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European Union Aviation Safety Agency

EASA

TYPE-CERTIFICATE DATA SHEET

No.: EASA.A.096

for

DORNIER 328 SERIES

Type Certificate Holder:

Deutsche Aircraft GmbH Sonderflughafen Oberpfaffenhofen D-82234 Wessling, Germany

For Models: Dornier 328-100

Dornier 328-300

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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).

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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: Deutsche Aircraft GmbH

> DOA Certificate No. EASA.21J.438 Sonderflughafen Oberpfaffenhofen

D-82234 Wessling

Germany

5. Manufacturer: Deutsche Aircraft GmbH

POA Certificate holder No.: DE.21G.0002

P.O. Box 1252 D-82234 Wessling

Federal Republic of Germany

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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. Airworthiness

Requirements: 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 JAR-AWO at Change1, (effective 11.29.1985) JAR 1, Definitions Change 4 (01.06.1987)

REGULATION (EU) 2020/1159, dated 5 August 2020, Part 26.300(a); 26.301 (a); 26.302; 26.304(a) (b); 26.305(a) (b); 26.306(a) (b) (c); 26.307; 26.308; 26.309

5. Special Conditions

B-1.1	Stalling Speeds
B-1.2	Minimum Control Speeds
B-1.3	Accelerate-Stop and related Performance
B-1.5	Function and Reliability Testing
C-1.1	Stalling Speeds for Structural Design
C-1.2	Discrete Gust Requirements
C-1.3	Interaction of Systems
C-1.4	Improved Seat Safety
C-1.5	Rapid Decompression
C-1.6	Factors for Engine Torque
D-1.1	Lightning Protection, Indirect Effects

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D-1.2	Landing Gear Warning
D-1.3	Cargo and Service Doors
D-1.4	Flap Gates
D-7(PTC)	Bullet Proof Cockpit Door
E-1.1	Propeller Reversing System
F-1.1	Electrical Standby Power
F-1.2	High Intensity Radiated Fields (HIRF)
F-1.3	Miscellaneous Electrical Requirements
F-1.4	Barometric Scales
K-1.1	All Weather Operations
H-1	ICA for Electrical Wiring Interconnection
	System (EWIS)
B-1.6	(PTC) Steep Approach Operation
F-1.05	(PTC) Flight Recorders and Data Link Recording
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

B-3.1

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:

	Stalls: Critical Engine Inoperative
F-3.1	Temporary Exemption from JAR 25.1439 (b), 25.1441 (a), 25.1447 (b) and (c)
Note:	Oxygen Requirements Compliance has to be shown prior to national operational approvals.
C-3.1	Exemption from JAR 25.562 (c)(5),

HIC Values, Front Row Passenger Seats

Exemption from JAR 25.205

7. Deviations:

F-104 ADS-B Out Extended Squitter Installation

8. Equivalent Safety Findings:

Type III Exit Handle/Illumination JAR 25.811 (e)(3)

(D-2.1)

Emergency Exit Marking (D-5PTC) JAR 25.811 (f)(3)

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(prior to incorp. of Mod 10): JAR 25.161 (d) Trim at One Engine Inoperative

Climb (see Note 4)

D-2.2 (PTC) Towbarless Towing (CS 25.745(d)(1))

9. Environmental Standards:

Aircraft Noise: ICAO Annex 16, Volume I, Aircraft Noise,

Second Edition, July 1988, Chapter 3

Aircraft Engine Emissions: ICAO Annex 16, Volume II, Aircraft Engine Emissions,

First Edition, October 1981, Part II, Chapter 2

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 m^2 (430.50ft^2) (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

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7. Propellers: 2 Propellers,

Hartzell Propeller Inc. LBA TCDS No. 32.130/87

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:

OIL CAPACITY PER ENGINE (incl. Propeller Oil System)				
OIL TANK	TOTAL OIL TANK	USABLE OIL	TOTAL OIL SYSTEM	
LITERS	17.70	2.84	21.00	
US GALLONS	4.70	0.75	5.60	

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

	MAX USABLE FUEL TANK CAPACITY						
	INNER WING TANK	OUTER WING TANK	FEEDER TANK	EACH WING TANK GROUP TOTAL			
					Gravity Refuelled or Manual Pressure Refuelled	Automatic Pressure Refuelled	
POUNDS	2 182.6	1 395.5	187.4	3 765.5	7 531.0	7 300.0	
KILOGRAMS	990.0	633.0	85.0	1 708.0	3 416.0	3 311.3	
US GALLONS	328.5	210.1	28.2	566.8	1 133.6	1 098.9	

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: $V_c = 270$ KIAS from sea level to 20 000 ft

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and limiting Mach number above this altitude is $M_c = 0.59$.

Design Dive Speed: V_d = 324 KIAS from sea level to 16 800 ft and the limiting Mach number above this altitude is $M_d = 0.66$.

Flap Design Speeds

Design speed	Remarks
(KIAS)	
200	Take-off / Approach Climb
180	Landing / Approach Climb
160	Landing
	(KIAŠ) 200 180

Maximum Operating Limit Speeds V_{MO} / M_{MO}

 V_{MO} = 270 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 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 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:

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

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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:

No Type Size

 1
 Entr. & Emerg. Exit Type II
 1.700m x 0.700m (5ft 6.93in. x 2ft 3.56in.)

 1
 Service Door
 1.250m x 0.508m (4ft 1.21in. x 1ft 8.00in.)

 2
 Emerg. Exits Type III
 0.916m x 0.508m (3ft 0.06in. x 1ft 8.00in.)

 1
 Emerg. Exit Top Hatch
 0.494m x 0.522m (1ft 7.45in. x 1ft 8.55in.)

21. Baggage / Cargo Compartments:

Class Volume Max. allowable Load D (rear) $6.49 \text{ m}^3 (229 \text{ ft}^3)$ 750 kg (1,653 lb.) Overhead Baggage Bins $0.98 \text{ m}^3 (34.6 \text{ ft}^3)$ 157 kg (347 lb.)

See Operating Instructions in Weight & Balance Manual, Document No. TM-WBM-190793-ENV

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:

- a. Airplane Flight Manual, Document No. AM-AFM-050893-ENV
- b. Weight & Balance Manual, Document No. TM-WBM-190793-ENV
- c. Master Minimum Equipment List, Document No.: AM-MMEL-010410-EASA

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2. Service Instructions:

- a. Aircraft Maintenance Manual, Document No. TM-AMM-190793-ENV
- 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
- d. Ground Handling Service Info. Manual, Document No. TM-GHSIM-301093-ALL
- e. Structural Repair Manual, Document No. TM-SRM-300493-ALL
- f. Aircraft Illustrated Parts Catalogue, Document No.: TM-AIPC-170993-ENV
- g. Wiring Manual, Document No. TM-WM-300493-ENV
- h. Maintenance Review Board Report, Document No. TM-MRB-010693-ALL
- i. Certification Maintenance Requirements, Document No. TM-CMR-010793-ALL

A complete list of Instructions for Continued Airworthiness can be obtained from the Publication Index; Document No. IM-PI-081093-ALL Section: Introduction, 8. Instructions for Continued Airworthiness, available on the customer support web site https://www.deutscheaircraft.com/support

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.

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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.

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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. 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)

REGULATION (EU) 2020/1159, dated 5 August 2020, Part 26.300(a); 26.301 (a); 26.302; 26.304(a) (b); 26.305(a) (b); 26.306(a) (b) (c); 26.307; 26.308; 26.309

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** B-1.1 Reference Stall Speed B-1.3 Accelerate-Stop Distance Criteria B-1.5 **Function and Reliability Testing**

B-1.6 Steep Approach Landing

C-1.3 Interaction of Systems and Structure

D-1.4 Flap Gates

D-4.2 Aeroplane Wheels and Wheel-Brakes

Assembly

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D-7(PTC)	Bullet Proof Cockpit Door
F-1.4	Barometric Scales
H-1	ICA for Electrical Wiring Interconnection
	System (EWIS)
F-1.06	(PTC) Non-rechargeable Lithium Battery
	Installations, effective for changes applied for

after 01 July 2019

Additional National Requirement

for TC Issuance: A-2 ANDRs and ANAR's for TC

F-3.1 Exemption from JAR 25.1439(b), 6. JAA Exemptions:

> 25.1441 (a), 25.1447 (b) and (c) Oxygen Requirements

Compliance must be shown prior to Note:

national operational approvals.

7. Deviations:

F-104 ADS-B Out Extended Squitter Installation

8. Equivalent Safety

D-2.1 Findings: Lavatory Fire Protection (JAR 25.854 (a))

> F-2.1 Hydraulic System Static Test,

> > (JAR 25.1435 (b)(1))

D-5 (PTC) **Emergency Exit Marking**

JAR 25.811 (f)(3)

E-4.4(PTC) Fuel Tank Expansion Space JAR 25.969 Towbarless Towing (CS 25.745(d)(1)) D-2.2(PTC)

9. Environmental Standards:

Aircraft Noise: ICAO Annex 16, Volume I, Aircraft Noise,

Third Edition, July 1993, Chapter 3

Aircraft Engine Emissions: ICAO Annex 16, Volume II, Aircraft Engine Emissions,

Second Edition, July 1993, Part III, Chapter 2

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 0

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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 09 in)

Wing Area: 40.00 m^2 (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

8. Fluids (Fuel/Oil/Additives): See Maintenance Manual, Doc. No.:

TM-AMM-010399-ENV and

AM-AFM-050599-ENV, Section 02-06-00, Pages 5 / 8

8. Fluid capacities:

OIL CAPACITY PER ENGINE					
OIL TANK TOTAL OIL TANK MIN OIL TANK QTY					
LITERS	8.00	3.0			
US GALLONS	2.11	0.79			

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

MAX USABLE FUEL TANK CAPACITY						
			Basic	Version		
INNER WING OUTER WING FEEDER EACH WING TANK TOTAL			TOTAL FUEL QI	TOTAL FUEL QUANTITY		
	TANK	TANK TANK GROUP TOTAL				
					Gravity Refuelled or	Automatic Pressure
					Manual Pressure Refuelled	Refuelled
POUNDS	2 349.6	1 447.5	187.9	3 985.0	7 970.0	7 800.0
KILOGRAMS	1 065.8	656.7	85.0	1 807.5	3 615.0	3 538.0
US GALLONS	353.7	217.9	28.3	599.9	1 200.0	1 174.0

Extended Range Version						
	Front Aux	LH Aft Aux	RH Aft Aux	Aux Tank Group Total	Both Wing Tank	Total Fuel Quantity
	Tank	Tank	Tank		Groups Total	
POUNDS	1052.9	1017.9	1017.9	3088.7	7 970.0	11058.7
KILOGRAMS	477.6	461.7	461.7	1401.0	3 615.0	5016.0
US GALLONS	158.5	153.2	153.2	464.9	1 200.0	1664.9

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.

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10. Air Speeds:

Design Speeds and Mach Numbers

Design Cruise Speed

 V_c = 270 KIAS from sea level to 8 000 ft increasing linearly to 300 KIAS at 10 000 ft,

 $V_c = 300 \text{ KIAS from } 10\,000 \text{ ft to } 20\,700 \text{ ft,}$

and the limiting Mach number above this altitude (up to 35000ft, see Note 5)

is $M_c = 0.66$.

Design Dive Speed

V_d = 324 KIAS from sea level to 5 000 ft increasing linearly to 354 KIAS at 7 000 ft,

 $V_d = 354$ KIAS from 7 000 ft to 17 700 ft,

and the limiting Mach number above this altitude (up to 35000ft, see Note 5)

is $M_d = 0.73$.

Maximum Flap Extended Speeds (V_{FE})

Flaps	Flap Speed	Remarks	
(degrees)	(KIAS)		
12°	200	Take-off	"Basis"
12°	205	Take-off	"Mod 10"
20°	180	Approach	
32°	160	Landing	

Maximum Operating Limit Speed V_{MO}/M_{MO}

 V_{MO} = 270 KIAS from sea level to 8 000 ft increasing linearly to

 $V_{MO} = 300 \text{ KIAS at } 10 000 \text{ ft}$

 V_{MO} = 300 KIAS from 10 000 ft to 20 700 ft = V_{C}

 $M_{MO} = 0.66$ from 20 700 ft to 31 000 ft

 M_{MO} = 0.66 at 31000 ft decreasing linearly to

 M_{MO} = 0.64 at 35000 ft (see Note 5)

Manoeuvring Speed V_△

 V_A = 190 KIAS from sea level to 35 000 ft (see Note 5)

Landing Gear Speeds

Landing gear operating speed V_{LO} :

 $V_{10} = 200 \text{ KIAS}$ from sea level to 18 000 ft

Landing gear extended speed V_{IE}:

 $V_{IF} = 200 \text{ KIAS}$ from sea level to 18 000 ft

Rough Air Speeds V_{RA}/M_{RA}

 $V_{RA} = 200 \text{ KIAS}$ from sea level to 26 200 ft

 $M_{RA} = 0.5$ from 26,200 ft to 35 000 ft (see Note 5)

Max Tire Speed

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

11. Maximum Operating

Altitude: 9 449 m (31 000 ft)

10 668 m (35 000 ft) (see Note 5)

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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).

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20. Exits:

No Type Size 1 Entrance & Emerg. Exit Type II 1.700 m x 0.700 m (5ft 6.93 in. x 2ft 3.56 in.) 1 Service Door 1.250 m x 0.508 m (4ft 1.21 in. x 1ft 8.00 in.) 2 Emerg. Exits Type III 0.916 m x 0.508 m (3ft 0.06 in. x 1ft 8.00 in.) 1 Emerg. Exit Top Hatch 0.494 m x 0.522 m (1ft 7.45 in. x 1ft 8.55 in.)

21. Baggage / Cargo Compartments:

Class Volume Max. allowable Load 6.49 m³ (229 ft³) D (rear) 750 kg (1,653 lb.) 0.98 m³ (34.6 ft³) Overhead Baggage Bins 157 kg (347 lb.) See Operating Instructions in Weight & Balance Manual, Document No. TM-WBM-190793-ENV

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

The NLG incorporates twin 8 inch rims and Nose Landing Gear:

19.5x6.75-8 10PR 210 mph bias ply tubeless tires

IV. Operating and Service Instructions

(see Note 3)

1. Operating Instructions

- a. Airplane Flight Manual, Document No. AM-AFM-050599-ENV
- b. Weight & Balance Manual, Document No. TM-WBM-010399-ENV
- c. Master Minimum Equipment List, Document No.: AM-MMEL-010412-EASA

2. Service Instructions

- a. Aircraft Maintenance Manual, Document No. TM-AMM-010399-ENV
- 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
- d. Ground Handling Service Info. Manual, Document No. TM-GHSIM-010399-ENV
- e. Structural Repair Manual, Document No. TM-SRM-010399-ENV
- f. Aircraft Illustrated Parts Catalogue, Document No.: TM-AIPC-010399-ENV
- g. Wiring Manual, Document No. TM-WM-010399-ENV
- h. Maintenance Review Board Report, Document No. TM-MRB-010599-ALL
- i. Certification Maintenance Requirements, Document No. TM-CMR-010599-ALL

A complete list of Instructions for Continued Airworthiness can be obtained from the Publication Index; Document No. IM-PI-010399-ALL Section: Introduction, 8. Instructions for Continued Airworthiness, available on the customer support web site https://www.deutscheaircraft.com/support

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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.

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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 -

Fairchild Dornier GmbH

27th July 2003:

LBA DOA Certificate No.: LBA.JA.002

D-82230 Wessling

Federal Republic of Germany

28th July 2003 -

AvCraft Aerospace GmbH

06 June 2006:

LBA DOA Certificate No.: LBA.JA.002

D-82231 Wessling

Federal Republic of Germany

07 June 2006:

328 Support Services GmbH

09 November 2017

P.O. Box 1252

D-82231 Wessling

Federal Republic of Germany

10 November 2017 -

5 October 2021:

328 Support Services GmbH

DOA Certificate No. EASA.21J.438 Sonderflughafen Oberpfaffenhofen

D-82231 Wessling

Germany

Since 6 October 2021:

Deutsche Aircraft GmbH

DOA Certificate No. EASA.21J.438 Sonderflughafen Oberpfaffenhofen

D-82234 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

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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 – Fairchild Dornier GmbH

30th June 2003 LBA Approved Production Organisation

Certificate No.: LBA.G.0002

D-82230 Wessling

Federal Republic of Germany

01st July 2003 - AvCraft Aerospace GmbH

04 July 2006 LBA Approved Production Organisation

Certificate No.: LBA.G.0002

D-82231 Wessling

Federal Republic of Germany

04 July 2006 - <u>328 Support Services GmbH</u>

5 October 2021: POA Certificate holder No.: DE.21G.0002

P.O. Box 1252 D-82231 Wessling

Federal Republic of Germany

Since 6 October 2021: Deutsche Aircraft GmbH

POA Certificate holder No. : DE.21G.0002 Sonderflughafen Oberpfaffenhofen

D-82234 Wessling

Germany

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III.Change Record

Issue	Date	Changes	TC issue
Issue 01	07/06/2006	Initial Issue	Initial Issue, 18/03/2010
Issue 02	18/03/2010	CRIs inserted Certain S/Ns removed	18/03/2010
Issue 03	26/01/2011	CRI listing sorted D328-100 (page 8) CRI H-1 added for D328-300 (page 17)	18/03/2010
Issue 04	01. Aug 2011	Contracted DOA Organisation Changed	18/03/2010
Issue 05	28. Nov 2016	EASA OSD data added, MMEL revised (page 7,11,14,19)	18/03/2010
Issue 06	21. Feb 2018	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).	18/03/2010
Issue 07	01. Jul 2019	CRI F-1.06 (PTC) Non-rechargeable Lithium Battery Installations, effective for changes applied for 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).	18/03/2010
Issue 08	11. Nov 2021	Name and address change of the TC holder, DOA and POA.	09/11/2021

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Issue Date		Changes	TC issue	
Issue 09	01. Mar 2023	Addition of Part 26 requirements to the Certification Basis, Airworthiness Requirements of the 328-100 and 328-300 (SECTION 2 II. 4., page and SECTION 3 II. 4., page). Format alignments of the Certification Basis with the EASA TCDS standard (SECTION 2 II., page 5, 6 and 7 and SECTION 3 II., page 13,14 and 15). - Deletion of the JAA in the header of "JAA Airworthiness Requirements" and "JAA Environmental Standards" - Deletion of the paragraph "Elect to comply with later effective JAR amendment" under paragraph 5. and integration of its content under "Airworthiness Requirements", paragraph 4. - Deletion of the term "CRI" for SC, ESF, JAA exemption and DEV. Addition of the reference to the complete ICA listing (SECTION 2 IV. 2., page 11 and SECTION 3 IV. 2., page 18).		