

European Aviation Safety Agency

EASA

SUPPLEMENTAL TYPE-CERTIFICATE DATA SHEET

EASA 10015031

Do28-D2

Turbine Conversion under EASA STC 10015031 (Do28-G92)

Gomolzig Flugzeug- und Machinenbau GmbH

Eisenwerkstr. 9 D-58332 Schwelm Federal Republic of Germany

For models: Do28-D2

Issue 03: 30 Nov 2010

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<u>Note</u>

This Supplemental Type Certificate Data Sheet is supplemental to the TCDS for the basic aircraft Do 28 (TCDS EASA.A.360). Any Paragraph not included in this STCDS is unchanged from the basic aircraft TCDS

SECTION A: DO28-D2 (DO28-G92-A-1900)

Α.	. <u>General</u>	
1.	Data Sheet No.:	10015031
2.	a) Type:b) Model:c) Variant:d) Version (STC):	Do28 Do28-D2 Do28-D2 G92-A-1900
3. 4.	Airworthiness Category: a) Type Certificate Holder	Normal RUAG Aerospace Services GmbH P.O.Box 1253 D-82231 Wessling Federal Republic of Germany
	 b) Supplemental Type Certificate Holder 	GOMOLZIG Flugzeug- und Maschinenbau GmbH Eisenwerkstr. 9 D-58332 Schwelm Federal Republic of Germany
5.	Manufacturer of STC:	GOMOLZIG Flugzeug- und Maschinenbau GmbH POA Certificate holder No: DE.21G. Eisenwerkstr. 9 D-58332 Schwelm Federal Republic of Germany
6.	Certification Application Date:	25.10.1995
7.	(Reserved) National Certifying Authority	
8.	(Reserved) National Authority Type Certificate	

Authority Type Certificate

A.II. EASA Certification Basis

- 1. Reference Date for determining the applicable 25.10.1995 requirements:
- 2. Airworthiness Requirements: Part 23 of Federal Aviation Regulations dated 1. February 1965, Amendment 23-1 thru 23-38
- 3. Special Conditions: None

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3.	Exemptions:	None		
4.	Deviations:	None		
5.	Equivalent Safety Findings:	None		
6.	Requirements elected to comply:	None		
7.	Environmental Standards:	Noise:	ICAO Annex 16, Volume I (further details refer to EAS database)	
		Emission:	ICAO Annex 16, Volume II, I	art II
8.	(Reserved) Additional National Requirements:			

A.III. <u>Technical Characteristics and Operational Limitations</u>

1.	Type Design Definition:	Master Drawing List G92
2.	Description:	Twin-turbine engine, aluminium construction, high wing monoplane with conventional tail and tail wheel
3.	Equipment:	Refer to AFM
4.	Dimensions:	Refer to AFM
5.	Engine:	Two (2x)
	5.1.1 Model:	WALTER M 601 D-2 turboprop engines
	5.1.2 Type Certificate:	EASA.E.070
	5.1.3 Limitations:	According to AFM
6.	(reserved)	
7.	Propeller:	Two (2x)
	7.1 Model:	AVIA PROPELLER V508 D-2-99A
	7.2 Type Certificate:	EASA.P.028
	7.3 Number of blades:	3
	7.4 Diameter:	Diameter 2500 mm
	7.5 Sense of Rotation:	Right-Hand Tractor
8.	Fluids:	
	8.1 Fuel:	Commercial Kerosene Jet A-1
	8.2 Oil:	Refer to AFM
	8.3 Coolant:	None
9.	Fluid capacities:	
	9.1 Fuel:	Two Main Fuel Tanks

^{9. (}Reserved)

9.2 Oil:9.3 Coolant system capacity:	Total: Usable: One Engine O Maximum: Total Oil in Tai None	2 x 452 Litres each, tota 2 x 447 Litres each, tota il Tank 7,0 Litres, min. 5,5 Litres nk and in Engine max. 11	l 894 Litres
10. Air Speeds:	Design Manoe	evring Speed V _A :	129 KCAS
	Flap Extended	I Speed V _{FE} :	110 KCAS
	Maximum Ope	erating Speed V _{MO}	155 KCAS
	Minimum Cont	trol Speed V _{MC}	65 KCAS
	Min. Safety Sp	beed, Single Engine V_{SSE}	88 KCAS
11. Maximum Operating Altitude:	20000 ft		
12. All-weather Operations Capability:	Refer to AFM		
13. Maximum Weights:	Take-Off:	3 850 kg	
	Landing Mass	: 3 650 kg	
	Empty Mass:	refer to AFM	
	Maximum Mas operation only	sses during parachute jun :	nper drop
	Take-Off:	4 015 kg	
	Landing Mass	: 3 650 kg	
	Empty Mass:	refer to AFM	
14. Centre of Gravity Range:	Aft Limit: 4.036 m (158, kg (8,497 lbs)	9 inches) aft of reference or less.	e datum at 3850
	kg (8,865 lbs), 3,776 m (148. kg (8,497 lbs),	inches) aft of reference of 7 inches) aft of reference 9 inches) aft of reference	e datum at 3,850
15. Datum:	No Changes to	o Basic Do 28 D-2	
16. Control surface deflections:	No Changes to	o Basic Do 28 D-2	

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17. Levelling Means:	No Changes to Basic Do 28 D-2	
18. Minimum Flight Crew:	1	
19. Maximum Passenger Seating Capacity:	14 For Parachute Jumper Drop Operation:	15
20. Baggage/Cargo Compartments:	Max. Weight in the Rear Baggage Compartmen (220 lbs)	it: 100 kg
21. Wheels and Tyres:	No Changes to Basic Do 28 D-2	
22. (Reserved):		

A.IV. Operating and Service Instructions

- Flight Manual: DORNIER Do 28G92 Airplane Flight Manual issued for S/N 4134, approved November 1996 (HgCAA), including approved AFM-Supplements (HgCAA), or later approved Revisions
 Technical Manual: DORNIER Do 28D-2 Maintenance Manual WALTER Maintenance Manual for M 601 D-2 engine AVIA PROPELLER Operation and Installation Manual – V 508 D-2
- 3. Repair Manual: None
- 4. Manual for Operation: None
- 5. Spare Parts Catalogue: DORNIER Do 28D-2 Illustrated Part Breakdown
- 6. Table of Dimensions, Limits and Clearances: Refer to AFM
- 7. Instruments and aggregates: None

A.V. Notes:

None

SECTION B: DO28-D2 (DO28-G92-EF-A-1900)

B.I.

. <u>General</u>	
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1. Data Sheet No.:		10015031
2.	a) Type:	Do28
	b) Model:	Do28-D2
	c) Variant:	Do28-D2
	d) Version (STC):	G92-EF-A-1900
3	Airworthiness Category:	Normal
	a) Type Certificate Holder	RUAG Aerospace Services GmbH
4.	a) Type Certificate Holder	P.O.Box 1253
		D-82231 Wessling
		Federal Republic of Germany
		rederal Republic of Germany
	b) Supplemental Type	GOMOLZIG Flugzeug- und Maschinenbau GmbH
	Certificate Holder	Eisenwerkstr. 9
		D-58332 Schwelm
		Federal Republic of Germany
5.	Manufacturer of STC:	GOMOLZIG Flugzeug- und Maschinenbau GmbH
		POA Certificate holder No: DE.21G.
		Eisenwerkstr. 9
		D-58332 Schwelm
		Federal Republic of Germany
6.	Certification Application	25.10.1995
	Date:	
7.	(Reserved) National Certifying Authority	
8.	(Reserved) National Authority Type Certificate	

B.II. EASA Certification Basis

Date:

- 1. Reference Date for determining the applicable 25.10.1995 requirements:
- 2. Airworthiness Requirements: Part 23 of Federal Aviation Regulations dated 1. February 1965, Amendment 23-1 thru 23-38
- 3. Special Conditions: None

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3.	Exemptions:	None		
4.	Deviations:	None		
5.	Equivalent Safety Findings:	None		
6.	Requirements elected to comply:	None		
7.	Environmental Standards:	Noise: Emission:	ICAO Annex 16, Volume I (further details refer to EAS database) ICAO Annex 16, Volume II, F	
8.	(Reserved) Additional National Requirements:		icao annex io, volume ii, i	

9. (Reserved)

B.III. <u>Technical Characteristics and Operational Limitations</u>

1.	Type Design Definition:	Master Drawing List G92
2.	Description:	Twin-turbine engine, aluminium construction, high wing monoplane with conventional tail and tail wheel
3.	Equipment:	Refer to AFM
4.	Dimensions:	Refer to AFM
5.	Engine:	Two (2x)
	5.1.1 Model:	WALTER M 601 D-2 turboprop engines
	5.1.2 Type Certificate:	EASA.E.070
	5.1.3 Limitations:	According to AFM
6.	(reserved)	
7.	Propeller:	Two (2x)
	7.1 Model:	AVIA PROPELLER V508 D-2-99A
	7.2 Type Certificate:	EASA.P.028
	7.3 Number of blades:	3
	7.4 Diameter:	Diameter 2500 mm
	7.5 Sense of Rotation:	Right-Hand Tractor
8.	Fluids:	
	8.1 Fuel:	Commercial Kerosene Jet A-1
	8.2 Oil:	Refer to AFM
	8.3 Coolant:	None
9.	Fluid capacities:	
	9.1 Fuel:	Two Main Fuel Tanks

	Usable: Two external F Total:	2 x 452 Litres each, tota 2 x 447 Litres each, tota uel Tanks 2x 246 Litres each, total 2x 236 Litres each, total	ll 894 Litres 492 Litres
9.2 Oil:9.3 Coolant system		l Tank 7,0 Litres, min. 5,5 Litres ik and in Engine max. 11	
capacity:			
10. Air Speeds:	Design Manoev	vring Speed V _A :	129 KCAS
	Flap Extended	Speed V _{FE} :	110 KCAS
	Maximum Oper	rating Speed V_{MO}	155 KCAS
	Minimum Contr	rol Speed V _{MC}	65 KCAS
	Min. Safety Spe	eed, Single Engine V_{SSE}	88 KCAS
11. Maximum Operating Altitude:	20000 ft		
12. All-weather Operations Capability:	Refer to AFM		
13. Maximum Weights:	Take-Off:	3 850 kg	
	Landing Mass:	3 650 kg	
	Empty Mass:	refer to AFM	
	Maximum Mass operation only:	ses during parachute jur	nper drop
	Take-Off:	4 015 kg	
	Landing Mass:	3 650 kg	
	Empty Mass:	refer to AFM	
14. Centre of Gravity Range:	Aft Limit: 4.036 m (158,9 kg (8,497 lbs) c	9 inches) aft of reference or less.	e datum at 3850
	kg (8,865 lbs), 3,776 m (148.7 kg (8,497 lbs),	inches) aft of reference of inches) aft of reference inches) aft of reference	e datum at 3,850

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15. Datum:	No Changes to Basic Do 28 D-2	
16. Control surface deflections:	No Changes to Basic Do 28 D-2	
17. Levelling Means:	No Changes to Basic Do 28 D-2	
18. Minimum Flight Crew:	1	
19. Maximum Passenger	14	
Seating Capacity:	For Parachute Jumper Drop Operation:	15
20. Baggage/Cargo Compartments:	Max. Weight in the Rear Baggage Compartme (220 lbs)	ent: 100 kg
21. Wheels and Tyres:	No Changes to Basic Do 28 D-2	
22. (Reserved):		

B.IV. Operating and Service Instructions

3.	Flight Manual:	DORNIER Do 28G92 Airplane Flight Manual issued for S/N 4134, approved November 1996 (HgCAA), including approved AFM-Supplements (HgCAA), or later approved Revisions
4.	Technical Manual:	DORNIER Do 28D-2 Maintenance Manual WALTER Maintenance Manual for M 601 D-2 engine AVIA PROPELLER Operation and Installation Manual – V 508 D-2

- 3. Repair Manual: None
- 4. Manual for Operation: None
- 5. Spare Parts Catalogue: DORNIER Do 28D-2 Illustrated Part Breakdown
- 6. Table of Dimensions, Limits and Clearances: Refer to AFM
- 7. Instruments and aggregates: None

B.V. Notes:

External fuel tanks have to be removed for parachute jumper drop operation.

SECTION C: DO28-D2 (DO28-G92-A-1950)

C.I.

<u>General</u>		

1.	Data Sheet No.:	10015031
2.	a) Type:b) Model:c) Variant:d) Version (STC):	Do28 Do28-D2 Do28-D2 G92-A-1950
3.	Airworthiness Category:	Normal
4.	a) Type Certificate Holder	RUAG Aerospace Services GmbH P.O.Box 1253 D-82231 Wessling Federal Republic of Germany
	 b) Supplemental Type Certificate Holder 	GOMOLZIG Flugzeug- und Maschinenbau GmbH Eisenwerkstr. 9 D-58332 Schwelm Federal Republic of Germany
5.	Manufacturer of STC:	GOMOLZIG Flugzeug- und Maschinenbau GmbH POA Certificate holder No: DE.21G. Eisenwerkstr. 9 D-58332 Schwelm Federal Republic of Germany
6.	Certification Application Date:	25.10.1995
7.	(Reserved) National Certifying Authority	
8.	(Reserved) National Authority Type Certificate	

C.II. EASA Certification Basis

Date:

1.	Reference Date for determining the applicable requirements:	25.10.1995
2.	Airworthiness Requirements:	Part 23 of Federal Aviation Regulations dated 1. February 1965, Amendment 23-1 thru 23-38
3.	Special Conditions:	None

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3.	Exemptions:	None	
4.	Deviations:	None	
5.	Equivalent Safety Findings:	None	
6.	Requirements elected to comply:	None	
7.	Environmental Standards:	Noise: Emission:	ICAO Annex 16, Volume I (further details refer to EASA noise database) ICAO Annex 16, Volume II, Part II
8.	(Reserved) Additional National Requirements:		

9. (Reserved)

C.III. Technical Characteristics and Operational Limitations

1.	Type Design Definition:	Master Drawing List G92
2.	Description:	Twin-turbine engine, aluminium construction, high wing monoplane with conventional tail and tail wheel
3.	Equipment:	Refer to AFM
4.	Dimensions:	Refer to AFM
5.	Engine:	Two (2x)
	5.1.1 Model:	WALTER M 601 D-2 turboprop engines
	5.1.2 Type Certificate:	EASA.E.070
	5.1.3 Limitations:	According to AFM
6.	(reserved)	
7.	Propeller:	Two (2x)
	7.1 Model:	AVIA PROPELLER V508 D-2-99A
	7.2 Type Certificate:	EASA.P.028
	7.3 Number of blades:	3
	7.4 Diameter:	Diameter 2500 mm
	7.5 Sense of Rotation:	Right-Hand Tractor
8.	Fluids:	
	8.1 Fuel:	Commercial Kerosene Jet A-1
	8.2 Oil:	Refer to AFM
	8.3 Coolant:	None
9.	Fluid capacities:	
	9.1 Fuel:	Two Main Fuel Tanks

	Total: Usable:	2 x 452 Litres each, tota 2 x 447 Litres each, tota	
9.2 Oil:	One Engine C Maximum: Total Oil in Ta	Dil Tank 7,0 Litres, min. 5,5 Litres Ink and in Engine max. 1	
9.3 Coolant system capacity:	None		
10. Air Speeds:	Design Manoe	evring Speed V _A :	129 KCAS
	Flap Extended	d Speed V _{FE} :	110 KCAS
	Maximum Ope	erating Speed V_{MO}	155 KCAS
	Minimum Con	trol Speed V _{MC}	65 KCAS
	Min. Safety S	peed, Single Engine V_{SSE}	88 KCAS
11. Maximum Operating Altitude:	20000 ft		
12. All-weather Operations Capability:	Refer to AFM		
13. Maximum Weights:	Take-Off:	3 850 kg	
	Landing Mass	:: 3 650 kg	
	Empty Mass:	refer to AFM	l
	Maximum Mas	sses during parachute jur /:	nper drop
	Take-Off:	4 015 kg	
	Landing Mass	:: 3 650 kg	
	Empty Mass:	refer to AFM	
14. Centre of Gravity Range:	Aft Limit: 4.036 m (158 kg (8,497 lbs)	,9 inches) aft of referend or less.	ce datum at 3850
	(8,865 lbs), 3,776 m (148 kg (8,497 lbs)	inches) aft of reference of .7 inches) aft of reference of .7 inches) aft of reference . .9 inches) aft of reference .	e datum at 3,850
15. Datum:	No Changes t	o Basic Do 28 D-2	
16. Control surface deflections:	. Control surface No Changes to Basic Do 28 D-2		

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17. Levelling Means:	No Changes to Basic Do 28 D-2	
18. Minimum Flight Crew:	1	
19. Maximum Passenger Seating Capacity:	14 For Parachute Jumper Drop Operation:	15
20. Baggage/Cargo Compartments:	Max. Weight in the Rear Baggage Compartme lbs)	ent: 100 kg (220
21. Wheels and Tyres:	No Changes to Basic Do 28 D-2	
22. (Reserved):		

C.IV. Operating and Service Instructions

- Flight Manual: DORNIER Do 28G92 Airplane Flight Manual approved November 1996 (HgCAA), including approved AFM-Supplements (HgCAA), or later approved Revisions
 Technical Manual: DORNIER Do 28D-2 Maintenance Manual WALTER Maintenance Manual for M 601 D-2 engine AVIA PROPELLER Operation and Installation Manual V 508 D-2
- 3. Repair Manual: None
- 4. Manual for Operation: None
- 5. Spare Parts Catalogue: DORNIER Do 28D-2 Illustrated Part Breakdown
- 6. Table of Dimensions, Limits and Clearances: Refer to AFM
- 7. Instruments and aggregates: None

C.V. Notes:

None

SECTION D: DO28-D2 (DO28-G92-EF-A-1950)

D.I.

<u>General</u>		
<u>General</u>		

1. 2.	Data Sheet No.: a) Type: b) Model:	10015031 Do28 Do28-D2
	c) Variant:	Do28-D2
	d) Version (STC):	G92-EF-A-1950
3.	Airworthiness Category:	Normal
4.	a) Type Certificate Holder	RUAG Aerospace Services GmbH P.O.Box 1253
		D-82231 Wessling
		Federal Republic of Germany
	b) Supplemental Type	GOMOLZIG Flugzeug- und Maschinenbau GmbH
	Certificate Holder	Eisenwerkstr. 9
		D-58332 Schwelm Federal Republic of Germany
5.	Manufacturer of STC:	GOMOLZIG Flugzeug- und Maschinenbau GmbH
		POA Certificate holder No: DE.21G.
		Eisenwerkstr. 9
		D-58332 Schwelm Federal Republic of Germany
6	Certification Application	25.10.1995
0.	Date:	25.10.1555
7.	(Reserved) National Certifying Authority	
8.	(Reserved) National Authority Type Certificate	

D.II. EASA Certification Basis

Date:

- 1. Reference Date for determining the applicable 25.10.1995 requirements:
- 2. Airworthiness Requirements: Part 23 of Federal Aviation Regulations dated 1. February 1965, Amendment 23-1 thru 23-38
- 3. Special Conditions: None

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3.	Exemptions:	None		
4.	Deviations:	None		
5.	Equivalent Safety Findings:	None		
6.	Requirements elected to comply:	None		
7.	Environmental Standards:	Noise:	ICAO Annex 16, Volume I (further details refer to EA database)	
		Emission:	ICAO Annex 16, Volume II,	Part II
8.	(Reserved) Additional National Requirements:			

9. (Reserved)

D.III. <u>Technical Characteristics and Operational Limitations</u>

1.	Type Design Definition:	Master Drawing List G92
2.	Description:	Twin-turbine engine, aluminium construction, high wing monoplane with conventional tail and tail wheel
3.	Equipment:	Refer to AFM
4.	Dimensions:	Refer to AFM
5.	Engine:	Two (2x)
	5.1.1 Model:	WALTER M 601 D-2 turboprop engines
	5.1.2 Type Certificate:	EASA.E.070
	5.1.3 Limitations:	According to AFM
6.	(reserved)	
7.	Propeller:	Two (2x)
	7.1 Model:	AVIA PROPELLER V508 D-2-99A
	7.2 Type Certificate:	EASA.P.028
	7.3 Number of blades:	3
	7.4 Diameter:	Diameter 2500 mm
	7.5 Sense of Rotation:	Right-Hand Tractor
8.	Fluids:	
	8.1 Fuel:	Commercial Kerosene Jet A-1
	8.2 Oil:	Refer to AFM
	8.3 Coolant:	None
9.	Fluid capacities:	
	9.1 Fuel:	Two Main Fuel Tanks

Total: Usable: Two external I Total: Usable:	2 x 452 Litres each, tot 2 x 447 Litres each, tot Fuel Tanks 2x 246 Litres each, tota 2x 236 Litres each, tota	al 894 Litres al 492 Litres
Maximum:	7,0 Litres, min. 5,5 Litre	
None		
Flap Extended Maximum Ope Minimum Con	d Speed V_{FE} : erating Speed V_{MO} trol Speed V_{MC}	129 KCAS 110 KCAS 155 KCAS 65 KCAS 88 KCAS
20000 ft		
Refer to AFM		
Empty Mass: Maximum Mas only: Take-Off:	refer to AFN sses during parachute ju 4 015 kg	
•	C C	1
Aft Limit: 4.036 m (158 (8,497 lbs) or Forward Limi 3,81 m (148.7 (8,865 lbs), 3,776 m (148 (8,497 lbs), 3,656 m (152	,9 inches) aft of referent less. t: inches) aft of reference .7 inches) aft of referen .9 inches) aft of referen	nce datum at 3850 kg datum at 4,015 kg nce datum at 3,850 kg
	Usable: Two external I Total: Usable: One Engine C Maximum: Total Oil in Ta None Design Manoe Flap Extended Maximum Ope Minimum Con Min. Safety Sp 20000 ft Refer to AFM Take-Off: Landing Mass Empty Mass: Maximum Mass only: Take-Off: Landing Mass Empty Mass: Mass Empty Mass: Mass Empty Mass Empty Mass Empty Mass Empty Mass Empty Mass (8,497 lbs), or Forward Limi 3,81 m (148.7 (8,865 lbs), 3,776 m (148	Usable: 2 x 447 Litres each, tot Two external Fuel Tanks Total: 2x 246 Litres each, tota Usable: 2x 236 Litres each, tota One Engine Oil Tank Maximum: 7,0 Litres, min. 5,5 Litre Total Oil in Tank and in Engine max. 1 None Design Manoevring Speed V_A : Flap Extended Speed V_{FE} : Maximum Operating Speed V_{MO} Minimum Control Speed V_{MC} Min. Safety Speed, Single Engine V_{SS} 20000 ft Refer to AFM Take-Off: 3 850 kg Landing Mass: 3 650 kg Empty Mass: refer to AFM Maximum Masses during parachute ju only: Take-Off: 4 015 kg Landing Mass: 3 650 kg Empty Mass: refer to AFM Maximum Masses during parachute ju only: Take-Off: 4 015 kg Landing Mass: 3 650 kg Empty Mass: refer to AFM Maximum Masses during parachute ju only: Take-Off: 4 015 kg Landing Mass: 3 650 kg Empty Mass: refer to AFM Aft Limit: 4.036 m (158,9 inches) aft of reference (8,497 lbs) or less. Forward Limit: 3,776 m (148.7 inches) aft of reference

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15. Datum:	No Changes to Basic Do 28 D-2	
16. Control surface deflections:	No Changes to Basic Do 28 D-2	
17. Levelling Means:	No Changes to Basic Do 28 D-2	
18. Minimum Flight Crew:	1	
19. Maximum Passenger	14	
Seating Capacity:	For Parachute Jumper Drop Operation:	15
20. Baggage/Cargo Compartments:	Max. Weight in the Rear Baggage Compartme	ent: 100 kg (220 lbs)
21. Wheels and Tyres:	No Changes to Basic Do 28 D-2	
22. (Reserved):		

D.IV. Operating and Service Instructions

7. Flight Manual:	DORNIER Do 28G92 Airplane Flight Manual approved November 1996 (HgCAA), including approved AFM-Supplements (HgCAA), or later approved Revisions
8. Technical Manual:	DORNIER Do 28D-2 Maintenance Manual WALTER Maintenance Manual for M 601 D-2 engine AVIA PROPELLER Operation and Installation Manual – V 508 D-2

- 3. Repair Manual: None
- 4. Manual for Operation: None
- 5. Spare Parts Catalogue: DORNIER Do 28D-2 Illustrated Part Breakdown
- 6. Table of Dimensions, Limits and Clearances: Refer to AFM
- 7. Instruments and aggregates: None

D.V. Notes:

External fuel tanks have to be removed for parachute jumper drop operation.

SECTION E: DO28-D2 (DO28-G92-B-1800)

E.I. General

1. Da	ta Sheet No.:	10015031
2. a)	Туре:	Do28
b)	Model:	Do28-D2
c)	Variant:	Do28-D2
d)	Version (STC):	G92-B-1800

- Airworthiness Category: Normal
 a) Type Certificate Holder RUAG Aerospace Services GmbH P.O.Box 1253 D-82231 Wessling Federal Republic of Germany
 - b) Supplemental Type GOMOLZIG Flugzeug- und Maschinenbau GmbH
 Certificate Holder Eisenwerkstr. 9
 D-58332 Schwelm
 - Federal Republic of Germany
- 5. Manufacturer of STC: GOMOLZIG Flugzeug- und Maschinenbau GmbH
 - POA Certificate holder No: DE.21G.

28.07.2010

Eisenwerkstr. 9 D-58332 Schwelm

Federal Republic of Germany

- 6. Certification Application Date:
- 7. (Reserved) National Certifying Authority
- (Reserved) National Authority Type Certificate Date:

E.II. EASA Certification Basis

1.	Reference Date for determining the applicable requirements:	28.07.2010
2.	Airworthiness Requirements:	Part 23 of Federal Aviation Regulations dated 1. February 1965, Amendment 23-1 thru 23-38
3.	Special Conditions:	None
3.	Exemptions:	None

- Deviations: None
 Equivalent Safety Findings: None
 Requirements elected to comply:
 Environmental Standards: Noise: ICAO Annex 16, Volume I (further details refer to EASA noise database) Emission: ICAO Annex 16, Volume II, Part II
 (Reserved) Additional
- 8. (Reserved) Additional National Requirements:
- 9. (Reserved)

E.III. Technical Characteristics and Operational Limitations

1.	Type Design Definition:	Master Drawing List G92
2.	Description:	Twin-turbine engine, aluminium construction, high wing monoplane with conventional tail and tail wheel
3.	Equipment:	Refer to AFM
4.	Dimensions:	Refer to AFM
5.	Engine:	Two (2x)
	5.1.1 Model:	WALTER M 601 D-2 turboprop engines
	5.1.2 Type Certificate:	EASA.E.070
	5.1.3 Limitations:	According to AFM and AFM-Supplement Modification 2023625-1800
6.	(reserved)	
7.	Propeller:	Two (2x)
	7.1 Model:	AVIA PROPELLER V508 D-2-99B
	7.2 Type Certificate:	EASA.P.028
	7.3 Number of blades:	3
	7.4 Diameter:	Diameter 2500 mm
	7.5 Sense of Rotation:	Right-Hand Tractor
8.	Fluids:	
	8.1 Fuel:	Commercial Kerosene Jet A-1
	8.2 Oil:	Refer to AFM
	8.3 Coolant:	None
9.	Fluid capacities:	
	9.1 Fuel:	Two Main Fuel Tanks
		Total:2 x 452 Litres each, total 904 Litres

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9.2 Oil:	One Engine Oil	2 x 447 Litres each, tota Tank ,0 Litres, min. 5,5 Litre	
		and in Engine max. 1	
9.3 Coolant system capacity:	None		
10. Air Speeds:	Design Manoevi	ring Speed V _A :	129 KCAS
	Flap Extended S	Speed V _{FE} :	110 KCAS
	Maximum Opera	ating Speed V_{MO}	155 KCAS
	Minimum Contro	ol Speed V _{MC}	65 KCAS
	Min. Safety Spe	ed, Single Engine V_{SSE}	88 KCAS
11. Maximum Operating Altitude:	20000 ft		
12. All-weather Operations Capability:	Refer to AFM		
13. Maximum Weights:	Take-Off:	3 850 kg	
	Landing Mass:	3 650 kg	
	Empty Mass:	refer to AFM	1
	Maximum Masso operation only:	es during parachute jui	mper drop
	Take-Off:	4 015 kg	
	Landing Mass:	3 650 kg	
	Empty Mass:	refer to AFM	
14. Centre of Gravity Range:	Aft Limit: 4.036 m (158,9 kg (8,497 lbs) or	inches) aft of referenc less.	e datum at 3850
	kg (8,865 lbs), 3.776 m (148.7	iches) aft of reference (inches) aft of reference inches) aft of reference less.	e datum at 3.850
15. Datum:	No Changes to I	Basic Do 28 D-2	
16. Control surface deflections:	No Changes to I	Basic Do 28 D-2	
17. Levelling Means:	No Changes to I	Basic Do 28 D-2	

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18. Minimum Flight Crew:	1	
19. Maximum Passenger Seating Capacity:	14 For Parachute Jumper Drop Operation:	15
20. Baggage/Cargo Compartments:	Max. Weight in the Rear Baggage Compartme (220 lbs)	ənt: 100 kg
21. Wheels and Tyres:	No Changes to Basic Do 28 D-2	
22. (Reserved):		

E.IV. Operating and Service Instructions

9. Flight Manual:	DORNIER Do 28G92 Airplane Flight Manual approved November 1996 (HgCAA), including approved AFM-Supplements (HgCAA), or later approved Revisions and AFM-Supplement Modification 2023625- 1800
10. Technical Manual:	DORNIER Do 28D-2 Maintenance Manual WALTER Maintenance Manual for M 601 D-2 engine AVIA PROPELLER Operation and Installation Manual – V 508 D-2

- 3. Repair Manual: None
- 4. Manual for Operation: None
- 5. Spare Parts Catalogue: DORNIER Do 28D-2 Illustrated Part Breakdown
- 6. Table of Dimensions, Limits and Clearances: Refer to AFM
- 7. Instruments and aggregates: None

E.V. Notes:

None

SECTION F: DO28-D2 (DO28-G92-EF-B-1800)

F.I.

<u>General</u>		
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1.	Data Sheet No.:	10015031
2.	a) Type:b) Model:c) Variant:d) Version (STC):	Do28 Do28-D2 Do28-D2 G92-EF-B-1800
3.	Airworthiness Category:	Normal
4.	a) Type Certificate Holder	RUAG Aerospace Services GmbH P.O.Box 1253 D-82231 Wessling Federal Republic of Germany
	b) Supplemental Type Certificate Holder	GOMOLZIG Flugzeug- und Maschinenbau GmbH Eisenwerkstr. 9 D-58332 Schwelm Federal Republic of Germany
5.	Manufacturer of STC:	GOMOLZIG Flugzeug- und Maschinenbau GmbH POA Certificate holder No: DE.21G. Eisenwerkstr. 9 D-58332 Schwelm Federal Republic of Germany
6.	Certification Application Date:	28.07.2010
7.	(Reserved) National Certifying Authority	
8.	(Reserved) National	

Authority Type Certificate Date:

F.II. **EASA Certification Basis**

- 1. Reference Date for determining the applicable 28.07.2010 requirements:
- 2. Airworthiness Requirements: Part 23 of Federal Aviation Regulations dated 1. February 1965, Amendment 23-1 thru 23-38
- 3. Special Conditions: None

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3.	Exemptions:	None		
4.	Deviations:	None		
5.	Equivalent Safety Findings:	None		
	Requirements elected to comply:	None		
7.	Environmental Standards:	Noise: Emission:	ICAO Annex 16, Volume I (further details refer to EA database) ICAO Annex 16, Volume II,	
8.	(Reserved) Additional National Requirements:			i uit ii

9. (Reserved)

F.III. Technical Characteristics and Operational Limitations

1. Type Design [Definition: Mas	ter Drawing List G92
2. Description:		n-turbine engine, aluminium construction, high wing poplane with conventional tail and tail wheel
3. Equipment:	Refe	er to AFM
4. Dimensions:	Refe	er to AFM
5. Engine:	Two	(2x)
5.1.1 Model:	WAI	TER M 601 D-2 turboprop engines
5.1.2 Type Co	ertificate: EAS	A.E.070
5.1.3 Limitatio		ording to AFM and AFM-Supplement Modification 3625-1800
6. (reserved)		
7. Propeller:	Two	(2x)
7.1 Model:	AVI	A PROPELLER V508 D-2-99B
7.2 Type Cer	tificate: EAS	A.P.028
7.3 Number of	of blades: 3	
7.4 Diameter:	: Diar	neter 2500 mm
7.5 Sense of	Rotation: Righ	nt-Hand Tractor
8. Fluids:		
8.1 Fuel:	Con	nmercial Kerosene Jet A-1
8.2 Oil:	Refe	er to AFM
8.3 Coolant:	Non	e
9. Fluid capacitie	es:	
9.1 Fuel:	Two	Main Fuel Tanks

	Usable: Two external F Total:	2 x 452 Litres each, tota 2 x 447 Litres each, tota fuel Tanks 2x 246 Litres each, total 2x 236 Litres each, total	ll 894 Litres I 492 Litres
9.2 Oil:9.3 Coolant system		il Tank 7,0 Litres, min. 5,5 Litres nk and in Engine max. 11	
capacity:			
10. Air Speeds:	Design Manoe	vring Speed V _A :	129 KCAS
	Flap Extended	Speed V _{FE} :	110 KCAS
	Maximum Ope	rating Speed V_{MO}	155 KCAS
	Minimum Cont	rol Speed V _{MC}	65 KCAS
	Min. Safety Sp	eed, Single Engine V_{SSE}	88 KCAS
11. Maximum Operating Altitude:	20000 ft		
12. All-weather Operations Capability:	Refer to AFM		
13. Maximum Weights:	Take-Off:	3 850 kg	
	Landing Mass:	3 650 kg	
	Empty Mass:	refer to AFM	
	Maximum Maso operation only:	ses during parachute jur	nper drop
	Take-Off:	4 015 kg	
	Landing Mass:	3 650 kg	
	Empty Mass:	refer to AFM	
14. Centre of Gravity Range:	Aft Limit: 4.036 m (158,9 kg (8,497 lbs) d	9 inches) aft of reference or less.	e datum at 3850
	kg (8,865 lbs), 3,776 m (148.7 kg (8,497 lbs),	inches) aft of reference of 7 inches) aft of reference 9 inches) aft of reference	e datum at 3,850

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15. Datum:	No Changes to Basic Do 28 D-2	
16. Control surface deflections:	No Changes to Basic Do 28 D-2	
17. Levelling Means:	No Changes to Basic Do 28 D-2	
18. Minimum Flight Crew:	1	
19. Maximum Passenger	14	
Seating Capacity:	For Parachute Jumper Drop Operation:	15
20. Baggage/Cargo Compartments:	Max. Weight in the Rear Baggage Compartme (220 lbs)	ent: 100 kg
21. Wheels and Tyres:	No Changes to Basic Do 28 D-2	
22. (Reserved):		

F.IV. Operating and Service Instructions

11. Flight Manual:	DORNIER Do 28G92 Airplane Flight Manual approved November 1996 (HgCAA), including approved AFM-Supplements (HgCAA), or later approved Revisions and AFM-Supplement Modification 2023625- 1800
12. Technical Manual:	DORNIER Do 28D-2 Maintenance Manual WALTER Maintenance Manual for M 601 D-2 engine AVIA PROPELLER Operation and Installation Manual – V 508 D-2

- 3. Repair Manual: None
- 4. Manual for Operation: None
- 5. Spare Parts Catalogue: DORNIER Do 28D-2 Illustrated Part Breakdown
- 6. Table of Dimensions, Limits and Clearances: Refer to AFM
- 7. Instruments and aggregates: None

F.V. Notes:

External fuel tanks have to be removed for parachute jumper drop operation.

SECTION G: DO28-D2 (DO28-G92-B-1950)

G.I. <u>General</u>

1. Data Sheet No.:	10015031	
2. a) Type:b) Model:c) Variant:d) Version (STC):	Do28 Do28-D2 Do28-D2 G92-B-1950	
3. Airworthiness Category:	Normal	
4. a) Type Certificate Holder	RUAG Aerospace Services GmbH P.O.Box 1253 D-82231 Wessling Federal Republic of Germany	
b) Supplemental Type Certificate Holder	GOMOLZIG Flugzeug- und Maschinenbau GmbH Eisenwerkstr. 9 D-58332 Schwelm Federal Republic of Germany	
5. Manufacturer of STC:	GOMOLZIG Flugzeug- und Maschinenbau GmbH POA Certificate holder No: DE.21G. Eisenwerkstr. 9 D-58332 Schwelm Federal Republic of Germany	
6. Certification Application Date:	28.07.2010	
 (Reserved) National Certifying Authority 		
8. (Reserved) National		

Authority Type Certificate Date:

G.II. EASA Certification Basis

1.	Reference Date for determining the applicable requirements:	28.07.2010
2.	Airworthiness Requirements:	Part 23 of Federal Aviation Regulations dated 1. February 1965, Amendment 23-1 thru 23-38
3.	Special Conditions:	None
3.	Exemptions:	None

- Deviations: None
 Equivalent Safety Findings: None
 Requirements elected to comply:
 Environmental Standards: Noise: ICAO Annex 16, Volume I (further details refer to EASA noise database) Emission: ICAO Annex 16, Volume II, Part II
 (Reserved) Additional
- 8. (Reserved) Additional National Requirements:
- 9. (Reserved)

G.III. Technical Characteristics and Operational Limitations

1.	Type Design Definition:	Master Drawing List G92
2.	Description:	Twin-turbine engine, aluminium construction, high wing monoplane with conventional tail and tail wheel
3.	Equipment:	Refer to AFM
4.	Dimensions:	Refer to AFM
5.	Engine:	Two (2x)
	5.1.1 Model:	WALTER M 601 D-2 turboprop engines
	5.1.2 Type Certificate:	EASA.E.070
	5.1.3 Limitations:	According to AFM and AFM-Supplement Modification 2023625-1950
6.	(reserved)	
7.	Propeller:	Two (2x)
	7.1 Model:	AVIA PROPELLER V508 D-2-99B
	7.2 Type Certificate:	EASA.P.028
	7.3 Number of blades:	3
	7.4 Diameter:	Diameter 2500 mm
	7.5 Sense of Rotation:	Right-Hand Tractor
8.	Fluids:	
	8.1 Fuel:	Commercial Kerosene Jet A-1
	8.2 Oil:	Refer to AFM
	8.3 Coolant:	None
9.	Fluid capacities:	
	9.1 Fuel:	Two Main Fuel Tanks
		Total:2 x 452 Litres each, total 904 Litres

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	Usable:	Usable: 2 x 447 Litres each, total 894 Litres	
9.2 Oil:	Maximum:	One Engine Oil Tank Maximum: 7,0 Litres, min. 5,5 Litres Total Oil in Tank and in Engine max. 11,0 Litres	
9.3 Coolant system capacity:	None		
10. Air Speeds:	Design Mano	evring Speed V _A :	129 KCAS
	Flap Extende	d Speed V _{FE} :	110 KCAS
	Maximum Op	erating Speed V_{MO}	155 KCAS
	Minimum Cor	ntrol Speed V _{MC}	65 KCAS
	Min. Safety S	peed, Single Engine V_{SS}	E 88 KCAS
11. Maximum Operating Altitude:	20000 ft		
12. All-weather Operations Capability:	Refer to AFM		
13. Maximum Weights:	Take-Off:	3 850 kg	
	Landing Mass	s: 3 650 kg	
	Empty Mass:	refer to AFI	M
	Maximum Ma	isses during parachute ju y:	Imper drop
	Take-Off:	4 015 kg	
	Landing Mase	s: 3 650 kg	
	Empty Mass:	refer to AFN	1
14. Centre of Gravity Range:	Aft Limit: 4.036 m (158,9 inches) aft of reference datum at 3850 kg (8,497 lbs) or less.		ce datum at 3850
	kg (8,865 lbs) 3,776 m (148 kg (8,497 lbs)	7 inches) aft of reference), .7 inches) aft of referenc), .9 inches) aft of referenc	ce datum at 3,850
15. Datum:	No Changes to Basic Do 28 D-2		
16. Control surface deflections:	No Changes to Basic Do 28 D-2		
17. Levelling Means:	No Changes to Basic Do 28 D-2		

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18. Minimum Flight Crew:	1	
19. Maximum Passenger Seating Capacity:	14 For Parachute Jumper Drop Operation:	15
20. Baggage/Cargo Compartments:	Max. Weight in the Rear Baggage Compartme (220 lbs)	ent: 100 kg
21. Wheels and Tyres:	No Changes to Basic Do 28 D-2	
22. (Reserved):		

G.IV. Operating and Service Instructions

13. Flight Manual:	DORNIER Do 28G92 Airplane Flight Manual approved November 1996 (HgCAA), including approved AFM-Supplements (HgCAA), or later approved Revisions and AFM-Supplement Modification 2023625- 1950
14. Technical Manual:	DORNIER Do 28D-2 Maintenance Manual WALTER Maintenance Manual for M 601 D-2 engine AVIA PROPELLER Operation and Installation Manual – V 508 D-2

- 3. Repair Manual: None
- 4. Manual for Operation: None
- 5. Spare Parts Catalogue: DORNIER Do 28D-2 Illustrated Part Breakdown
- 6. Table of Dimensions, Limits and Clearances: Refer to AFM
- 7. Instruments and aggregates: None

G.V. Notes:

None

SECTION H: DO28-D2 (DO28-G92-EF-B-1950)

H.I.

1. Data Sheet No.:		10015031		
2.	a) Type:b) Model:c) Variant:d) Version (STC):	Do28 Do28-D2 Do28-D2 G92-EF-B-1950		
3.	Airworthiness Category:	Normal		
4.	a) Type Certificate Holder	RUAG Aerospace Services GmbH P.O.Box 1253 D-82231 Wessling Federal Republic of Germany		
	b) Supplemental Type Certificate Holder	GOMOLZIG Flugzeug- und Maschinenbau GmbH Eisenwerkstr. 9 D-58332 Schwelm Federal Republic of Germany		
5.	Manufacturer of STC:	GOMOLZIG Flugzeug- und Maschinenbau GmbH POA Certificate holder No: DE.21G. Eisenwerkstr. 9 D-58332 Schwelm Federal Republic of Germany		
6.	Certification Application Date:	28.07.2010		
7.	(Reserved) National Certifying Authority			
8	(Reserved) National			

8. (Reserved) National Authority Type Certificate Date:

H.II. EASA Certification Basis

- 1. Reference Date for determining the applicable 28.07.2010 requirements:
- 2. Airworthiness Requirements: Part 23 of Federal Aviation Regulations dated 1. February 1965, Amendment 23-1 thru 23-38
- 3. Special Conditions: None

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3.	Exemptions:	None		
4.	Deviations:	None		
5.	Equivalent Safety Findings:	None		
	Requirements elected to comply:	None		
7.	Environmental Standards:	Noise: Emission:	ICAO Annex 16, Volume I (further details refer to EAS database) ICAO Annex 16, Volume II,	
8.	(Reserved) Additional National Requirements:			i art n

9. (Reserved)

H.III. Technical Characteristics and Operational Limitations

1. Type	Design Definition:	Master Drawing List G92
2. Description:		Twin-turbine engine, aluminium construction, high wing monoplane with conventional tail and tail wheel
3. Equi	pment:	Refer to AFM
4. Dime	ensions:	Refer to AFM
5. Engii	ne:	Two (2x)
5.1.1	Model:	WALTER M 601 D-2 turboprop engines
5.1.2	Type Certificate:	EASA.E.070
5.1.3	Limitations:	According to AFM and AFM-Supplement Modification 2023625-1950
6. (rese	erved)	
7. Prop	eller:	Two (2x)
7.1	Model:	AVIA PROPELLER V508 D-2-99B
7.2	Type Certificate:	EASA.P.028
7.3	Number of blades:	3
7.4	Diameter:	Diameter 2500 mm
7.5	Sense of Rotation:	Right-Hand Tractor
8. Fluid	s:	
8.1	Fuel:	Commercial Kerosene Jet A-1
8.2	Oil:	Refer to AFM
8.3	Coolant:	None
9. Fluid	capacities:	
9.1	Fuel:	Two Main Fuel Tanks

	Total: Usable: Two external F Total: Usable:	2 x 452 Litres each, tota 2 x 447 Litres each, tota uel Tanks 2x 246 Litres each, tota 2x 236 Litres each, tota	ll 894 Litres I 492 Litres
9.2 Oil:9.3 Coolant system		il Tank 7,0 Litres, min. 5,5 Litres nk and in Engine max. 11	
capacity:			
10. Air Speeds:	Design Manoe	vring Speed V _A :	129 KCAS
	Flap Extended Speed V _{FE} :		110 KCAS
	Maximum Ope	rating Speed V _{MO}	155 KCAS
	Minimum Cont	rol Speed V _{MC}	65 KCAS
	Min. Safety Sp	eed, Single Engine V _{SSE}	88 KCAS
11. Maximum Operating Altitude:	20000 ft		
12. All-weather Operations Capability:	Refer to AFM		
13. Maximum Weights:	Take-Off:	3 850 kg	
	Landing Mass:	3 650 kg	
	Empty Mass:	refer to AFM	
	Maximum Masses during parachute jumper drop operation only:		nper drop
	Take-Off:	4 015 kg	
	Landing Mass:	3 650 kg	
	Empty Mass:	refer to AFM	
14. Centre of Gravity Range:	Aft Limit: 4.036 m (158,9 inches) aft of reference datum at 3850 kg (8,497 lbs) or less.		
	Forward Limit: 3,81 m (148.7 inches) aft of reference datum at 4,015 kg (8,865 lbs), 3,776 m (148.7 inches) aft of reference datum at 3,850 kg (8,497 lbs), 3,656 m (152.9 inches) aft of reference datum at 2,750 kg (6,069 lbs) or less.		

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15. Datum:	No Changes to Basic Do 28 D-2	
16. Control surface deflections:	No Changes to Basic Do 28 D-2	
17. Levelling Means:	No Changes to Basic Do 28 D-2	
18. Minimum Flight Crew:	1	
19. Maximum Passenger	14	
Seating Capacity:	For Parachute Jumper Drop Operation:	15
20. Baggage/Cargo Compartments:	Max. Weight in the Rear Baggage Compartme (220 lbs)	ent: 100 kg
21. Wheels and Tyres:	No Changes to Basic Do 28 D-2	
22. (Reserved):		

H.IV. Operating and Service Instructions

15. Flight Manual:	DORNIER Do 28G92 Airplane Flight Manual approved November 1996 (HgCAA), including approved AFM-Supplements (HgCAA), or later approved Revisions and AFM-Supplement Modification 2023625- 1950
16. Technical Manual:	DORNIER Do 28D-2 Maintenance Manual WALTER Maintenance Manual for M 601 D-2 engine AVIA PROPELLER Operation and Installation Manual – V 508 D-2

- 3. Repair Manual: None
- 4. Manual for Operation: None
- 5. Spare Parts Catalogue: DORNIER Do 28D-2 Illustrated Part Breakdown
- 6. Table of Dimensions, Limits and Clearances: Refer to AFM
- 7. Instruments and aggregates: None

H.V. Notes:

External fuel tanks have to be removed for parachute jumper drop operation.

ADMINISTRATIVE SECTION

- I. Acronyms
- II. Type Certificate Holder Record

	Dornier Luftfahrt GmbH LBA Approved Design Organisation Certificate No.: LBA.JA.002 D-82230 Wessling Federal Republic of Germany
01 June 2000 – 27 July 2003:	Fairchild Dornier GmbH LBA DOA Certificate No.: LBA.JA.002 D-82230 Wessling Federal Republic of Germany
Since 28 July 2003:	RUAG Aerospace Services GmbH DOA Certificate No: EASA.21J.038 Oberpfaffenhofen Airfield P.O. Box 1253 D-82231 Wessling Federal Republic of Germany

III. Supplemental Certificate Holder Record

Gomolzig Flugzeug- und Maschinenbau GmbH DOA Certificate No: EASA.21J.274 Eisenwerkstr. 9 D-58332 Schwelm Federal Republic of Germany

IV. Change Record

Issue	Date	Changes	TC Issue No. & Date
Issue 01	19 Feb 2008	Initial Issue	EASA.A.S.03343
Issue 02	04 Apr 2008	Corrections	EASA.A.S.03343
Issue 03	30 Nov 2010	New (S)TCDS Format, adding of new Propeller Types, corrections	10015031
		and adding Manufacturer	30 Nov 2010