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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Note

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)

A.I. General

1. Data Sheet No.: 10015031
2. a) Type: Do28
   b) Model: Do28-D2
   c) Variant: Do28-D2
   d) Version (STC): G92-A-1900
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 Date:

A.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements: 25.10.1995
3. Special Conditions: None
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 EASA noise database)
   Emission: ICAO Annex 16, Volume II, Part II
8. (Reserved) Additional National Requirements:
9. (Reserved)

A.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:
   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:
   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: 2 x 452 Litres each, total 904 Litres
Usable: 2 x 447 Litres each, total 894 Litres

9.2 Oil:
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 Manoeuvring Speed $V_A$ : 129 KCAS
Flap Extended Speed $V_{FE}$ : 110 KCAS
Maximum Operating Speed $V_{MO}$ : 155 KCAS
Minimum Control Speed $V_{MC}$ : 65 KCAS
Min. Safety Speed, 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:
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.

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 Seating Capacity: 14
   For Parachute Jumper Drop Operation: 15

20. Baggage/Cargo Compartments: Max. Weight in the Rear Baggage Compartment: 100 kg (220 lbs)

21. Wheels and Tyres: No Changes to Basic Do 28 D-2

22. (Reserved):

[insert additional rows as applicable]

A.IV. **Operating and Service Instructions**

1. 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


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.  General

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
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 Date:

B.II.  EASA Certification Basis

1. Reference Date for determining the applicable requirements: 25.10.1995
3. Special Conditions: None
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 EASA noise database)
   Emission: ICAO Annex 16, Volume II, Part II
8. (Reserved) Additional National Requirements:
9. (Reserved)

B.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: 2 x 452 Litres each, total 904 Litres
Usable: 2 x 447 Litres each, total 894 Litres
Two external Fuel Tanks
Total: 2x 246 Litres each, total 492 Litres
Usable: 2x 236 Litres each, total 472 Litres

9.2 Oil:
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 Manoeuvring Speed $V_A$: 129 KCAS
Flap Extended Speed $V_{FE}$: 110 KCAS
Maximum Operating Speed $V_{MO}$: 155 KCAS
Minimum Control Speed $V_{MC}$: 65 KCAS
Min. Safety Speed, 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:
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.
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 Seating Capacity: 14
   For Parachute Jumper Drop Operation: 15

20. Baggage/Cargo Compartments: Max. Weight in the Rear Baggage Compartment: 100 kg (220 lbs)

21. Wheels and Tyres: No Changes to Basic Do 28 D-2

22. (Reserved):

[insert additional rows as applicable]

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

   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. General
1. Data Sheet No.: 10015031
2. a) Type: Do28
   b) Model: Do28-D2
   c) Variant: Do28-D2
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 Date:

C.II. EASA Certification Basis
1. Reference Date for determining the applicable requirements: 25.10.1995
   February 1965, Amendment 23-1 thru 23-38
3. Special Conditions: None
3. Exemptions: None
4. Deviations: None
5. Equivalent Safety Findings: None
6. Requirements elected to comply: None
   Emission: ICAO Annex 16, Volume II, Part II
8. (Reserved) Additional National Requirements: None
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: 2 x 452 Litres each, total 904 Litres
Usable: 2 x 447 Litres each, total 894 Litres

9.2 Oil:
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 Manoeuvring Speed $V_A$: 129 KCAS
Flap Extended Speed $V_{FE}$: 110 KCAS
Maximum Operating Speed $V_{MO}$: 155 KCAS
Minimum Control Speed $V_{MC}$: 65 KCAS
Min. Safety Speed, 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:
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.

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 Seating Capacity: 14
   For Parachute Jumper Drop Operation: 15

20. Baggage/Cargo Compartments: Max. Weight in the Rear Baggage Compartment: 100 kg (220 lbs)

21. Wheels and Tyres: No Changes to Basic Do 28 D-2

22. (Reserved):

[insert additional rows as applicable]

C.IV. Operating and Service Instructions

5. Flight Manual: DORNIER Do 28G92 Airplane Flight Manual approved November 1996 (HgCAA), including approved AFM-Supplements (HgCAA), or later approved Revisions

   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

**D.I. General**

1. Data Sheet No.: 10015031
2. a) Type: Do28  
   b) Model: Do28-D2  
   c) Variant: Do28-D2  
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 Date:

**D.II. EASA Certification Basis**

1. Reference Date for determining the applicable requirements: 25.10.1995
3. Special Conditions: None
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 EASA noise database)
   - Emission: ICAO Annex 16, Volume II, Part II
8. (Reserved) Additional National Requirements:
9. (Reserved)

**D.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: 2 x 452 Litres each, total 904 Litres
Usable: 2 x 447 Litres each, total 894 Litres
Two external Fuel Tanks
Total: 2x 246 Litres each, total 492 Litres
Usable: 2x 236 Litres each, total 472 Litres

9.2 Oil:
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 Manoeuvring Speed $V_A$: 129 KCAS
Flap Extended Speed $V_{FE}$: 110 KCAS
Maximum Operating Speed $V_{MO}$: 155 KCAS
Minimum Control Speed $V_{MC}$: 65 KCAS
Min. Safety Speed, 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:
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.
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 Seating Capacity: 14
   For Parachute Jumper Drop Operation: 15

20. Baggage/Cargo Compartments: Max. Weight in the Rear Baggage Compartment: 100 kg (220 lbs)

21. Wheels and Tyres: No Changes to Basic Do 28 D-2

22. (Reserved):

[insert additional rows as applicable]

**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

   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. Data Sheet No.: 10015031
2. a) Type: Do28
   b) Model: Do28-D2
   c) Variant: Do28-D2
   d) Version (STC): G92-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:

E.II.  EASA Certification Basis

1. Reference Date for determining the applicable requirements: 28.07.2010


3. Special Conditions: None

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 EASA noise database)
   - Emission: ICAO Annex 16, Volume II, Part II
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)
   - Model: WALTER M 601 D-2 turboprop engines
   - Type Certificate: EASA.E.070
   - Limitations: According to AFM and AFM-Supplement Modification 2023625-1800
6. (Reserved)
7. Propeller: Two (2x)
   - Model: AVIA PROPELLER V508 D-2-99B
   - Type Certificate: EASA.P.028
   - Number of blades: 3
   - Diameter: Diameter 2500 mm
   - Sense of Rotation: Right-Hand Tractor
8. Fluids:
   - Fuel: Commercial Kerosene Jet A-1
   - Oil: Refer to AFM
   - Coolant: None
9. Fluid capacities:
   - Fuel: Two Main Fuel Tanks
     Total: 2 x 452 Litres each, total 904 Litres
Usable: 2 x 447 Litres each, total 894 Litres

9.2 Oil:
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 Manoeuvring Speed $V_A$: 129 KCAS
Flap Extended Speed $V_{FE}$: 110 KCAS
Maximum Operating Speed $V_{MO}$: 155 KCAS
Minimum Control Speed $V_{MC}$: 65 KCAS
Min. Safety Speed, 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:
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.

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 Seating Capacity: 14
   For Parachute Jumper Drop Operation: 15

20. Baggage/Cargo Compartments: Max. Weight in the Rear Baggage Compartment: 100 kg (220 lbs)

21. Wheels and Tyres: No Changes to Basic Do 28 D-2

22. (Reserved):

   [insert additional rows as applicable]

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

    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. General

1. Data Sheet No.: 10015031
2. a) Type: Do28
   b) Model: Do28-D2
   c) Variant: Do28-D2
   d) Version (STC): 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 requirements: 28.07.2010
3. Special Conditions: None
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 EASA noise database)
   - Emission: ICAO Annex 16, Volume II, Part II
8. (Reserved) Additional National Requirements:
9. (Reserved)

F.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:
   - Fuel: Commercial Kerosene Jet A-1
   - Oil: Refer to AFM
   - Coolant: None
9. Fluid capacities:
   - Fuel: Two Main Fuel Tanks
Total: 2 x 452 Litres each, total 904 Litres
Usable: 2 x 447 Litres each, total 894 Litres
Two external Fuel Tanks
Total: 2x 246 Litres each, total 492 Litres
Usable: 2x 236 Litres each, total 472 Litres

9.2 Oil:
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 Manoeuvring Speed $V_A$: 129 KCAS
Flap Extended Speed $V_{FE}$: 110 KCAS
Maximum Operating Speed $V_{MO}$: 155 KCAS
Minimum Control Speed $V_{MC}$: 65 KCAS
Min. Safety Speed, 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:
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.
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 Seating Capacity: 14
   For Parachute Jumper Drop Operation: 15

20. Baggage/Cargo Compartments: Max. Weight in the Rear Baggage Compartment: 100 kg (220 lbs)

21. Wheels and Tyres: No Changes to Basic Do 28 D-2

22. (Reserved):

[insert additional rows as applicable]

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


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. General

1. Data Sheet No.: 10015031

2. a) Type: Do28
   b) Model: Do28-D2
   c) Variant: Do28-D2
   d) Version (STC): 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

7. (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


3. Special Conditions: None

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 EASA noise database)
   - Emission: ICAO Annex 16, Volume II, Part II
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
Usable: 2 x 447 Litres each, total 894 Litres

9.2 Oil:
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 Manoeuvring Speed $V_A$ : 129 KCAS
Flap Extended Speed $V_{FE}$ : 110 KCAS
Maximum Operating Speed $V_{MO}$ : 155 KCAS
Minimum Control Speed $V_{MC}$ : 65 KCAS
Min. Safety Speed, 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:
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.

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 Seating Capacity: 14
   For Parachute Jumper Drop Operation: 15

20. Baggage/Cargo Compartments: Max. Weight in the Rear Baggage Compartment: 100 kg (220 lbs)

21. Wheels and Tyres: No Changes to Basic Do 28 D-2

22. (Reserved):
   [insert additional rows as applicable]

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

   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. General

1. Data Sheet No.: 10015031
2. a) Type: Do28
   b) Model: Do28-D2
   c) Variant: Do28-D2
   d) Version (STC): 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 Authority Type Certificate Date:

H.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements: 28.07.2010
3. Special Conditions: None
3. Exemptions: None
4. Deviations: None
5. Equivalent Safety Findings: None
6. Requirements elected to comply: None
8. (Reserved) Additional National Requirements:
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. 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
9.2 Oil:
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 Manoeuvring Speed $V_A$: 129 KCAS
Flap Extended Speed $V_{FE}$: 110 KCAS
Maximum Operating Speed $V_{MO}$: 155 KCAS
Minimum Control Speed $V_{MC}$: 65 KCAS
Min. Safety Speed, 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:
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.
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 Seating Capacity: 14
   For Parachute Jumper Drop Operation: 15

20. Baggage/Cargo Compartments: Max. Weight in the Rear Baggage Compartment: 100 kg (220 lbs)

21. Wheels and Tyres: No Changes to Basic Do 28 D-2

22. (Reserved):

   [insert additional rows as applicable]

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


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 –
Fairchild Dornier GmbH
27 July 2003:
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

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<th>Issue</th>
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<tr>
<td>Issue 01</td>
<td>19 Feb 2008</td>
<td>Initial Issue</td>
<td>EASA.A.S.03343</td>
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<tr>
<td>Issue 02</td>
<td>04 Apr 2008</td>
<td>Corrections</td>
<td>EASA.A.S.03343</td>
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<tr>
<td>Issue 03</td>
<td>30 Nov 2010</td>
<td>New (S)TCDS Format, adding of new Propeller Types, corrections and adding Manufacturer</td>
<td>10015031 30 Nov 2010</td>
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