maximum power Max. gas generator speed Max. propeller speed Max. ITT Take-off power rating: Maximum power Max. gas generator speed Max. propeller speed Max. ITT Take-off power rating with wate	EASA.I	E.070 (repla	cing CAA CZ TC No 89-03) 560 kW 100.5 % 2080 rpm 760°C 560 kW 100 % 2080 rpm 735°C
	5.2.1. Тур	e Certificate: ine Limits Maximum continuous power ra Maximum power Max. gas generator speed Max. propeller speed Max. ITT Take-off power rating: Maximum power Max. gas generator speed Max. propeller speed Max. ITT Take-off power rating with wate Maximum power	EASA.I	E.070 (repla	cing CAA CZ TC No 89-03) 560 kW 100.5 % 2080 rpm 760°C 560 kW 100 % 2080 rpm 735°C 560 kW
	5.2.1. Тур	e Certificate: ine Limits Maximum continuous power ra Maximum power Max. gas generator speed Max. propeller speed Max. ITT Take-off power rating: Maximum power Max. gas generator speed Max. ITT Take-off power rating with wate Max. ITT	EASA.I	E.070 (repla	cing CAA CZ TC No 89-03) 560 kW 100.5 % 2080 rpm 760°C 560 kW 100 % 2080 rpm 735°C 560 kW 100 %
	5.2.1. Тур	e Certificate: ine Limits Maximum continuous power ra Maximum power Max. gas generator speed Max. propeller speed Max. ITT Take-off power rating: Maximum power Max. gas generator speed Max. ITT Take-off power rating with wate Max. ITT Take-off power rating with wate Max. ITT	EASA.I	E.070 (repla	cing CAA CZ TC No 89-03) 560 kW 100.5 % 2080 rpm 760°C 560 kW 100 % 2080 rpm 735°C 560 kW 100 % 2080 rpm
	5.2.1. Тур	e Certificate: ine Limits Maximum continuous power ra Maximum power Max. gas generator speed Max. propeller speed Max. ITT Take-off power rating: Maximum power Max. gas generator speed Max. ITT Take-off power rating with wate Max. ITT	EASA.I	E.070 (repla	cing CAA CZ TC No 89-03) 560 kW 100.5 % 2080 rpm 760°C 560 kW 100 % 2080 rpm 735°C 560 kW 100 %

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	Contingency power rating: Maximum power Max. gas generator speed Max. propeller speed Max. ITT		595 kW 102 % 2080 rpm 780 °C	
	or			
5.3. Model:		GE H80-200		
5.3.1.Typ	e Certificate:	EASA.E.070		
5.3.2.Eng	ine Limits			
	Maximum continuous power r Maximum power Max. gas generator speed Max. propeller speed Max. ITT	ating:	522 kW 98.4 % 1700 - 2080 rpm 720°C	
	Take-off power rating: Maximum power Max. gas generator speed Max. propeller speed Max. ITT		597 kW 101.5 % 2080 rpm 780°C	
	Continuous OEI power rating: Maximum power Max. gas generator speed Max. propeller speed Max. ITT		597 kW 101.5 % 2080 rpm 780 °C	
Propellers:		2		
6.1.2.Nun	e Certificate: nber of blades: ise of Rotation: meter:	V510 EASA.P.029 (repla 5 Clockwise in view o 2300 mm	acing 89-04, CAA CZ issued) of flight direction	
6.2. Model:		AV-725-1-E-C-F-R(W)/CFR230-433 (for GE H80-200 engines only)		
6.2.1.Typ	e Certificate:	EASA P.031		
6.2.2.Nun	nber of blades:	5		
6.2.3.Sen	se of Rotation:	Clockwise in view of flight direction		
6.2.4.Diameter:		2300 mm		
Fluids:				
7.1. Fuel	T1 according to ST SEV 5024 TS 1 according to ST SEV 502 RT according to ST SEV 502 PL 6 according to PND 25-00 PL 7 according to PND 25-00 JET A according to ASTM D JET A-1 according to ASTME PSM 2 according to PN-86/C No. 3 Jet Fuel according to F	24 or GOST 10227 or 4 or GOST 10227 or 0 5 5 1655 1655 or DERD 2494 -96026	ĆSN 656 520	

6.

or

7.

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No. 3 Jet Fuel according to PRC National Standard GB 6537-2018

7.2. Oil Aero Shell Turbo Oil 500 Aero Shell Turbo Oil 555 Aero Shell Turbo Oil 560 Mobil Jet 0 II B3V (Russian production) Exon TO 2380 Castrol 599

8. Fluid capacities:

8.1. Fuel:	Standard Tank	Total:	1290	Litre
		Usable:	1278	Litre
	Wing Tips Tank	Total:	400	Litre
		Usable:	395.2	Litre
8.2. Oil:	Engine	Maximum:	11.00	Litre
		Minimum:	5.50	Litre

9. Air Speeds:

ii Speeus.			
	Maximum operating speed Maximum flaps extended speed, landing	V _{MO}	181 KIAS (335 km/h IAS)
	configuration 42°	VFE	119 KIAS (220 km/h IAS)
	Maximum flaps extended speed, take-off		
	configuration 18°	VFE	135 KIAS (250 km/h IAS)
	Design maneuvering speed	VA	143 KIAS (265 km/h IAS)
	Maximum landing gear operating speed	VLO	135 KIAS (250 km/h IAS)
	Maximum landing gear extended speed	VLE	135 KIAS (250 km/h IAS)
	Maximum spoiler operating speed	VSP	102 KIAS (190 km/h IAS)
	Minimum control speed		. , ,
	for take-off run	VMCG	70 KIAS (130 km/h IAS)
	Minimum control speed for take-off	VMCA	73 KIAS (135 km/h IAS)
	Minimum control speed for landing	VMCL	73 KIAS (135 km/h IAS)
	Maximum permissible spoiler extension		
	speed	VMCL	102 KIAS (190 km/hr IAS)
	Airplane with GE H80-200 engines and AV	-725	
	propellers:		
	Operating maneuvering speed	Vo	143 KIAS (265 km/h IAS)
	Minimum control speed on ground		
	take-off run	VMCG	60 KIAS (111 km/h IAS)
	Minimum control speed, take-off	- mou	
	for flaps 18°	VMCA	65 KIAS (121 km/h IAS)
	Minimum control speed, take-off	VINCA	
	for flaps 18°	VNOA	77 KIAS (143 km/hr IAS)
	Minimum control speed	VMCA	
		14.10	GE K A C (121 km/br A C)
	for landing	VMCL	65 KIAS (121 km/hr IAS)

10. Maximum Operating Altitude

4250 m

11. All-weather Capability:

- The aircraft is approved for Day and Night VFR and IFR flights.

- And for intended flights in icing conditions.

12. Maximum Weight:

Maximum taxiing weight	6620 kg
Maximum take-off weight	6600 kg
Maximum landing weight	6400 kg
Maximum landing weight Maximum landing weight in exceptional cases Maximum zero-fuel weight	6600 kg
- without wing-tip tanks	6000 kg
- with wing-tip tanks	6060 kg

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TCDS EASA.A.02 Issue 34, 14 Octo		L-410		F	Page 38 of 57
13. Centre of Grav	ity Range:	Forward c Aft c.g. lim		19 % MAC 30 % MAC	
14. Datum:				evelling point No. 2 (730 m aft of the fuse	
15. (reserved)					
16. Levelling Means:		In longitudinal direction, the levelling plane is defined by levelling points No. 3, 5, 6 in spanwise direction by levelling points No. 19L and 19P.			
17. Minimum Fligh	t Crew:	2			
18. Number of occ	upants:	19 18	(L410U	JVP-E20) VP-E20 with Sport uting Kit installation)	
		9		VP-E20 with Ambula	
		0		JVP-E20 CARGO)	
19. (reserved)					
20. Baggage / Car	go Compartments Maximum loading of baggage L 410 UVP-E20 with passen		ents for		
	forward baggage compartme aft baggage compartment additional aft baggage compa			15	0 kg 0 kg 0 kg
	Maximum loading of baggage L 410 UVP-E20 with cargo ki		partments	for	
	forward baggage compartme aft baggage compartment Cargo in cargo kit container	nt		15	0 kg 0 kg 00 kg
	Maximum loading of baggage L 410 UVP-E20 CARGO:	e/cargo com	partments	for	
	forward baggage compartmen aft baggage compartment Cargo compartment	nt		15	0 kg 0 kg 00 kg
21. Wheels and Ty	res	9.00-6	6 (550 x 22	00-7 with tyre 25) M4 or -1 - Good Year	
		12.50	-10 (720 x	00-7 with tyre 310) M3 or M4 or TO1-1 Good Year	

E IV. Operating and Service Instructions

Flight Manual

English version:	
For aircraft with M60	1E or M601E-21 engines and V510 propellers
Do-L410-1211.2	Approved Flight manual for the L 410 UVP-E20 Aeroplane
Do-L410-1214.2	Airplane Flight manual for the L 410 UVP-E20
For aircraft with H80- Do-L410-1218.2	200 engines and AV-725 propellers: Airplane Flight Manual for the L-410 UVP-E20 with H80-200 Engines and AV-725 Propellers

Instructions for continued airworthiness:

1. Maintenance Schedule:

English version: Do-L410-1223.2	Maintenance Schedule for the L410 UVP-E20 Aeroplane without overhaul
	. 59 to the Maintenance Schedule Do-L410-1223.2 is issued vith GE H80-200 engines and AV-725 propellers.
Czech version:	
Do-L410-1223.0	Předpis pro údržbu letounu L-410 UVP-E20 bez GO

2. Maintenance Manual:

2. Maintenance Manual.	
English version:	
Do-L410-1232.2	Maintenance Manual for the L 410 UVP-E Aeroplane, L 410 UVP-E9 Aeroplane, L 410 UVP-E20 Aeroplane
L 410 UVP-E9 Aero) to the Maintenance Manual for the L 410 UVP-E Aeroplane, plane, L 410 UVP-E20 Aeroplane Do-L410-1232.2 is issued for GE H80-200 engines and AV-725 propellers
Czech version:	
Do-L410-1232.0	Provozně technická příručka pro letouny L-410 UVP-E,L-410 UVP-E9, L-410 UVP-E20 (valid)
Do-L410-1231.1	Provozně technická příručka pro letoun L - 410 UVP - E
3. Album of Production, O	peration and Repair Tolerances
English version: Do-L410-2031.2	Album of Production, Operation and Repair Tolerancesof the L 410 UVP-E, E9, E20 Aeroplane
Czech version:	
Do-L410-2031.0	Album výrobních, provozních a opravárenských tolerancíL-410 UVP-E, E9, E20
4. Aging aircraft program	
English version:	

D0-L410-2031.2	L 410 UVP-E, E9, E20 Aeroplane
Czech version:	
Do-1 410-2031 0	Album výrobních, provozních a opravárenských tolerancíl -410 UV

English version: Do-L410-1229.2	Aging aircraft program for the L 410 M aeroplane, L 410 UVP aeroplane, L 410 UVP-E aeroplane, L 410 UVP-E9 aeroplane, L 410 UVP-E20 aeroplane, L-420 aeroplane
Czech version:	
Do-L410-1229.0	Příručka pro kontrolu letounů starších 20 let pro typy L 410 M, L 410 UVP, L 410 UVP-E9, L 410 UVP-E9, L 410 UVP-E20, L-420

5. Structural Repair Manual

English version:	
Do-L410-2021.2	Airfra

ame Repair Manual L 410 UVP, E, E9, E20 Aeroplane



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TCDS EASA.A.026 Issue 34, 14 October 2022	L-410	Page 40 of 5
Czech version: Do-L410-2021.1	Příručka pro opravu draku letounu L-410	
6 Inspection Manual		
English version: Do-L410-2011.2	Inspection Manual for the L 410 UVP-E Aeroplane, L 4 Aeroplane, L 410 UVP-E20 Aeroplane	10 UVP-E9
Czech version: Do-L410-2011.0	Příručka pro revizi letounů L-410 UVP-E, L-410 UVP-E	9, L-410 UVP-E20
7. Supplemental Structural	Inspection Document (SSID)	
English version: Do-L410-1224.2	Supplemental Structural Inspection Document (SSID)	
Others Manuals:		
8. Wiring Manual		
English version: Do-L410-1242.2	Wiring Manual for the L 410 UVP-E Aeroplane, L 410 L L 410 UVP-E20 Aeroplane	JVP-E9 Aeroplane,

The supplement No. 210 to the Wiring Manual for the L 410 UVP-E Aeroplane, L 410 UVP-E9 Aeroplane, L 410 UVP-E20 Aeroplane Do-L410-1242.2 is issued for L 410 UVP-E20 with GE H80-200 engines and AV-725 propellers.

Czech version:

Do-L410-1242.0	Album elektroschemat pro letouny L-410 UVP-E, L-410 UVP-E9, L-410 UVP-E20
Do-L410-1241.1	Album elektroschemat letounu L - 410 UVP - E

9. Illustrated Parts Catalogue

English version:	
Do-L410-2051.2	Illustrated Parts Catalogue for the L 410 UVP-E Aeroplane, L 410 UVP-E9 Aeroplane, L 410 UVP-E20 Aeroplane
Czech version:	
Do-L410-2051.0	Katalog dílů a montážních jednotek pro letouny L-410 UVP-E, L-410 UVP-E9, L-410 UVP-E20

Eligible Serial Numbers

Designation of Serial Numbers: YY-BB-NN (Year of production, Batch number, Number of the airplane in the batch) or since production year 2010: BB-NN.

Serial Numbers of L 410 UVP-E20 aircraft since production:

912603, 912604, 912611, 912613, 912617, 922710, 922711, 922726, 922728, 942705 through 942707, 952708, 962709, 972730, 972731, 982631, 982727, 992736, 062636, 062637, 072621, 072639, 072640, 082629, 082630, 082712, 082714, 092628, 092610, 092622, 092635, 092713, 092716 through 092718, 2719 through 2725, 2732 through 2734, 2737 through 2740, 2801 through 2819, 2901 through 2920, 3001 through 3015 and subsequent higher Serial Numbers in the 30-NN batch and next batches except S/N in format RBBNN, see note 5.

Other Serial Numbers are eligible for the L410 UVP-E20 model after rebuilding according to Service Bulletin L410UVP-E/094b recorded in an Aircraft Log Book.

Other Serial Numbers are eligible for the L410 UVP-E20 CARGO model after rebuilding according to Service Bulletin L410UVP-E/221b recorded in an Aircraft Log Book



EV . Operational Suitability Data

Master Minimum Equipment List (MMEL) Do-L410-3000.2

Master Minimum Equipment List L410 UVP-E, E9, E20

Flight Crew Data Do-L410- 1290.2

Minimum Syllabus for Pilot Type Rating Training for the L 410 UVP-E20 airplane

E VI. Notes

1. This model was originally approved by CAA Czech under Type Certificate No. 90-03 on October 30, 1990.

- 2. List of FAR-23 requirements for which exemptions have been approved:
 - FAR 23.677 (a) For the aileron trim tab the neutral position is only enunciated. The Aeroplane Flight Manual requires that the neutral position must be checked before taxiing-out for take-off.
 - FAR 23.1305 (v) There is no indication of proper functioning of the fuel heater. The heater operates automatically, there are no pilot-operated controls. A malfunction of the heater will not result in an emergency. A check of correct functioning of the fuel heater is required by theMaintenance Schedule after 300 flight hours.

<u>Note:</u> Fuel heater was removed from type design by TDC ZTN 001, TDC ZKB 53 210 and TDC ZKB 53 689 for the airplanes manufactured after August 12/2009.

FAR 23.1307 (b) (1) There is a separate switch for each electrical power source (2 storage batteries, 4 generators). These 6 switches are located next to each other on the overhead panel. This arrangement allows the switches to be switched off almost simultaneously. This arrangement prevents the possibility of a loss of all electrical power sources in the event of one master switch failure.

<u>Note:</u> This exemption does not apply for aircraft since s/n 3011 inclusive and for the aircraft with the Master Switch arrangement installed iaw. Aircraft Industries Information Bulletin L410UVP-E/413b.

3. The data in this TCDS where there is no reference to the specific model of the aircraft stated, refer both L 410 UVP-E20 and L 410 UVP-E20 CARGO.



- 4. Certification Basis for Type Design Changes
- 4.1 TDC-001-E20: Cargo kit with cargo restrain system for 1700 kg:FAR 23 Amdt. 41 plus Amdt. 23-45: 23.23, 23.305, 23.851, 23.1557; Amdt. 23-46: 23.803; Amdt. 23-48: 23.301, 23.337, 23.341, 23.561; Amdt. 23-49: 23.787, 23.855; Amdt. 23-50: 23.25, 23.1581, 23.1583, 23.1585, 23.1589; Amdt. 25-115: 25.1439.
- 4.2 TDC-063-E20-420: Installation of Universal EFI-890R Electronic Flight Displays, FA 2200 MADRAS FDR and integrated systems: KFC 325 Autopilot. GNS 430W NAV/COM/GPS. RDR 2000 Weather radar. KMR 675 Marker.KDM 706A DME, KR 87 ADF, AHS-1000A AHRS, KRA 405B Radar altimeter, CAS 67A TCAS II, MARK VI EGPWS, AC32 Digital Air Data Computer, 4300-412 Stand-by attitudeindicator and 5A16 stand-by air speed indicator. FAR 23 Amdt. 41 plus Amdt. 23-43: 23.1322, 23.1331, 23.1357; Amdt. 23-45: 23.1525; Amdt. 23-49: 23.1303, 23.1309, 23.1311, 23.1321, 23.1323, 23.1329, 23.1351, 23.1359, 23.1365, 23.1431; Amdt. 23-50: 23.1325, 23.1543, 23.1545, 23.1563, 23.1581, 23.1583, 23.1585; Amdt. 23-57: 23.1308. 4.3 TDC-070-E-E9-E20-420: Installation of the HF KHF1050 radioFAR 23 Amdt. 41 plus Amdt. 23-43: 23.1322, 23.1331, 23.1357; Amdt. 23-45: 23.1525; Amdt. 23-49: 23.1303, 23.1309, 23.1311, 23.1321, 23.1323, 23.1329, 23.1351, 23.1359, 23.1365, 23.1431; Amdt. 23-50: 23.1325, 23.1543, 23.1545, 23.1563, 23.1581, 23.1583, 23.1585; Amdt. 23-57: 23.1308. TDC-078-E-E9-E20-420: Installation of Portable Toilet Porta Potti on Airplanes L410/L-420FAR 4.4
- 4.4 I DC-078-E-E9-E20-420: Installation of Portable Toilet Porta Potti on Airplanes L410/L-420FAR
 23 Amdt. 41
- 4.5 TDC-092-E-E9-E20-420: Ambulance kitFAR 23 Amdt. 41 plus Amdt. 23-45: 23.23, 23.613; Amdt. 23-46: 23.807, 23.813, 23.815; Amdt. 23-48: 23.301, 23.337, 23.341, 23.561, 23.607, 23.611; Amdt. 23-49: 23.785, 23.853; Amdt. 23-50: 23.25, 23.1585, 23.1589.
- 4.6 TDC-094-E20-420: Conversion of toilet area in rear passenger cabin into baggage compartment: FAR 23 Amdt. 41 plus Amdt. 23-45: 23.23, 23.305, 23.613; Amdt. 23-48: 23.301, 23.337, 23.341, 23.561, 23.607, 23.611; Amdt. 23-49: 23.787; Amdt. 23-50: 23.25, 23.1585, 23.1589.
- TDC-106-E20: Installation of GE H80-200 engines and AV-725 propellers:FAR
 23 Amdt. 41 plus
 Amdt. 23-42: 23.831, 23.939; Amdt. 23-43: 23.961, 23.1011, 23.1357, 23.1365; Amdt. 23-45:
 23.23, 23.181, 23.361, 23.613, 23.655, 23.1527, 23.1549; Amdt. 23-48: 23.371, 23.393, 23.415, 23.607,
 23.611, 23.657, 23.865; Amdt. 23-49: 23.1309, 23.1329, 23.1351; Amdt. 23-50: 23.25, 23.51, 23.55, 23.57,
 23.59, 23.67, 23.77, 23.145, 23.147, 23.149, 23.177, 23.201, 23.203, 23.1521, 23.1543, 23.1545, 23.1563,
 23.1587, 23.1589; Amdt. 23-51: 23.925, 23.929, 23.933, 23.937, 23.955, 23.1041, 23.1043, 23.1045; Amdt.
 23-52: 23.1305; Amdt. 23-53: 23.901; Amdt. 23-54: 23.903; Amdt. 23-59: 23.905, 23.907.
- TDC-108-E-E9-E20-420: Passenger to cargo quick change configuration with foldable seats:FAR 23 Amdt. 41 plus
 Amdt. 23-45: 23.23, 23.305, 23.613; Amdt: 23-46: 23.803, 23.813, 23.815; Amdt. 23-48: 23.301, 23.337, 23.341, 23.561, 23.607, 23.611; Amdt. 23-49: 23.785, 23.787; 23.807, 23.853, 23.855; Amdt. 23-50: 23.25, 23.161, 23.1585, 23.1589.
- 4.9 TDC-133-E20-420: Sport Parachuting Kit:FAR 23 Amdt. 41 plus Amdt. 23-43: 23.1357, 23.1441; Amdt. 23-45: 23.23, 23.305, 23.613, 23.851; Amdt. 23-48: 23.301, 23.337, 23.341, 23.607, 23.611; Amdt. 23-49: 23.853, 23.1359, 23.1365; Amdt. 23-50: 23.25, 23.161, 23.1585, 23.1589
- 4.10 TDC-139-E-E9-E20-420 Flight attendant's folding seat installationFAR 23 Amdt. 41 plus Amdt. 23-45: 23.23, 23.25, 23.305, 23.613; Amdt. 23-46: 23.815; Amdt. 23-48: 23.301, 23.337, 23.341, 23.561, 23.607, 23.611; Amdt. 23-50: 23.3, 23.1589.
- 4.11 TDC-199-E20 Type design changes resulting from the FAA validation of the L 410 UVP-E20 and L 410 UVP-E20 CARGO models FAR 23 Amdt. 41 plus Amdt. 23-43: 23.1322, Amdt. 23-49: 23.1307, 23.1323, 23.1361, Amdt. 23-50: 23.1325, 23.1545(a), (b)(1), (b)(2), (b)(3), (b)(4) and (d).
- 5. L 410 UVP-E20 model with the "R" included in the Serial number, i.e. RBBNN, where BB is a batch number and NN is a number of an aircraft in the batch, are manufactured in Russian Federation. Those Serial Numbers are not eligible for registration in the EU Member States.



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SECTION F: L-420 Type Design

FI. General

5. Manufacturer:

- 1. Data Sheet No: EASA.A.026
- 2. Type / Model / Variant

-	Туре:	L-410
-	Model:	L-420

- Variant:
- 3. Airworthiness Category: Commuter
- 4. Type Certificate Holder: Aircraft Industries, a.s. Na Záhonech 1177 686 04 Kunovice CZECH REPUBLIC
 - S/N 922729A: LET, n.p. 686 04 Kunovice 1177 CZECHOSLOVAKIA

S/N 012735A: LETECKÉ ZÁVODY a.s. 686 04 Kunovice 1177 CZECH REPUBLIC

Aircraft Industries, a.s. Na Záhonech 1177, Kunovice, PSČ: 686 04 CZECH REPUBLIC

6.	National Certification Date:	March 11, 1998
7.	CAA Application Date:	
8.	CAA Recommendation Date:	
9.	EASA Type Certification Date:	19 August 2005

FII. Certification Basis

5. Requirements elected to comply

- Reference Date for determining the applicable requirements:
 CAA CZ Type Certificate Data Sheet No
 CAA CZ Certification Basis: -- Airworthiness Requirements: FAR-23, including Amendment 41
- **** * * ***

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None

TCDS EASA.A.026 Issue 34, 14 October 2022	L-410	Page 44 of 57
6. EASA Special Conditions:	None	
7. EASA Exemptions:	None	
8. EASA Equivalent Safety Findings:	None	
9. EASA Environmental Standards:	 L16/I, Part II, Chapter 10 FAR Part 36 	

FIII. Technical Characteristics and Operational Limitations

1. Type Design Def	finition:	B 500 300 N (top specification sheet) L-420		
2. Description:		Powered by t system is per consists of m L-420 with Sp determined for L-420 with An	two turbo formed f ain and port Para or paract mbulanc	er-wing, all-metal design. oprop engines. Control or two pilots. Landing gear nose landing gear. achuting Kit installation is hute droppings. e Kit installation is port of 9 patients.
3. Equipment:		The list of app the Maintena		quipment is shown in nual.
4. Dimensions:				
	Wingspan	19.980 m 19.479 m		with wing tips tanks without wing tip tanks
	Length	14.424 m		
	Height	5.829 m		
	Wing Area	35.18 m ²	,	with wing tips tanks
		34.86 m ²	,	without wing tip tanks
5. Engines:		2		
5.1. Model:		WALTER M 6		
5.1.1.Type Certificate: 5.1.2.Engine Limits		EASA.E.070	(replacir	ng CAA CZ TC No 89-03)
	Maximum continuous power r Maximum power Max. gas generator speed Max. propeller speed Max. ITT	ating:		580 kW 100.5 % 2080 rpm 760°C
	Take-off power rating: Maximum power Max. gas generator speed Max. propeller speed Max. ITT			580 kW 100 % 2080 rpm 735 °C
	Take-off power rating with wa Maximum power Max. gas generator speed Max. propeller speed Max. ITT	ter injection:		580 kW 100 % 2080 rpm 735 °C

**** * ****

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	Maximum take-off power ratin Maximum power Max. gas generator speed Max. propeller speed Max. ITT	g:		595 kW 102 % 2080 rp 780°C	
6. Propellers:		2			
6.1. Model:		V510			
6.1.1.Type	Certificate:		29 (repla	cina 89-0	4, CAA CZ issued)
••	per of blades:	5	(.,
	e of Rotation:	Clockwise	in view of	fliaht dir	ection
6.1.4.Diam		2300 mm		ingrit an	oodon
7. Fluids:		2000 11111			
		05000	T 10007	00	
7.1. Fuel	T1 according to ST SEV 5024 TS 1 according to ST SEV 5024 PL 6 according to ST SEV 5024 PL 7 according to PND 25005 JET A according to ASTMD 1 JET A-1 according to ASTMD PSM 2 according to PN-86/C	24-85, or GC 4-85, or GOS 5-76 5-92 655-89 1655-89, or	DST 1022 ST 10227	27-86, or -86, or Č	
7.2. Oil	Aero Shell Turbo Oil 500 Aero Shell Turbo Oil 555 Aero Shell Turbo Oil 560 Mobil Jet 0 II B3V (Russian production) Exon TO 2380 Castrol 599				
8. Fluid capacities:	:				
8.1. Fuel:	Standard Tank	Total:		1000	kg
		Usable:		991	kg
	Wing Tips Tank	Total:		313.8	kg
		Usable:		305.8	kg
8.2. Oil:	Engine	Maximum:		11,00	Litre
	-	Minimum:		5.50	Litre
9. Air Speeds:					
	Maximum operating limit spe	ed	Vмо	375 km	/h IAS
	Maximum flaps extended spe				
	configuration 42°		VFE	210 km	/h IAS
	Maximum flaps extended spe	ed, take-off		207 km	
	configuration 18° Maneuvering speed		VFE VA	297 km 273 km	
	Maximum landing gear operation	tina speed	VA VLO	297 km	
	Maximum landing gear extend		VLE	297 km	
10. Maximum Operating Altitude 6100 m					
11. All-weather Capability:		and IF	R flights.		for Day and Night VFR
12. Maximum Weight:					
	Maximum taxiing weight Maximum take-off weight Maximum landing weight			6620 kg 6600 kg 6400 kg	g
	Maximum landing weight in ex	ceptional ca	ases	5950 kg	



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TCDS EASA.A.026 Issue 34, 14 October 2022	L-410 Page 46 of 57		
13. Centre of Gravity Range:	Forward c.g. limit 19 % MAC Aft c.g. limit 30 % MAC		
14. Datum:	Datum point is the levelling point No. 2 (LP 2) on the fuselage, located 2.730 m aft of the fuselage nose tip		
15. (reserved)			
16. Levelling Means:	In longitudinal direction, the levelling plane is defined by levelling points No. 3, 5, 6 in spanwise direction by levelling points No. 19L and 19P.		
17. Minimum Flight Crew:	2		
18. Number of seats:	 19 pax 18 pax (L-420 with Sport Parachuting Kit installation) 9 pax. (L-420 with Ambulance Kit installation) 		
19. (reserved)			
20. Baggage / Cargo Compartments	Maximum baggage load		
	 forward baggage compartment 140 kg aft baggage compartment 150 kg Cargo kit 1000 kg 		
21. Wheels and Tyres	Nose wheel K39-1100-7 with tyre 9.00-6 (550 x 225) M4 or 9.00-6/906 TO6-1 - Good Year		
	Main wheel K38-1100-7 with tyre 12.50-10 (720 x 310) M3 or M4 or 29x11,0-10/11OTO1-1 Good Year		



FIV. Operating and Service Instructions

Flic	ıht	Manual

English version: Do-L410-1311.2	Airplane Flight Manual for the Airplane Model L-420
Czech version:	
Do-L410-1311.0	Letová příručka pro letoun L 420

Instructions for continued airworthiness:

1. Maintenance Schedule:

English version:	
Do-L420-1224.2	Maintenance Schedule for the L-420 Aeroplane
Czech version:	
Do-L420-1224.0	Předpis pro údržbu letounu L-420

2. Maintenance Manual:

English version:	
Do-L410-1233.2	Maintenance Manual for the L-420 Aeroplane
Czech version:	
Do-L410-1233.0	Provozně technická příručka pro letoun L-420

3. Album of Production, Operation and Repair Tolerances

English version:	
Do-L420-1231.0	Album of Production, Operation and Repair Tolerancesof the L-420 Aeroplane
Czech version:	
Do-L420-1231.0	Album výrobních, provozních a opravárenských tolerancí L-420

4. Aging aircraft program

English version: Do-L410-1229.2	Aging aircraft program for the L 410 M aeroplane, L 410 UVP aeroplane, L 410 UVP-E aeroplane, L 410 UVP-E9 aeroplane, L 410 UVP-E20 aeroplane, L-420 aeroplane
Czech version:	
Do-L410-1229.0	Příručka pro kontrolu letounů starších 20 let pro typy L 410 M,
	L 410 UVP, L 410 UVP-E, L 410 UVP-E9, L 410 UVP-E20, L-420

5. Structural Repair Manual

English version: Do-L410-2021.2	Airframe Repair Manual L 410 UVP, L 410 UVP-E, L 410 UVP-E9, L 410 UVP-E20, L-420 Aeroplane
Czech version:	
Do-L410-2021.1	Příručka pro opravu draku letounu L-410 UVP, L 410 UVP-E, L 410 UVP-E9, L 410 UVP-E20, L -420

Others Manuals:

1. Wiring Manual

English version:	
Do-L410-1243.2	Wiring Manual for the L-420 Aerplane



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TCDS EASA.A.026 Issue 34, 14 October 2022	L-410	Page 48 of 57
Czech version: Do-L410-1243.0	Album elektroschemat pro letoun L-420	
2. Illustrated Parts Catalogu	le	
English version: Do-L420-2052.2 Czech version:	Illustrated Parts Catalogue for the L-420 Aeroplane	
Do-L420-2052.0	Katalog dílů a montážních jednotek letounu L-420	
Operational Suitability Data	<u>:</u>	
Master Minimum Equipmen	t List (MMEL)	
English version:		
Do-L410-1312.2	Master Minimum Equipment List and Configuration Devia Airplane Model L-420	ition List forthe
Czech version:		
Do-L420-1224.0	Předpis pro údržbu letounu L-420	
Eligible Serial Numbers: 92	2729A, 012735A	

FV. Notes

- 1. This model was originally approved by CAA Czech under Type Certificate No. 98-01 on March 11, 1998.
- 2. EASA TC No. EASA.A.026 for the L-420 model was issued on August 19, 2005.



SECTION G: L 410 NG Type Design

<u>G I. General</u>

1. Data Sheet No:	EASA.A.026	
 Type / Model / Variant Type: Model: 	L-410 L 410 NG	
3. Airworthiness Category:	Commuter	
4. Type Certificate Holder:	Aircraft Industries, a.s.Na Záhonech 1177 686 04 Kunovice CZECH REPUBLIC	
5. Manufacturer:	Aircraft Industries, a.s.Na Záhonech 1177 686 04 Kunovice CZECH REPUBLIC	
6. EASA Type Certification Date:	19 December 2017	

G II. Certification Basis

1. Reference Date for determining the applicable requirements:	December 30, 2014
2. Airworthiness Requirements:	CS-23, incl. Amdt. 4 (see Note G VI. 1)
3. Requirements elected to comply	CS-MCSD-001, Certification Memoranda, Issue 01
4. EASA Special Conditions:	SC 23.0901-01, issue 2: Rate of Water Ingestion
5. EASA Equivalent Safety Findings:	ELOS-CS23.0777-01-Iss. 1: Cockpit Controls ELOS-CS23.0777-02-Iss. 1 Landing Gear Control Handle Position ELOS-CS23.1545-01-Iss. 1: Airspeed Indicator ELOS-CS23.1305-01-Iss. 1: Powerplant instruments ELOS-CS23.1303-01-Iss. 1: Magnetic compass
6. EASA Environmental Standards:	CS-36, Amendment3 CS-34, Amendment 1
7. Operational Suitability Certification Basis:	MMEL: CS-MMEL, Initial Issue Flight Crew Data (FCD) Flight Crew Data (CS-FCD Initial Issue 31 January 2014).



G III. Technical Characteristics and Operational Limitations

1. Type Design Definition:	Refer to TDC-150-E20-CRI-A-05-TI	R-01
	L 410 NG Prototype, S/N 2820 - top drawing No. Y000001N L 410 NG Type design - top drawing No. Y005000N, The Top Drawing number specifies a configuration of the L 410 NG aircraft produced through Y00xxxxN, where xxxx is the Serial Number of the particular aircraft produced starting with 5001.	
2. Description:	 Self-supporting, upper-wing, all-metal design. Powered by two turboprop engines. Control system is performed for two pilots. Landing gear consists of main and nose landing gear. L 410 NG is determined for transport of 15 -19 passengers. L 410 NG with Sport Parachuting kit installed is determined for parachute droppings. L 410 NG with Ambulance kit installed is determined for transport of 9 patients and 3 additional passengers. L 410 NG with Cargo kit installed is determined for transport of 1700 kg of cargo in two containers. L 410 NG with the rear VIP saloon with folding double seats with armrests. L 410 NG with passenger to cargo quick change configuration with foldable seats. Standard - without wing tip tanks. Optional - with wing tip tanks. 	
3. Equipment:	The list of approved equipment is sl the Maintenance Manual.	nown in
4. Dimensions:		
Wingspan	19.980 m	with wing tips tanks
	19.479 m	without wing tip tanks
Length	15.074 m	
Height	5.969 m	
Wing Area	35.18 m ²	with wing tips tanks
	34.86 m ²	without wing tip tanks
 Engines: 5.1. Model: 5.1.1.Type Certificate: 5.1.2.Engine Limits Take-off power rating: 	2 H85-200 BC04 EASA.E.070	
Maximum power	.d	634 kW
Max. gas generator spee Max. propeller speed	20	101.5 % 1950 rpm
Max. properier speed Max. ITT		780 °C



634 kW

101.2 %

770 °C

1950 rpm

Maximum continuous power rating: Maximum power Max. gas generator speed Max. propeller speed Max. ITT

6. Propeller

2

6.1. Model:	AV-725-1-E-C-F-R(W)-A/CFR230-433
6.1.1. Type Certificate:	EASA.P.031
6.1.2. Number of blades:	5
6.1.3. Sense of Rotation:	Clockwise in view of flight direction
6.1.4. Diameter:	2300 mm

7. Fluids:

7.1. Fuel	RT TS-1 PSM 2 T-1 PL-6 PL-7 JET A	according to ASTM D 1655 or DERD 2494 according to ST SEV 5024 or GOST 10227 or CSN 65 6520 according to ST SEV 5024 or GOST 10227 or CSN 65 6520 according to PN 86/C 96026 according to ST SEV 5024 or GOST 10227 according to PND 25-005 76 according to PND 25-005 92 according to ASTM D 1655
	No. 3 Jet Fuel	according to PRC National Standard GB 6537-2018

Mixing of the above shown fuels is permitted.

7.2. Oil	a. AEROSHELL TURBINE O	IL 500 according to MIL L 23699C
	AEROSHELL TURBINE C	OIL 560 according to MIL L 23699C
	b. MOBILE JET OIL II	according to MIL L 23699C

- . MOBILE JET OIL II according to MIL L 2369 BPTO 2380 CASTROL 599 ROYCO TURBINE OIL
- c. B3V according to TU 38 101295 85

Mixing of the above oils of different groups a, b and c is not permitted.

8. Fuel capacities:

Wing Tank	Total capacity (gravity fuelling) Total capacity (pressure fuelling) Total usable fuel (gravity fuelling) Total usable fuel (pressure fuelling)	1870 kg 1700 kg 1854 kg 1684 kg
	Total unusable:	16 kg
Wing Tips Tank	Total wing tip tanks capacity Total usable fuel	394 kg 390 kg
	Total unusable:	4 kg



9. Air Speeds:

9. Air Speed	S:		
	Max. flap operating (exte Max. flap operating (exte Max. spoilers extended s Min. control speed for tak Min. control speed for tak Minimum control speed for Minimum control speed for Minimum control speed for	speed (7,000 kg)Nlence (7,000 kg)Nuting (extended) speed VLO, VInded) speed (flaps 18°) VFO, VInded) speed (flaps 42°) VFO, VIpeedVSPOce-off run, flaps 18°VMCce-off run, flaps 0°VMCor take-off, flaps 18°VMCor take-off, flaps 0°VMCor landingVMC	YO 285 km/h IAS (154 KIAS) YB 292 km/h IAS (157 KIAS) LE 304 km/h IAS (164 KIAS) FE 278 km/h IAS (150 KIAS) FE 230 km/h IAS (150 KIAS) FE 230 km/h IAS (124 KIAS) IL 201 km/h IAS (108 KIAS) G 122 km/h IAS (66 KIAS) G 122 km/h IAS (66 KIAS) CA 143 km/h IAS (77 KIAS) CA 161 km/h IAS (87 KIAS)
TU. Maximum	Operating Altitude	6100 m (20,000 ft)	
11. All-weathe	er Capability:	flights.	for day and night VFR and IFR or intended flights into icing
12. Maximum	Weight:		
Maximum ramp weight Maximum ramp weight Maximum take-off weight Maximum landing weight Maximum zero fuel weigh		t	7,020 kg (15,476 lb) 7,000 kg (15,432 lb) 6,800 kg (14,991 lb)
	- without wing tip tank Maximum zero fuel weigh	S	6,600 kg (14,550 lb)
13. Centre of	- with wing tip tanks Gravity Range:	Forward c.g. limit Aft c.g. limit	6,660 kg (14,683 lb) 19 % MAC 30 % MAC
14. Datum:		Datum point is the levelling po located 2.880 m from the fram	oint No. 2 (LP 2) on the fuselage, ne No. 1.
15. (reserved)	1		
16. Levelling I	Means:		ne levelling is defined by levelling direction by levelling points No.
17. Minimum	Flight Crew:	2	
18. Number of	f passengers:	19	
19. (reserved)			
20. Baggage /	Cargo Compartments	Maximum baggage load - Front baggage compartme - Rear baggage compartme	
21. Wheels ar	nd Tyres		x225 Model 5 Tubeless x310 Model 5 Tubeless



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G IV. Operating and Service Instructions

Flight Manual

Do-L410NG-1210.2 Airplane Flight Manual for the Airplane Model L 410 NG

Instructions for continued airworthiness:

1. Maintenance Schedule:

Do-L410NG-1220.2 Maintenance Schedule for the L410 NG Aeroplane

2. Maintenance Manual:

Do-L410NG-1230.2 Maintenance Manual for the L 410 NG

3. Album of Production, Operation and Repair Tolerances

Do-L410NG-2030.2 Album of Production, Operation and Repair Tolerances of the L 410 NG

4. Structural Repair Manual

Do-L410NG-2020.2 Airframe Repair Manual L 410 NG

5 Inspection Manual

Do-L410NG-2010.2 Inspection Manual for the L 410 NG

Others Manuals:

1. Wiring Manual

Do-L410NG-1240.2 Wiring Manual for the L 410 NG

2. Illustrated Parts Catalogue

Do-L410NG-1250.2 Illustrated Parts Catalogue for the L 410 NG

G V. Operational Suitability Data

Master Minimum Equipment List (MMEL) Do-L410NG-3000.2

Master Minimum Equipment List (MMEL)

Flight Crew Data Do-L410NG-1215.2

Differential Pilot Training Minimum Syllabus for L 410 NG from the L 410 UVP-E20 airplane and ODR and MDR tables.



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G VI. Notes

- The L 410 NG model is developed as a derivative of the L 410 UVP-E20. Certification Basis for changed areas has been upgraded to CS 23 / Amdt. 4, effective July 16, 2015. Based on Part 21.A.101, the following sections of FAR-23 / amendment 41, effective November 26, 1990, have been used: 23.143, 23.345, 23.391, 23.397, 23.399, 23.457, 23.1093 and 23.1419.
- 2. List of EASA approved Flight Manual Supplements for the following kits:
 - a. Cargo kit with cargo restrain system for 1700 kg (Do-L410NG-1210.2 AFM Supplement No. 1, IR, or later approved revisions);
 - Ambulance kit (9 lying patients) (Do-L410NG-1210.2 AFM Supplement No. 2, IR, or later approved revisions);
 - c. Sport parachuting kit (Do-L410NG-1210.2 AFM Supplement No. 3, IR, or later approved revisions);
 - d. Passenger to cargo quick change configuration with foldable seats (Do-L410NG-1210.2 AFM Supplement No. 4, IR, or later approved revisions).
 - e. Rear Saloon (Do-L410NG-1210.2 AFM Supplement No. 9, IR, or later approved revisions).



ADMINISTRATIVE SECTION

- I. Acronyms; N/A
- II. Type Certificate Holder Record (most recent first);

Aircraft Industries, a.s

Na Záhonech 1177 686 04 Kunovice CZECH REPUBLIC

LETECKÉ ZÁVODY a.s. 686 04 Kunovice 1177 CZECH REPUBLIC

LET, a.s. 686 04 Kunovice 1177 CZECH REPUBLIC

LET, n.p. 686 04 Kunovice 1177 CZECH REPUBLIC



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III. Change Record:

Issue	Date	Changes
1	February 4, 2005	Initial Issue
2	August 19, 2005	Editorial changes
3	September 2005	Editorial changes
4	October 24, 2005	Editorial changes
5	May 17, 2006	Change in address of TC holder
6	February 22, 2007	Incorporation of L 410 UVP-E20 CARGO
7	March 28, 2007	Addition of L - 410 M Turbolet, L - 410 UVP - Turbolet, L - 410 UVP-E, L 410 UVP-E9, L 410 UVP-LW, L 410 UVP-E-LW
8	June 22, 2007	Clarification of approved type design for L-410 M Turbolet, L-410 UVP Turbolet, L - 410 UVP-E, L 410 UVP-E9, L 410 UVP-LW and L 410 UVP-E- LW by reference to Serial number and date
9	November 23, 2007	Removal of L - 410 UVP-LW - 810726; 810727 from SECTION B V. Notes, Paragraph 11, these aircraft being declared as government aircraft under Commission Regulation (EC) 1592/2002 Article 1.2.
10	30 May 2008	Updated requirements concerning safety modifications of the L- 410 M Turbolet, L-410 UVP-Turbolet, L- 410 UVP-E , L 410 UVP-E9, L-410 UVP-LW and L 410 UVP-E-LW models
11	May 7 2009	Addition of Notes about Installation Approval of Universal EFI-890R Dual Electronic Flight Displays and Madras FA 2200 Flight Data Recorder on L 410 UVP-E20 and L 420 aircraft models
12	June 8, 2010	Addition of L410 UVP-E s/n 902507 to list of aircraft meeting the TCDS design standard. Removal of table of effective pages and repetition of issue Numbers
13	June 28, 2010	Addition of L410 UVP-E s/n 902506 to list of aircraft meeting the TCDS design standard. Reformatting in new standard EASA TCDS style
14	March 1, 2011	Addition of ageing aircraft programme details.
15	September 12, 2012	Correction of the marking error of nose and main wheel. Addition of Sport Parachuting kit. Removal of fuel heater from type design of the airplane L410UVP-E20 and L-420 manufactured after August 12/09. Addition of Aging aircraft program in Czech and Russian language. Addition of L410 UVP-E20 Flight Manual with Russian marking and placards.
16	June 5, 2013	Addition of the GE H80-200 engine with AV-725 propeller for L410UVP-E20 airplane; Addition of Ambulance kit. Editorial changes
17	May 12, 2014	Certification Basis of Major Changes added in E.V.5, S/N updated in all sections.
18	May 13, 2015	Refer to sections ()III.5. and ()III.6: References to EASA Engine Type Certificate Data Sheets corrected. TDC-199-E20 and appropriate document Numbers added.
19	October 22, 2015	Range of Serial Numbers in section E IV. Updated
20	December 18, 2015	OSD (MMEL) data added to Sections C, D, E; renumbering.
21	February 7, 2017	Addition of L410 UVP-E20 s/n 882101 to list of aircraft meeting the TCDS design standard (Section E IV. Point 11).
22	August 11, 2017	Eligible s/n updated, Service Bulletins for aircraft conversion listed, List of manuals updated. Section E. IV point 3 deleted, Editorial changes
23	September 26, 2017	Editorial changes; Production outside EU (Russia) mentioned in Section E VI.
24	December 19, 2017	Model L 410 NG added in section G. Note to eligible Serial Numbers for L 410 UVP-E20 was added.
25	May 7, 2018	Eligible s/n updated in Section E. IV point 11
26	August 22, 2018	Editorial changes in sections B V.6, B V.8, E VI., G II.6 and G VI.
27	February 25, 2019	Editorial changes, correction of typos in sections A V., B V., C IV, V, D IV., E IV, VI, G IV., V.
28	May 25, 2019	Editorial change in section G VI, item 3
29	July 15 2019	Information added to L410 UVP E20 Section E. Section 3.Equipment for all aircraft updated to read "The list of approved equipment is shown in the Maintenance Manual"
30	September 25 2019	Section G.VI note 3 text revised.



31	28 August 2020	 EIII Section 2 VIP and Pax cargo quick change added GIII Section 2 L 410 NG with Sport Parachuting kit L 410 NG with Ambulance kit. L 410 NG with Cargo kit L 410 NG with the rear VIP saloon. L 410 NG with passenger to cargo quick change. Standard - without wing tip tanks. Optional - with wing tip tanks. Are added. G.VI Notes note e added.
32	24 September 2020	OSD - FCD certification basis and FCD syllabuses for L 410 UVP-E20 and L 410 NG added
33	19 November 2020	Page 17 item 1 eligible Serial numbers Serial 811240 corrected to 8 <u>4</u> 1240 in line 5
34	14 October 2022	 Add new fuel type (No. 3 Jet Fuel) for L 410 UVP-E20 and L 410 NG. Manuals in Operating and Service Instructions sections were divided to ICA and others manuals for all models. Editorial corrections.

