European Union Aviation Safety Agency

EASA

TYPE-CERTIFICATE
DATA SHEET

No.: EASA.A.096

for

DORNIER 328 SERIES

Type Certificate Holder:

328 SUPPORT SERVICES GmbH
Sonderflughafen Oberpfaffenhofen
D-82231 Wessling,
Germany

For Models: Dornier 328-100
Dornier 328-300

Issue 7 01 July 2019
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The Contents of this TCDS are based on the previously issued JAA Data Sheet Nr. JAA/25/93-007 and the LBA attachments to its TCDS 2534 for 328-100 and 328-300 (all at Issue 20, 11 November 2003).
SECTION 1: GENERAL (ALL MODELS)

1. Data Sheet No.: TCDS EASA.A.096

2. Type: DORNIER 328

3. Airworthiness Category: Transport Category

4. Type Certificate Holder: 328 Support Services GmbH
   DOA Certificate No. EASA.21J.438
   Sonderflughafen Oberpfaffenhofen
   D-82231 Wessling
   Germany

5. Manufacturer: 328 Support Services GmbH
   POA Certificate holder No. : DE.21G.0002
   P.O. Box 1252
   D-82231 Wessling
   Federal Republic of Germany
SECTION 2: DORNIER 328-100

I. General

1. Type / Model: DORNIER 328-100

2. JAA Certification Application Date: November 9, 1987

3. EASA Certification Date: October 15, 1993
   (JAA Certification Recommendation Date: October 15, 1993)

II. Certification Basis

1. Reference Application for National Certification: not applicable

2. National Certification Date: not applicable

3. National Certification Basis: not applicable

4. JAA Airworthiness Requirements: JAR 25, Large Aeroplanes
   Change 12, Amendment 88/1 (10.05.1988)
   JAR-AWO at Change1, (effective 11.29.1985)
   JAR 1, Definitions Change 4 (01.06.1987)

5. Special Conditions
   CRI B-1.1 Stalling Speeds
   CRI B-1.2 Minimum Control Speeds
   CRI B-1.3 Accelerate-Stop and related Performance
   CRI B-1.5 Function and Reliability Testing
   CRI C-1.1 Stalling Speeds for Structural Design
   CRI C-1.2 Discrete Gust Requirements
   CRI C-1.3 Interaction of Systems
   CRI C-1.4 Improved Seat Safety
   CRI C-1.5 Rapid Decompression
   CRI C-1.6 Factors for Engine Torque
   CRI D-1.1 Lightning Protection, Indirect Effects
   CRI D-1.2 Landing Gear Warning
   CRI D-1.3 Cargo and Service Doors
   CRI D-1.4 Flap Gates
   CRI D-7(PTC) Bullet Proof Cockpit Door
   CRI E-1.1 Propeller Reversing System
   CRI F-1.1 Electrical Standby Power
CRI F-1.2  High Intensity Radiated Fields (HIRF)
CRI F-1.3  Miscellaneous Electrical Requirements
CRI F-1.4  Barometric Scales
CRI K-1.1  All Weather Operations
CRI H-1   ICA for Electrical Wiring Interconnection System (EWIS)
CRI B-1.6  (PTC) Steep Approach Operation
CRI F-1.05 (PTC) Flight Recorders and Data Link Recording
CRI F-1.06 (PTC) Non-rechargeable Lithium Battery Installations, effective for changes applied for after 01 July 2019

Additional National Requirement for TC Issuance: none

Elect to comply with later effective JAR amendment: JAR 25, Large Aeroplanes, Change 12, Amendment 88/1 (18.10.1988)
JAR 25.21 (b), Change 13, Amdt. 90/1
JAR 25.253(a)(4), Change 13, Amdt. 90/1

Minimum Additional National Requirements for post TC Modifications:
UK Special Conditions Do 328-1,
Longitudinal, Directional and Lateral Trim
For further details refer to CRI A-2.3, Issue 6

6. JAA Exemptions:
CRI B-3.1  Exemption from JAR 25.205 Stalls: Critical Engine Inoperative
CRI F-3.1  Temporary Exemption from JAR 25.1439 (b), 25.1441 (a), 25.1447 (b) and (c) Oxygen Requirements
Note: Compliance has to be shown prior to national operational approvals.
CRI C-3.1  Exemption from JAR 25.562 (c)(5), HIC Values, Front Row Passenger Seats

7. Deviations:
CRI F-104  ADS-B Out Extended Squitter Installation

8. Equivalent Safety Findings:
JAR 25.811 (e)(3)  Type III Exit Handle/Illumination (CRI D-2.1)
JAR 25.811 (f)(3)  Emergency Exit Marking (CRI D-5PTC)
(prior to incorp. of Mod 10): JAR 25.161 (d)  Trim at One Engine Inoperative Climb (see Note 4)
9. JAA Environmental Standards:


10. Operational Suitability Data Standards:

OSD MMEL certification basis: JAR MMEL Subpart A & B, Amendment 1

III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Current issue of Type Design Definition Document No. TD-00300

2. Description: Standard Specification Document No.: AVS 001A 000 A0100 000D

3. Equipment: Equipment Register Document No.: TD-34000

4. Dimensions: Span: 20.976 m (68ft 9.86 in) 
Length: 21.284 m (69ft 9.95 in) 
Height: 7.234 m (23ft 8.82 in) 
Wing Area: 40.00 m² (430.50ft²) (TOTAL AREA)

5. Engines:

Type 1 2 Engines
(for Mod. 00 and 10 only) Pratt & Whitney Canada Inc.
Model: PW 119B 
JAA Data Sheet No.: JAA / E / 99-003

Type 2 2 Engines
(for Mod. 20 and 30 only) Pratt & Whitney Canada Inc.
Model: PW 119C 
JAA Data Sheet No.: JAA / E / 99-003

5.1 Engine Limits: For details refer to AFM No.: AM-AFM-050893-ENV, Section 02-06-00, Page 1

6. Auxiliary Power Unit (APU): Allied Signal Engines (Garrett APU Div.)
Model: 36-150 [DD], LBA TCDS 6605.
For details refer to AFM No.: AM-AFM-050893-ENV, Supplement 001, Section 07-02-00, Page 1

7. Propellers: 2 Propellers,
Propeller Assembly Model:
(prior to incorp. of Mod 10) HD-E6C-3A / E13482 ( ) K
FAA TCDS No.: P34NE Date: 21.07.93
(aircraft modified by Mod 10, 20 and Mod 30) HD-E6C-3B / E13890 ( ) K
FAA TCDS No.: P34NE Date: 03.10.94

7.1 Propeller Limits:
Max. Continuous Power: 2250 SHP
Max. RPM: 1300 RPM

Ground Operating Limitations:
Max. Np with propeller feathered: 26.9%
Stabilised operation between: 26.9% Np and 46.2% Np – is prohibited,
Stabilised operation between: 57.7% Np and 71.2% Np – is prohibited whenever surface winds are from behind the propeller disc and are above 25 kts.

8. Fluids (Fuel/Oil/Additives):
See Airplane Flight Manual AM-AFM-050893-ENV, Section 02-06-00, Pages 3 / 5

9. Fluid capacities:

<table>
<thead>
<tr>
<th>OIL TANK</th>
<th>TOTAL OIL TANK</th>
<th>USABLE OIL</th>
<th>TOTAL OIL SYSTEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>LITERS</td>
<td>17.70</td>
<td>2.84</td>
<td>21.00</td>
</tr>
<tr>
<td>US GALLONS</td>
<td>4.70</td>
<td>0.75</td>
<td>5.60</td>
</tr>
</tbody>
</table>

Fuel density: 0.796 Kg/L = 6.643 lb. per US gal, ISA

<table>
<thead>
<tr>
<th>MAX USABLE FUEL TANK CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>INNER WING TANK</td>
</tr>
<tr>
<td>-----------------</td>
</tr>
<tr>
<td>POUNDS</td>
</tr>
<tr>
<td>KILOGRAMS</td>
</tr>
<tr>
<td>US GALLONS</td>
</tr>
</tbody>
</table>

For details see Maintenance Manual AM-AFM-050893-ENV, Section 02-06-00, Page 4 / 5

10. Air Speeds:

Design Speeds and Mach Numbers
Design Cruise Speed: \( V_c = 270 \text{ KIAS} \) from sea level to 20 000 ft and limiting Mach number above this altitude is \( M_c = 0.59 \).
Design Dive Speed: \( V_d = 324 \text{ KIAS} \) from sea level to 16 800 ft and the limiting Mach number above this altitude is \( M_d = 0.66 \).

### Flap Design Speeds

<table>
<thead>
<tr>
<th>Flaps (degrees)</th>
<th>Design speed (KIAS)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>12°</td>
<td>200</td>
<td>Take-off / Approach Climb</td>
</tr>
<tr>
<td>20°</td>
<td>180</td>
<td>Landing / Approach Climb</td>
</tr>
<tr>
<td>32°</td>
<td>160</td>
<td>Landing</td>
</tr>
</tbody>
</table>

Maximum Operating Limit Speeds \( V_{MO} / M_{MO} \)

\[ V_{MO} = 270 \text{ KIAS} \] from sea level to 20 000 ft

\[ M_{MO} = 0.59 \] from 20 000 ft to 31 000 ft

Manoeuvring Speed \( V_A \)

\[ V_A = 180 \text{ KIAS} \] from sea level to 31 000 ft

### Landing Gear Speeds

Landing gear operating speed \( V_{LO} \):

\[ V_{LO} = 200 \text{ KIAS} \]

Landing gear extended speed \( V_{LE} \):

\[ V_{LE} = 200 \text{ KIAS} \]

### Rough Air Speeds \( V_{RA} / M_{RA} \)

\[ V_{RA} = 185 \text{ KIAS} \] from sea level to 15 000 ft

\[ V_{RA} = 200 \text{ KIAS} \] from 15 000 ft to 22 000 ft

\[ M_{RA} = 0.46 \] from 22 000 ft to 31 000 ft

Max Tire Speed

The maximum tire speed is 165 KTS ground speed (190 mph)

11. Maximum Operating Altitude: 9 449 m (31 000 ft)

12. All weather Capability: CAT II (see Note 5)

13. Maximum Weights:

- Max Ramp Weight (prior to incorp. of Mod 10): 13 720 kg (30 247 lb.)
- Max Takeoff Weight (prior to incorp. of Mod 10): 13 640 kg (30 071 lb.)
- Max Landing Weight (prior to incorp. of Mod 10): 13 230 kg (29 167 lb.)
- Max Zero Fuel Weight (prior to incorp. of Mod 10): 12 260 kg (27 029 lb.)
- Max Ramp Weight (after modification by Mod 10, 20 and Mod 30): 14 070 kg (31 019 lb.)
- Max Takeoff Weight (after modification by Mod 10, 20 and Mod 30): 13 990 kg (30 843 lb.)
- Max Landing Weight (after modification by Mod 10, 20 and Mod 30): 13 230 kg (29 167 lb.)
- Max Zero Fuel Weight (after modification by Mod 10, 20 and Mod 30): 12 610 kg (27 800 lb.)

14. Centre of Gravity Range:

For details refer to AFM No.: AM-AFM-050893-ENV, Section 02-03-00, pages 1/2

15. Datum:

For details refer to AFM No.: AM-AFM-050893-ENV, Section 01-02-00, Page 1
16. Mean Aerodynamic Cord: MAC at Station 9378
   The MAC length is 2.037 m (80.20 in.)

17. Levelling Means:
   Levelling means and measuring marks are provided at the aircraft. The details of these marks by special rivets or drillings are shown and described in the levelling drawing and Weight & Balance Manual, Doc. No. TM-WBM-190793-ENV.

18. Minimum Flight Crew: 2, (Pilot and Copilot)

19. Maximum Passenger Seating Capacity: 33 Passengers (see Note 1)

20. Exits:

<table>
<thead>
<tr>
<th>No</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Entr. &amp; Emerg. Exit Type II</td>
<td>1.700m x 0.700m (5ft 6.93in. x 2ft 3.56in.)</td>
</tr>
<tr>
<td>1</td>
<td>Service Door</td>
<td>1.250m x 0.508m (4ft 1.21in. x 1ft 8.00in.)</td>
</tr>
<tr>
<td>2</td>
<td>Emerg. Exits Type III</td>
<td>0.916m x 0.508m (3ft 0.06in. x 1ft 8.00in.)</td>
</tr>
<tr>
<td>1</td>
<td>Emerg. Exit Top Hatch</td>
<td>0.494m x 0.522m (1ft 7.45in. x 1ft 8.55in.)</td>
</tr>
</tbody>
</table>

21. Baggage / Cargo Compartments:

<table>
<thead>
<tr>
<th>Class</th>
<th>Volume</th>
<th>Max. allowable Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>D (rear)</td>
<td>6.49 m³ (229 ft³)</td>
<td>750 kg (1,653 lb.)</td>
</tr>
<tr>
<td>Overhead Baggage Bins</td>
<td>0.98 m³ (34.6 ft³)</td>
<td>157 kg (347 lb.)</td>
</tr>
</tbody>
</table>


22. Wheels and Tyres:

- Main Landing Gear: Each MLG incorporates twin 10 inch rims and 24 x 7.7 14 PR 190 mph bias ply tubeless tires
- Nose Landing Gear: The NLG incorporates twin 8 inch rims and 19.5 x 6.75-8 10 PR 190 mph bias ply tubeless tires

**IV. Operating and Service Instructions**
(see Note 3)

1. Operating Instructions:
   c. Master Minimum Equipment List, Document No.: AM-MMEL-010410-EASA
2. Service Instructions:
   b. Service Letters and Service Bulletins
      (see Publication Index Chapter 3, Document No. For each SB/SI etc.)
   c. Airworthiness Limitation, Document No. TM-ALD-010693-ALL
   f. Aircraft Illustrated Parts Catalogue, Document No.: TM-AIPC-170993-ENV
   h. Maintenance Review Board Report, Document No. TM-MRB-010693-ALL
   i. Certification Maintenance Requirements, Document No. TM-CMR-010793-ALL

II. Notes

1. Cabin Interior and Seating Configuration:
   Approved cabin layouts might not include passenger provisions. Carriage of persons in the cabin is only permitted when an approved seating arrangement and related required passenger provisions are incorporated in accordance with the Joint Type Certification basis.

2. Ditching Provisions:
   Compliance with operational ditching requirements of JAR 25.801, JAR 25.1411 and JAR 25.1415 has not been shown.

3. Current Issue of LBA/EASA Approved Documents:
   The current issue of LBA/EASA approved documents, including applicable temporary AFM revisions, have to be used for safe operation of the airplane. Preceding issues of LBA approved documents become invalid with the approval date of a new issue, amendment, or revision.

4. JAA Equivalent Safety:
   Direct compliance with JAR 25.161 (d) has been shown for aircraft modified by modifications summarized in Model Modification DO 328-100, Mod 10, 20 and Mod 30.

5. Airworthiness Approval for CAT II:
   The airborne instruments and equipment meet the performance and design standards of the JAA Joint Certification basis as defined in CRI A-1.1, Issue 7. Compliance with the standards referenced above, does not constitute approval to conduct CAT II operations.

6. Model Modification:
   A Model Modification is identified by Dornier 328-100 Mod YY. A Mod identifies an aircraft model in which a specific number of dedicated type design changes, summarized in Change Notices, have been incorporated. A Mod is an engineering designation, also used to define effectivities within the operational documentation. On request of the manufacturer, all information for operation of the Dornier 328-100, „Mod. 00“ airplanes have been removed from the LBA approved Flight Manual. Therefore, the operation, production and modification into the model modification Dornier 328-100, „Mod. 00“ is no longer permitted.
   Note: All delivered airplanes of model modification Dornier 328-100, „Mod. 00“ have been modified into airplanes of approved model modification Dornier 328-100, „Mod. 10“ or „Mod. 20“.

7. Applicable Serial Numbers:
The section A of this TCDS and related type certificate is applicable to all 328-100 aircraft serial numbers produced in accordance with the approved type design. The following serial numbers are declared Non-TC compliant aircraft and excluded from the TCDS due to production details and known non-conformities:

A. Former test aircraft S/No’s.: 3001, 3002, 3003, 3004
B. Known destroyed aircraft: 3009, 3037, 3048, 3054, 3107

Note: Parts and appliances of aircraft involved in accidents or damaged beyond economical repair at the time of the occurrence must not be used on 328 aircraft that are released to service in accordance with this TCDS unless they receive a renewed airworthiness review certificate by the TC-holder.
SECTION 3: DORNIER 328-300

I. General

1. Type / model: DORNIER 328-300

2. JAA Certification
   Application Date: 27 November 1996

3. EASA Certification Date: 6 July 1999
   (JAA Certification
   Recommendation Date: 6 July 1999)

II. Certification Basis

1. Reference Application
   for National Certification: not applicable

2. National Certification Date: not applicable

3. National Certification Basis: not applicable

4. JAA Airworthiness
   Requirements: JAR 25, Large Aeroplanes
   Change 14, Amendment 25/96/1 (27.11.1996)
   JAR-AWO at Change 2, (effective 01.08.96)
   JAR 1, Definitions Change 5 (15.07.1996)

5. Special Conditions
   INT/POL/25/2 Protection from Effects of HIRF
   INT/POL/25/3 Lighting Protection, Direct Effects
   INT/POL/25/4 Lightning Protection Indirect Effects
   INT/POL/25/5 Accelerate-Stop Distances and related
   Performances
   INT/POL/25/6 Worn Brakes
   INT/POL/25/8 Yawing Manoeuvring Conditions
   INT/POL/25/9 Fuel Tank Crashworthiness
   CRI B-1.1 Reference Stall Speed
   CRI B-1.3 Accelerate-Stop Distance Criteria
   CRI B-1.5 Function and Reliability Testing
   CRI B-1.6 Steep Approach Landing
   CRI C-1.3 Interaction of Systems and Structure
   CRI D-1.4 Flap Gates
   CRI D-4.2 Aeroplane Wheels and Wheel-Brakes
   Assembly
   CRI D-7(PTC) Bullet Proof Cockpit Door
   CRI F-1.4 Barometric Scales
CRI H-1  ICA for Electrical Wiring Interconnection System (EWIS)

CRI F-1.06 (PTC) Non-rechargeable Lithium Battery Installations, effective for changes applied for after 01 July 2019

Additional National Requirement for TC Issuance:  CRI A-2  ANDRs and ANAR’s for TC

6. JAA Exemptions:  CRI F-3.1  Exemption from JAR 25.1439(b), 25.1441 (a), 25.1447 (b) and (c) Oxygen Requirements

Note: Compliance must be shown prior to national operational approvals.

7. Deviations:  CRI F-104  ADS-B Out Extended Squitter Installation

8. Equivalent Safety Findings:  CRI D-2.1  Lavatory Fire Protection (JAR 25.854 (a))
CRI F-2.1  Hydraulic System Static Test, (JAR 25.1435 (b)(1))
CRI D-5 (PTC)  Emergency Exit Marking JAR 25.811 (f)(3)
CRI E-4.4(PTC)  Fuel Tank Expansion Space JAR 25.969
CRI D-2.2(PTC)  Towbarless Towing (CS 25.745(d)(1))

9. JAA Environmental Standards:


10. Operational Suitability Data Standards:

    OSD MMEL certification basis:  JAR MMEL Subpart A & B, Amendment 1

III. Technical Characteristics and Operational Limitations

1. Type Design Definition:  Document No. TD-F0300
   plus Change Notice CN-F0038
   plus Change Notice CN-F0039

2. Description:  Type Design Configuration Document No.:  AVS 001D 000 A0110 000B
3. Equipment: Equipment Register Document No.: TD-34000-F0

4. Dimensions: Span: 20.976 m (68ft 10 in)
    Length: 21.284 m (69ft 10 in) 
    Height: 7.239 m (23ft 9 in) 
    Wing Area: 40.00 m² (430.50 ft²) (TOTAL AREA)

5. Engines: 2 Engines
    Pratt & Whitney Canada Inc.
    Model: PW 306B
    JAA Data Sheet No.: JAA / E / 99-022
    Engine Limits: For details refer to AFM No.:
    AM-AFM-050599-ENV, Section 02-06-00, Page 1

6. Auxiliary Power Unit (APU): Allied Signal Engines (Garrett APU Div.)
    Model: 36-150 [DD], LBA TCDS 6605.
    For details refer to AFM No.:
    AM-AFM-050599-ENV, Section 02-06-00, Page 6

7. Propellers: Not Applicable

    TM-AMM-010399-ENV and
    AM-AFM-050599-ENV, Section 02-06-00, Pages 5 / 8

8. Fluid capacities:

<table>
<thead>
<tr>
<th>OIL CAPACITY PER ENGINE</th>
<th>OIL TANK</th>
<th>TOTAL OIL TANK</th>
<th>MIN OIL TANK QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>LITERS</td>
<td>8.00</td>
<td>3.0</td>
<td></td>
</tr>
<tr>
<td>US GALLONS</td>
<td>2.11</td>
<td>0.79</td>
<td></td>
</tr>
</tbody>
</table>

Fuel density: 0.796 Kg/L = 6.643 lb. per US gal, ISA

<table>
<thead>
<tr>
<th>MAX USABLE FUEL TANK CAPACITY</th>
</tr>
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<tbody>
<tr>
<td>Basic Version</td>
</tr>
<tr>
<td>INNER WING TANK</td>
</tr>
<tr>
<td>OUTER WING TANK</td>
</tr>
<tr>
<td>FEEDER TANK</td>
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<tr>
<td>EACH WING TANK GROUP TOTAL</td>
</tr>
<tr>
<td>TOTAL FUEL QUANTITY</td>
</tr>
<tr>
<td>Gravity Refuelled or Manual Pressure Refuelled</td>
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<tr>
<td>Automatic Pressure Refuelled</td>
</tr>
<tr>
<td>POUNDS</td>
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<td>2 349.6</td>
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<td>1 447.5</td>
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<td>187.9</td>
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<td>3 985.0</td>
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<td>7 970.0</td>
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<td>656.7</td>
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<td>599.9</td>
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<tr>
<td>1 200.0</td>
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<tr>
<td>1 174.0</td>
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</tbody>
</table>

| Extended Range Version       |
| Front Aux Tank               |
| LH Aft Aux Tank              |
| RH Aft Aux Tank              |
| Aux Tank Group Total         |
| Both Wing Tank Groups Total  |
| Total Fuel Quantity          |
| POUNDS                        |
| 1052.9                       |
| 1017.9                       |
| 1017.9                       |
| 3 088.7                      |
| 7 970.0                      |
| 11 058.7                     |
| KILOGRAMS                     |
| 477.6                        |
| 461.7                        |
| 461.7                        |
| 1 401.0                      |
| 3 615.0                      |
| 5 016.0                      |
| US GALLONS                    |
| 158.5                        |
| 153.2                        |
| 153.2                        |
| 464.9                        |
| 1 200.0                      |
| 1 664.9                      |

For details see Maintenance Manual TM-AMM-010399-ENV and AM-AFM-050599-ENV, Section 02-06-00, Page 5 / 8, and AFM Supplement 10.
10. Air Speeds:

Design Speeds and Mach Numbers

Design Cruise Speed
\[ V_c = 270 \text{ KIAS from sea level to } 8 \text{ 000 ft increasing linearly to } 300 \text{ KIAS at } 10 \text{ 000 ft}, \]
\[ V_c = 300 \text{ KIAS from } 10 \text{ 000 ft to } 20 \text{ 700 ft}, \]
and the limiting Mach number above this altitude (up to 35000 ft, see Note 5) is \( M_c = 0.66 \).

Design Dive Speed
\[ V_d = 324 \text{ KIAS from sea level to } 5 \text{ 000 ft increasing linearly to } 354 \text{ KIAS at } 7 \text{ 000 ft}, \]
\[ V_d = 354 \text{ KIAS from } 7 \text{ 000 ft to } 17 \text{ 700 ft}, \]
and the limiting Mach number above this altitude (up to 35000 ft, see Note 5) is \( M_d = 0.73 \).

Maximum Flap Extended Speeds (\( V_{FE} \))

<table>
<thead>
<tr>
<th>Flaps (degrees)</th>
<th>Flap Speed (KIAS)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>12°</td>
<td>200</td>
<td>Take-off</td>
</tr>
<tr>
<td>12°</td>
<td>205</td>
<td>Take-off</td>
</tr>
<tr>
<td>20°</td>
<td>180</td>
<td>Approach</td>
</tr>
<tr>
<td>32°</td>
<td>160</td>
<td>Landing</td>
</tr>
</tbody>
</table>

Maximum Operating Limit Speed \( V_{MO}/M_{MO} \)
\[ V_{MO} = 270 \text{ KIAS from sea level to } 8 \text{ 000 ft increasing linearly to } \]
\[ V_{MO} = 300 \text{ KIAS at } 10 \text{ 000 ft} \]
\[ V_{MO} = 300 \text{ KIAS from } 10 \text{ 000 ft to } 20 \text{ 700 ft} = V_c \]
\[ M_{MO} = 0.66 \text{ from } 20 \text{ 700 ft to } 31 \text{ 000 ft} \]
\[ M_{MO} = 0.66 \text{ at } 31\text{000 ft decreasing linearly to } \]
\[ M_{MO}= 0.64 \text{ at } 35000 \text{ ft (see Note 5)} \]

Manoeuvring Speed \( V_A \)
\[ V_A = 190 \text{ KIAS from sea level to } 35 \text{ 000 ft (see Note 5)} \]

Landing Gear Speeds

Landing gear operating speed \( V_{LO} \):
\[ V_{LO} = 200 \text{ KIAS from sea level to } 18 \text{ 000 ft} \]

Landing gear extended speed \( V_{LE} \):
\[ V_{LE} = 200 \text{ KIAS from sea level to } 18 \text{ 000 ft} \]

Rough Air Speeds \( V_{RA}/M_{RA} \)
\[ V_{RA} = 200 \text{ KIAS from sea level to } 26 \text{ 200 ft} \]
\[ M_{RA} = 0.5 \text{ from } 26,200 \text{ ft to } 35 \text{ 000 ft (see Note 5)} \]

Max Tire Speed
The maximum tire speed is 180 KTS ground speed (210 mph)

11. Maximum Operating Altitude:
\[ 9 \text{ 449 m (31 000 ft)} \]
\[ 10 \text{ 668 m (35 000 ft) (see Note 5)} \]
12. All-weather Capability: CAT II
    (see Note 6)

13. Maximum Weights:
    „Basic“ and „Extended Range“
    Max Ramp Weight: 15 350 kg (33 841 lb.)
    Max Takeoff Weight: 15 200 kg (33 510 lb.)
    Max Landing Weight: 14 090 kg (31 063 lb.)
    Max Zero Fuel Weight: 12 610 kg (27 800 lb.)

    Maximum Weights: „Mod 10“ and „Extended Range“
    Max Ramp Weight: 15 780 kg (34 789 lb.)
    Max Takeoff Weight: 15 660 kg (34 524 lb.)
    Max Landing Weight: 14 390 kg (31 724 lb.)
    Max Zero Fuel Weight: 13 070 kg (28 814 lb.)

14. Centre of Gravity Range:
    For details refer to AFM No.: AM-AFM-050599-ENV, Section 02-03-00, page 4.
    For „Extended Range“ refer to AFM Supplement 010, Section 07-02-00, page 2.

15. Datum:
    For details refer to AFM No.: AM-AFM-050599-ENV, Section 01-02-00, page 1.

16. Mean Aerodynamic Cord (MAC):
    MAC at Station 9378
    The MAC length is 2.037 m (80.20 in.).

17. Levelling Means:
    Levelling Means and the measuring marks are provided at the aircraft. The details of these marks by special rivets or drillings are shown and described in the levelling drawing and Weight & Balance Manual, Document No. TM-WBM-010399-ENV.

18. Minimum Flight Crew: 2 (Pilot and Copilot)

19. Maximum Passenger Seating Capacity: 33 Passengers on approved seats + 3 infants younger than two years occupying a seat together with an adult (see Note 1 and Note 7).
20. Exits:

<table>
<thead>
<tr>
<th>No</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Entrance &amp; Emerg. Exit Type II</td>
<td>1.700 m x 0.700 m (5ft 6.93 in. x 2ft 3.56 in.)</td>
</tr>
<tr>
<td>1</td>
<td>Service Door</td>
<td>1.250 m x 0.508 m (4ft 1.21 in. x 1ft 8.00 in.)</td>
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<tr>
<td>2</td>
<td>Emerg. Exits Type III</td>
<td>0.916 m x 0.508 m (3ft 0.06 in. x 1ft 8.00 in.)</td>
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<tr>
<td>1</td>
<td>Emerg. Exit Top Hatch</td>
<td>0.494 m x 0.522 m (1ft 7.45 in. x 1ft 8.55 in.)</td>
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21. Baggage / Cargo Compartments:

<table>
<thead>
<tr>
<th>Class</th>
<th>Volume</th>
<th>Max. allowable Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>D (rear)</td>
<td>6.49 m³ (229 ft³)</td>
<td>750 kg (1,653 lb.)</td>
</tr>
<tr>
<td>Overhead Baggage Bins</td>
<td>0.98 m³ (34.6 ft³)</td>
<td>157 kg (347 lb.)</td>
</tr>
</tbody>
</table>


22. Wheels and Tyres:

- **Main Landing Gear:** Each MLG incorporates twin 14 inch rims and 25.75 x 6.75-14 210 mph bias ply tubeless tires
- **Nose Landing Gear:** The NLG incorporates twin 8 inch rims and 19.5x6.75-8 10PR 210 mph bias ply tubeless tires

IV. Operating and Service Instructions
(see Note 3)

1. Operating Instructions
   c. Master Minimum Equipment List, Document No.: AM-MMEL-010412-EASA

2. Service Instructions
   b. Service Letters and Service Bulletins
      (see Publication Index Chapter 3, Document No. For each SB/SI etc.)
   c. Airworthiness Limitation Document No. TM-ALD-010599-ALL
   f. Aircraft Illustrated Parts Catalogue, Document No.: TM-AIPC-010399-ENV
   i. Certification Maintenance Requirements, Document No. TM-CMR-010599-ALL
V. Notes

1. Cabin Interior and Seating Configuration
   Approved cabin layouts might not include passenger provisions. Carriage of persons in the cabin is only permitted when an approved seating arrangement and related required passenger provisions are incorporated in accordance with the Joint Type Certification basis.

2. Ditching Provisions:
   Compliance with operational ditching requirements of JAR 25.801, JAR 25.1411 and JAR 25.1415 has not been shown.

3. Current Issue of LBA Approved Documents:
   The current issue of LBA/EASA approved documents, including applicable temporary revisions, have to be used for safe operation of the airplane. Preceding issues of LBA approved documents become invalid with the approval date of a new issue, amendment, or revision.

4. Model Modification:
   A Model Modification is identified by Dornier 328-300 Mod YY. A Mod identifies an aircraft model in which a specific number of dedicated type design changes, summarized in Change Notices, have been incorporated. A Mod is an engineering designation, also used to define effectivities within the operational documentation.
   Note: With Change Notice CN-F0053 a MTOW increase (referred to as „Mod 10“) of the Dornier 328-300 (referred to as „Basis“) has been introduced as Dornier 328-300 Mod 10. All data in this Data Sheet are valid for Dornier 328-300 as well as for the Dornier 328-300 Mod 10 unless otherwise stated.
   Serial numbers for Mod. 10: 3145, 3147, 3149, 3150, 3155, 3156, 3157, 3160 and subsequent.

5. Extension of Max Operating Altitude
   With Change Notice CN-F0004 the Option 020F005 (Extension of max. Operating Altitude from 31000 ft to 35000ft) under consideration of PTC CRI G-2.1 has been introduced.

6. Airworthiness Approval for CAT II:
   With Change Notice CN-F0013 the Option 020F006 (Approach Mode ILS CATII) has been introduced. The airborne instruments and equipment meet the performance and design standards of the JAA Joint Certification basis.
   Compliance with the standards referenced above, does not constitute approval to conduct CAT II operations.

7. Airworthiness Approval for Extended Range Operation:
   With Change Notice CN-F0005 the Option 033F003 (Extended Range) and with CN-F0564 the Option 033F011 (Extended Range with Stand Alone Fuel Leveling and Gauging) have been introduced.
   The extended range options are valid for 328-300 and 328-300 Mod 10.

8. Applicable Serial Numbers:
   The section B of this TCDS and related type certificate is applicable to all 328-300 aircraft serial numbers produced in accordance with the approved type design. The following serial numbers are declared Non-TC compliant aircraft and excluded from the TCDS due to production details and known non-conformities:
   A. Former test aircraft S/No’s.: 3002, 3099, 3102
   B. Known destroyed aircraft: 3105, 3184

Note: Parts and appliances of aircraft involved in accidents or damaged beyond economical repair at the time of the occurrence must not be used on 328 aircraft that are released to service in accordance with this TCDS unless they receive a renewed airworthiness review certificate by the TC-holder.
SECTION 4: ADMINISTRATIVE

I. Acronyms and Abbreviations

N/A

II. Type Certificate Holder Record

Dornier Luftfahrt GmbH
LBA Approved Design Organisation
Certificate No.: LBA.JA.002
D-82230 Wessling
Federal Republic of Germany

08th August 2000 – 27th July 2003:
Fairchild Dornier GmbH
LBA DOA Certificate No.: LBA.JA.002
D-82230 Wessling
Federal Republic of Germany

28th July 2003 – 06 June 2006:
AvCraft Aerospace GmbH
LBA DOA Certificate No.: LBA.JA.002
D-82231 Wessling
Federal Republic of Germany

07 June 2006:
328 Support Services GmbH
P.O. Box 1252
D-82231 Wessling
Federal Republic of Germany

Since 10 November 2017:
328 Support Services GmbH
DOA Certificate No. EASA.21J.438
Sonderflughafen Oberpfaffenhofen
D-82231 Wessling
Germany

Contracted DOA Holder:
Since 07 June 2006
GCT Design Organisation GmbH
DOA Certificate No. EASA.21J.033
Sonderflughafen Oberpfaffenhofen
Geb. 335
D-82234 Wessling
Germany

Since 01 August 2011:
328 Design GmbH
DOA Certificate No. EASA.21J.438
Sonderflughafen Oberpfaffenhofen
D-82234 Wessling
Germany

Since 10 November 2017:
Not applicable
III. Manufacturer Record

Dornier Luftfahrt GmbH
LBA Approved Production Organisation
Certificate No.: LBA.G.002
D-82230 Wessling
Federal Republic of Germany

08th August 2000 –
30th June 2003
Fairchild Dornier GmbH
LBA Approved Production Organisation
Certificate No.: LBA.G.0002
D-82230 Wessling
Federal Republic of Germany

01st July 2003 -
04 July 2006
AvCraft Aerospace GmbH
LBA Approved Production Organisation
Certificate No.: LBA.G.0002
D-82231 Wessling
Federal Republic of Germany

Since 04 July 2006 :
328 Support Services GmbH
POA Certificate holder No. : DE.21G.0002
P.O. Box 1252
D-82231 Wessling
Federal Republic of Germany
### III. Change Record

<table>
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<tr>
<th>Issue</th>
<th>Date</th>
<th>Changes</th>
<th>TC issue</th>
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<tr>
<td>Issue 01</td>
<td>07/06/2006</td>
<td>Initial Issue</td>
<td>Initial Issue, 18/03/2010</td>
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<tr>
<td>Issue 02</td>
<td>18/03/2010</td>
<td>CRIs inserted, Certain S/Ns removed</td>
<td>18/03/2010</td>
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<tr>
<td>Issue 03</td>
<td>26/01/2011</td>
<td>CRI listing sorted D328-100 (page 8), CRI H-1 added for D328-300 (page 17)</td>
<td>18/03/2010</td>
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<tr>
<td>Issue 04</td>
<td>01. Aug 2011</td>
<td>Contracted DOA Organisation Changed</td>
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<tr>
<td>Issue 05</td>
<td>28. Nov 2016</td>
<td>EASA OSD data added, MMEL revised (page 7, 11, 14, 19)</td>
<td>18/03/2010</td>
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<tr>
<td>Issue 06</td>
<td>21. Feb 2018</td>
<td>Contracted DOA Organisation removed, TC holder address updated (pages 1, 4 and 21), CRI F-1.05 added for D328-100 (page 6), ESF CRI D-2.2 added to 328-100 (page 6) and 328-300 (page 14), Section 7. Deviations: CRI F-104 added (pages 6 and 14), Section II for 328-100 and 328-300 renumbered Agreements to use Additional Acceptable Means of Compliance deleted for 328-100 (page 6) and 328-300 (page 14), Destroyed aircraft MSN added for 328-300 (page 19). Related note revised (pages 12 and 19).</td>
<td>18/03/2010</td>
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<tr>
<td>Issue 07</td>
<td>01. Jul 2019</td>
<td>CRI F-1.06 (PTC) Non-rechargeable Lithium Battery Installations, effective for changes applied after 01 July 2019 added for both 328-100 (page 6) and 328-300 (page 14), “Special Condition applied to post TC Modifications” – subsection title deleted and Special condition CRIs moved under “5. Special Conditions” (page 6).</td>
<td>18/03/2010</td>
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-END-