European Aviation Safety Agency

EASA

TYPE-CERTIFICATE DATA SHEET

H 36

Type Certificate Holder: Diamond Aircraft Industries

Diamond Aircraft Industries GmbH
N.A. Otto-Str. 5
A-2700 Wiener Neustadt
Austria

For variants:

H 36	**"DIMONA"**
HK 36	**"SUPER DIMONA"**
HK 36 R	**"SUPER DIMONA"**
HK 36 TS	
HK 36 TC	
HK 36 TTS	
HK 36 TTC	
HK 36 TTC-ECO	

Issue 04; 03 August 2013

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Change Record

SECTION A H 36 "DIMONA"

A.I. General

1.	a) Type: b) Variant:	H 36 "DIMONA" ---
2.	Airworthiness Category:	Utility
3.	Type Certificate Holder:	Diamond Aircraft Industries GmbH N.A. Otto-Str. 5 A-2700 Wiener Neustadt Austria
4.	Manufacturer:	Hoffmann Flugzeugbau Friesach Gesellschaft mbH A-9322 Hirth/Friesach Austria Hoffmann Aircraft Flugzeugproduktion und Entwicklung GmbH Richard Neutra-Gasse 5 1214 Wien Austria
5.	Certification Application Date :	---
6.	LBA Certification Date :	see Note 6
	The EASA Type Certificate replaces the Austrian Type Certificate SF 3/82	
7.	EASA Certification Date:	21.December 2005 (reissue for EASA)

A.II. Certification Basis

1.	Reference Date for determining the applicable requirements:	---
2.	(Reserved)	
3.	(Reserved)	
4.	Certification Basis:	JAR-22, Change -, issued 15-Mar-1982
5.	Airworthiness Requirements:	JAR-22, Change -, issued 15-Mar-1982
6.	Requirements elected to comply:	None
7.	Special Conditions:	None
8.	Exemptions:	None

9. Equivalent Safety Findings: None

10. Environmental Standards: Zivilluftfahrzeug-Lärmzulässigkeitverordnung BGBl. 700/1986

A.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: H36 Top Drawing Set and following approved Design Changes (ÄM – System)

2. Description: Single engine, two-seated cantilever low wing airplane, GFRP-construction, T-tail, side by side seating configuration, fixed two-legged landing gear, air brakes on upper wing surface

3. Equipment: Minimum Equipment:
1 airspeed indicator (range up to 300 km/h)
1 altimeter with mbar barometric dial
1 magnetic compass with deviation table
1 RPM indicator
1 running time meter
1 oil pressure gauge
1 oil temperature gauge
1 fuel quantity gauge
1 cylinder head temperature gauge
1 at least 4-point harness for each seat
1 voltmeter

4. Dimensions:

Span	*16 m*
Length	*6,85 m*
Height	---
Wing Area	*15,2 m²*

5. Engines: 1 L 2000 EB 1.C or
1 L 2000 EB 1.AC (see Note 5)
Engine Type Certificate EASA TC E.083

5.1 Engine Limits:

Max take-off rotational speed	3400 r.p.m.
Max continuous rotational speed	3000 r.p.m

For power-plants limits refer to Flight Manual,

6. (Reserved)

7. Propellers: 1 Hoffmann HO-V62-R/L 160 T or
1 Hoffmann HO-V62-R/L 160 BT

7.1 Settings Low pitch setting/ Static RPM: 2800+/- 100

8. Fluids:
8.1 Fuel: AVGAS 100 LL or
Automotive Gasoline,
Leaded/unleaded min ROZ 96
(see Note 4)

8.2 Oil: "SE" automotive oils in accordance to the API System (see Flight Manual)

9. Fluid capacities:

9.1 Fuel:	Standard Fuel Tank	Total:	80 liters
		Usable:	80 liters
9.2 Oil:		Maximum:	2.5 liters
		Minimum:	1.5 liters

10. Air Speeds:

Design Manoeuvring Speed v_A:	176 km/h
Maximum rough air speed Vra):	210 km/h.
Never exceed speed v_{NE}:	275 km/h

11. Maximum Operating Altitude: ---

12. Allweather Capability: Day-VFR

13. Maximum Masses:

Take-off	770 kg
Maximum mass of non lifting parts	560 kg

14. Centre of Gravity Range:

Forward limit		270 mm behind Datum for all masses
Rear limit:	up to 740 kg	385 mm behind Datum
	at 770 kg	370 mm behind Datum
	varying linearly with mass in between	

15. Datum: wing leading edge at root rib

16. (reserved)

17. Levelling Means: tangent to wing lower surface at root rib

(0.6 m beside plane of symmetry) horizontal

18. Minimum Flight Crew: 1 (Pilot)

19. Maximum Passenger Seating Capacity: 2

20. (Reserved)

21. Baggage / Cargo Compartments

Behind Seats	12 kg

22. Wheels and Tyres

Main/Tail Wheel Tyre Size	For approved Types and rating see AMM

A.IV. Operating and Service Instructions

Airplane Flight Manual (AFM)	Airplane Flight Manual, Issue May 1984, BAZ approved Valid for Serial Nos. 3601 – 36193 and Serial Nos. 3501 – 3539 inclusive Airplane Flight Manual, Issue 15. November 1985, BAZ approved Valid for Serial Nos. 360151 – 360153 and Serial Nos. 36204 and subsequent
Airplane Maintenance Manual (AMM) (incl. Airworthiness Limitations)	Maintenance Manual, Issue May 1984, Valid for Serial Nos. 3601 – 36193 and Serial Nos. 3501 – 3539 inclusive Maintenance Manual, Issue 15. November 1985 Valid for Serial Nos. 360151 – 360153 and from Serial Nos. 36.204 inclusive Engine Manual – Engines for Powered Gliders Limbach L 2000 and series, latest effective issue Owner's Manual for the HO-V62 and HO-V62-R propeller, latest effective issue Service Informations and Service Bulletins

All Master Manuals are issued in German Language only

A.V. Notes

1. Only industrial manufacturing is permitted.

2. All components exposed to direct sunlight, except for areas used for registration markings and warning marks, must basically have a white surface. In individual cases, deviations are permitted only in agreement with the manufacturer.

3. The installation and use of a differential braking system in accordance with SB 42, latest issue, by the type certificate holder is permitted

4. Use of unleaded fuel, min. ROZ 96, in accordance with SB 56 of Diamond Aircraft Industries, latest issue, is permitted.

5. Engine type designation in accordance with Limbach Technical Bulletin 17.

6. Initial Certification carried out by LBA- Germany TC 820 and transferred to Austria TC SF 3/82 before production start.

SECTION B HK 36 "SUPER DIMONA"

B.I. General

1.	a) Type: b) Variant:	H 36 "DIMONA" HK 36 "SUPER DIMONA"
2.	Airworthiness Category:	Utility
3.	Type Certificate Holder:	Diamond Aircraft Industries GmbH N.A. Otto-Str. 5 A-2700 Wiener Neustadt Austria
4.	Manufacturer:	Hoffmann Aircraft GesmbH. N.A. Otto-Str. 5 A-2700 Wiener Neustadt Austria HOAC Austria GesmbH. N.A. Otto-Str. 5 A-2700 Wiener Neustadt Austria Diamond Aircraft Industries GmbH N.A. Otto-Str. 5 A-2700 Wiener Neustadt Austria
5.	Certification Application Date :	---
6.	BAZ Certification Date :	15. May 1990
	The EASA Type Certificate replaces the Austrian Type Certificate SF 3/82	
7.	EASA Certification Date:	21.December 2005 (reissue for EASA)

B.II. Certification Basis

1.	Reference Date for determining the applicable requirements:	---
2.	(Reserved)	
3.	(Reserved)	
4.	Certification Basis:	JAR-22, Change 4, issued 07-May-1987
5.	Airworthiness Requirements:	JAR-22, Change 4, issued 07-May-1987

6. Requirements elected to comply: None

7. Special Conditions: None

8. Exemptions: None

9. Equivalent Safety Findings: None

10. Environmental Standards: Zivilluftfahrzeug-Lärmzulässigkeitverordnung BGBl. 700/1986

B.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: HK36 Top Drawing Set and following approved Design Changes (ÄM – System)

2. Description: Single engine, two-seated cantilever low wing airplane, GFRP-construction, two main wheels on fixed spring bow and steered tail wheel, T-tail, air brakes on upper wing surface

3. Equipment: Minimum Equipment:
1 airspeed indicator (range up to 300 km/h)
1 altimeter with mbar barometric dial
1 magnetic compass with deviation table
1 RPM indicator
1 running time meter
1 oil pressure gauge
1 oil temperature gauge
1 cylinder head temperature gauge
1 fuel quantity gauge
1 manifold pressure gauge
1 fuel pressure control light
1 ammeter
1 4-point harness for each seat

4. Dimensions:

Span	16,2 m
Length	7,1 m
Height	1,76 m
Wing Area	15,3 m²

5. Engines: 1 L 2400 EB 1.C or
1 L 2400 EB 1.AC (see Note 4)
Engine Type Certificate TCDS EASA E.084

5.1 Engine Limits:

Max take-off rotational speed	3200 r.p.m.
Max continuous rotational speed	3000 r.p.m

For power-plants limits refer to Flight Manual,

6. (Reserved)

7. Propellers: 1 mt-Propeller MTV-1-A/L 160-03 Constant Speed

7.2 Settings Low pitch setting/ Static Rpm: 2950 +/-100

8. Fluids:
   8.1 Fuel: AVGAS 100 LL or
   Automotive Gasoline MOGAS,
   min ROZ 96 (see Flight Manual)

   8.2 Oil: "SE" automotive oils in accordance to the API System
   (see Flight Manual)

9. Fluid capacities:

9.1 Fuel:	Standard Fuel Tank	Total:	55 liters
		Usable:	54 liters
	Optional	Usable:	80 liters
		Usable:	79 liters
9.2 Oil:		Maximum:	3.5 liters
		Minimum:	2.25 liters

10 Air Speeds:

Design Manoeuvring Speed v_A:	176 km/h
Maximum rough air speed v_C:	210 km/h.
Never exceed speed v_{NE}:	261 km/h

11. Maximum Operating Altitude: ---

12. Allweather Capability: Day-VFR

13. Maximum Masses:

Take-off	770 kg
Maximum mass of non lifting parts	590 kg

14. Centre of Gravity Range:

Forward limit	318 mm behind Datum
Rear limit:	430 mm behind Datum

15. Datum: wing leading edge at root rib

16. (reserved)

17. Levelling Means: wedge 1000 : 52.5 horizontal on fuselage tube

18. Minimum Flight Crew: 1 (Pilot)

19. Maximum Passenger Seating Capacity: 2

20. (Reserved)

21. Baggage / Cargo Compartments

Behind Rear Seats	12 kg

22. Wheels and Tyres

Main/Tail Wheel Tyre Size	see AMM

B.IV. Operating and Service Instructions

Airplane Flight Manual (AFM)	Airplane Flight Manual, HK 36 "SUPER DIMONA" issued April 1990, BAZ approved Valid for Serial Nos. 36301 and subsequent
Airplane Maintenance Manual (AMM) (incl. Airworthiness Limitations)	Airplane Maintenance Manual, HK 36 "SUPER DIMONA", Doc 3.02.21 or Doc. 3.02.04 (German Version) See Note 5
	Service Information's and Service Bulletins

B.V. Notes

1. Only industrial manufacturing is permitted.

2. All components exposed to direct sunlight, except for areas used for registration markings and warning marks, must basically have a white surface. Deviations in accordance to the maintenance manual are permitted.

3. The installation and use of a differential braking system, in accordance with the manufacturer's SB 42, latest issue, is permitted.

4. Engine type designation in accordance with Limbach Technical Bulletin 17.

5. The HK 36 Series AMM doc. 3.02.21 and 3.02.04 replaces the former singular AMM doc 3.02.01 and 3.02.01E which will be no longer revised. Supplemental supplier manuals which are required for maintenance are listed in the HK Series AMM.

6. Acrobatics, cloud flying, night VFR and intentional spinning are not permitted

SECTION C HK 36 R "SUPER DIMONA"

C.I. General

1. a) Type: H 36 "DIMONA"
   b) Variant: HK 36 R "SUPER DIMONA"

2. Airworthiness Category:
   Utility

3. Type Certificate Holder:
   Diamond Aircraft Industries GmbH
   N.A. Otto-Str. 5
   A-2700 Wiener Neustadt
   Austria

4. Manufacturer:
   Hoffmann Aircraft GesmbH.
   N.A. Otto-Str. 5
   A-2700 Wiener Neustadt
   Austria

   HOAC Austria GesmbH.
   N.A. Otto-Str. 5
   A-2700 Wiener Neustadt
   Austria

   Diamond Aircraft Industries GmbH
   N.A. Otto-Str. 5
   A-2700 Wiener Neustadt
   Austria

5. Certification Application Date : ---

6. BAZ Certification Date : 6. September 1990

   The EASA Type Certificate replaces the Austrian Type Certificate SF 3/82

7. EASA Certification Date: 21. December 2005 (reissue for EASA)

C.II. Certification Basis

1. Reference Date for determining the applicable requirements: ---

2. (Reserved)

3. (Reserved)

4. Certification Basis: JAR-22, Change 4, issued 07-May-1987

5.	Airworthiness Requirements:	JAR-22, Change 4, issued 07-May-1987
6.	Requirements elected to comply:	None
7.	Special Conditions:	CRI O-3 “Tow Cable Retraction mechanism”
8.	Exemptions:	None
9.	Equivalent Safety Findings:	CRI A-9 “Deviations of Serial No. 36307”
10.	Environmental Standards:	Zivilluftfahrzeug-Lärmzulässigkeitverordnung BGBl. 738/1993

C.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: HK36 Top Drawing Set and following approved Design Changes (ÄM – System)

2. Description: Single engine, two-seated cantilever low wing airplane, GFRP-construction, T-tail, side by side seating configuration, fixed two-legged landing gear, air brakes on upper wing surface

3. Equipment: Minimum Equipment:
1 airspeed indicator (range up to 300 km/h)
1 altimeter with mbar barometric dial
1 magnetic compass with deviation table
1 RPM indicator
1 running time meter
1 oil pressure gauge
1 oil temperature gauge
1 cylinder head temperature or coolant temperature gauge (MÄM 36-450 installed)
1 fuel quantity gauge
1 manifold pressure gauge
1 fuel pressure control light
1 ammeter
1 at least 4-point harness for each seat

4. Dimensions:

Span	16,2 m
Length	7,22 m
Height	1,76 m
Wing Area	15,3 m²

5. Engines: Rotax 912 A2 or
Rotax 912 A3
Engine Type Certificate: EASA E.121

5.1 Engine Limits:

Max take-off rotational speed	5800 r.p.m.
Max continuous rotational speed	5500 r.p.m

For power-plants limits refer to Flight Manual,

6. (Reserved)

7. Propellers:

For Rotax Engine 912 A2:

1.mt-Propeller MTV-1-A/170-08, Constant speed

2. Hoffmann HO14-170 S 123

3. mt-Propeller MT-170R125-2A
Propeller type Certificate : EASA P.006

For Rotax Engine 912 A3:

1. Hoffmann HOV-352F-S1/S170FQ

2. mt-Propeller MTV-21-A-C-F/CF 175-05, see Note 9

Settings see AMM for the relevant propeller combination

8. Fluids:

8.1 Fuel: AVGAS 100 LL or
Automotive Gasoline MOGAS,
Leaded min ROZ 96 unleaded min ROZ 95
(see Flight Manual and Note 7)

8.2 Oil: "SF" or "SG" automotive oils in accordance to the API System (see Flight Manual)

9. Fluid capacities:

9.1 Fuel:	Standard Fuel Tank	Total:	55 liters
		Usable:	54 liters
	Optional	Total:	80 liters
		Usable:	79 liters
9.2 Oil:		Maximum:	3 liters
		Minimum:	2 liters

9.3 Coolant: Anti Freeze Mixture acc AFM 2,8 liters

10. Air Speeds:

Design Manoeuvring Speed v_A:	176 km/h
Maximum rough air speed Vra):	210 km/h
Never exceed speed v_{NE}:	261 km/h

11. Maximum Operating Altitude: ---

12. Allweather Capability: Day-VFR see Note 4

13. Maximum Masses:

Take-off	770 kg
Maximum mass of non lifting parts	590 kg

14. Centre of Gravity Range:

Forward limit	318 mm behind Datum
Rear limit:	430 mm behind Datum

15. Datum:	wing leading edge at the root rib
16. (reserved)	
17. Levelling Means:	wedge 1000 : 52.5 horizontal to fuselage tube
18. Minimum Flight Crew:	1 (Pilot)
19. Maximum Passenger Seating Capacity:	2
20. (Reserved)	
21. Baggage / Cargo Compartments	
Behind Seats	12 kg
22. Wheels and Tyres	see AMM

C.IV. Operating and Service Instructions

Airplane Flight Manual (AFM)	Airplane Flight Manual, HK 36 R "SUPER DIMONA", issued June 1990, BAZ approved, valid for Serial Nos. 36301 and subsequent if Rotax engine 912 A2 is installed Airplane Flight Manual, HK 36 R "SUPER DIMONA", Doc. No. 3.01.04, ACG approved on 22. July 1994, latest effective issue valid for Serial Nos. 36301 and subsequent if Rotax engine 912 A3 is installed Flughandbuch für den Motorsegler HK 36 R "SUPER DIMONA", Doc. No. 3.01.03, ACG approved on 03. May 2001, latest effective issue valid for S/N 36307 if Rotax 912 A3 and mt-Propeller MTV-21-A-C-F/CF175-05 are installed
Airplane Maintenance Manual (AMM) (incl. Airworthiness Limitations)	Airplane Maintenance Manual, HK 36 "SUPER DIMONA", Doc 3.02.21 or Doc. 3.02.04 (German Version) See Note 5
	Service Informations and Service Bulletins

C.V. Notes

1. Only industrial manufacturing is permitted

2. All components exposed to direct sunlight, except for areas used for registration markings and warning marks, must basically have a white surface. Deviations, carried out in accordance with the Maintenance Manual, are permitted.

3. The installation and use of a differential braking system, in accordance with SB 42, latest effective issue, by the type certificate holder is permitted

4. Acrobatics, cloud flying, night VFR and intentional spinning are not permitted

5. The HK 36 Series AMM doc. 3.02.21 and 3.02.04 replaces the former singular AMM doc 3.02.01 and 3.02.01E which will be no longer revised. Supplemental supplier manuals which are required for maintenance are listed in the HK Series AMM.

6. The use of the type HK 36 R "Super Dimona" as a towing airplane in accordance with SB No. 40, latest effective issue, is permitted

7. The use of unleaded fuel in accordance with SB No. 36 is permitted

8. The installation and use of the type HK 36 R as a towing airplane with a tow rope retraction unit in accordance with manufacturer's SB No. 61, latest effective issue, is permitted

9. The propeller is only approved for S/N 36.307. The deviations from the basic model are defined in Doc. No. 3.07.01, Chapter R36-003 "Design Deviations". The retrofit in accordance with RÄM 36-003 is permitted.

Propeller type:	mt-Propeller MTV-21-A-C-F/CF175-05	
	Data Sheet No.:	LBA 32.130/86
	Diameter:	1750 mm ± 0 mm
	Low Pitch:	12°±0.2°
	Starting Pitch:	14°±1°
	Feathered Pitch:	83°±1°
	Ctrwts. At Low Pitch:	28°±1°
	High Pitch:	23°±1°
	Propeller RPM is reduced 1:2.273 to engine RPM	

SECTION D HK 36 TS

D.I. General

1.	a) Type: b) Variant:	H 36 “DIMONA” HK 36 TS
2.	Airworthiness Category:	Utility
3.	Type Certificate Holder:	Diamond Aircraft Industries GmbH N.A. Otto-Str. 5 A-2700 Wiener Neustadt Austria
4.	Manufacturer:	Diamond Aircraft Industries GmbH N.A. Otto-Str. 5 A-2700 Wiener Neustadt Austria
5.	Certification Application Date :	---
6.	ACG Certification Date :	6. March 1996
	The EASA Type Certificate replaces the Austrian Type Certificate SF 3/82	
7.	EASA Certification Date:	21. December 2005 (reissue for EASA)

D.II. Certification Basis

1.	Reference Date for determining the applicable requirements:	---
2.	(Reserved)	
3.	(Reserved)	
4.	Certification Basis:	JAR-22, Change 4, Status: 7. May 1987 Amendment 22/90/1, Amendment 22/91/1
5.	Airworthiness Requirements:	JAR-22, Change 4, Status: 7. May 1987
6.	Requirements elected to comply:	None
7.	Special Conditions:	CRI E-1 “Propeller feathering control” CRI O-1 “Use as a Tow Plane” CRI O-3 “Tow Cable Retraction Mechanism”
8.	Exemptions:	None
9.	Equivalent Safety Findings:	CRI D-1 “Middle air brake stop” CRI E-2 “Propeller Type Definition”

10. Environmental Standards: Zivilluftfahrzeug-Lärmzulässigkeitverordnung BGBl. 738/1993

D.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Drawing List HK 36 TS Doc. 3.08.01 dated 10.Jan.1996 including Design Changes 1 and following List of Design Changes (ÄM) HK 36 TS

2. Description: Single engine, two-seated cantilever low wing airplane, GFK/CFK-construction, T-tail, side by side seating configuration, tail wheel, fixed two-legged landing gear, air brakes on upper wing surface

3. Equipment: Minimum Equipment:
1 airspeed indicator (range up to 300 km/h)
1 altimeter with mbar barometric dial
1 magnetic compass with deviation table
1 RPM indicator (Prop RPM)
1 running time meter
1 oil pressure gauge
1 oil temperature gauge
1 cylinder head temperature or coolant temperature gauge (MÄM 36-450 installed)
1 fuel quantity gauge
1 manifold pressure gauge
1 fuel pressure control light
1 ammeter
1 4-point harness for each seat

4. Dimensions:

Span	16,33 m (incl. Winglet)
Length	7,28 m
Height	1,78 m
Wing Area	15,3 m²

5. Engines: Designation: Rotax 912 A3
Type Certificate: EASA E.121

5.1 Engine Limits:

Max take-off rotational speed	5800 r.p.m.
Max continuous rotational speed	5500 r.p.m

For power-plants limits refer to Flight Manual,

6. (Reserved)

7. Propellers: mt-Propeller MTV-21-A-C-F/CF175-05
Data Sheet No.: LBA 32.130/86

Settings

Low pitch setting:	12°±0.2°
Starting Pitch:	14°±1°
Feathered Pitch:	83°±1°
Ctrwts. At Low Pitch:	28°±1°
High pitch setting:	23°±1°

Gearbox Ratio 1:2,273

8. Fluids:
8.1 Fuel: AVGAS 100 LL or
Automotive Gasoline MOGAS,
Leaded min ROZ 96 unleaded min ROZ 95

(see Flight Manual)

8.2 Oil: "SF" or "SG" automotive oils in accordance to the API System (see Flight Manual)

9. Fluid capacities:

9.1 Fuel:	Standard Fuel Tank	Total:	55 liters
		Usable:	54 liters
	Optional	Total:	79 liters
		Usable:	77 liters
9.2 Oil:		Maximum:	3 liters
		Minimum:	2 liters
9.3 Coolant:		Anti Freeze Mixture acc AFM	2,8 liters

10. Air Speeds:

Design Manoeuvring Speed v_A:	176 km/h
Maximum rough air speed Vra):	210 km/h
Never exceed speed v_{NE}:	261 km/h

11. Maximum Operating Altitude: ---

12. Allweather Capability: Day-VFR see Note 4

13. Maximum Masses:

Take-off	770 kg
Maximum mass of non lifting parts	590 kg
for Serial No. 36511 and 36517 and on	610 kg

14. Centre of Gravity Range:

Forward limit	318 mm behind Datum
Rear limit:	430 mm behind Datum

15. Datum: wing leading edge at the root rib

16. (reserved)

17. Levelling Means: wedge 1000 : 52.5 horizontal to fuselage tube

18. Minimum Flight Crew: 1 (Pilot)

19. Maximum Passenger Seating Capacity: 2

20. (Reserved)

21. Baggage / Cargo Compartments

Behind Seats 12 kg

22. Wheels and Tyres see AMM

D.IV. Operating and Service Instructions

Airplane Flight Manual (AFM)	Airplane Flight Manual, HK 36 TS, Doc. No. 3.01.06, ACG approved, issued 30. January 1996 (see Note. 9)
Airplane Maintenance Manual (AMM) (incl. Airworthiness Limitations)	Airplane Maintenance Manual, HK 36 "SUPER DIMONA", Doc 3.02.21 or Doc. 3.02.04 (German Version) See Note 5
	Service Informations and Service Bulletins

D.V. Notes

1. Only industrial manufacturing is permitted

2. All components exposed to direct sunlight, except for areas used for registration markings and warning marks, must basically have a white surface. Deviations in accordance to the maintenance manual are permitted.

3. Certification valid for Serial Nos. 36415 – 36416 and Serial Nos. 36.501 and subsequent, excluding Serial No 36.713, 36.717, 36.719, 36.725 and 36.729.

   SNo. 36.415 and 36.416 have the following deviations according to HOAC Document No. 3.07.101, Chapter 2:
   - Fuselage structure
   - Landing gear mount
   - Horizontal stabilizer structure
   - Tank drain
   - Electric bonding.

4. Acrobatics, cloud flying, night VFR and intentional spinning are not permitted

5. The HK 36 Series AMM doc. 3.02.21 and 3.02.04 replaces the former singular AMM doc 3.02.01 and 3.02.01E which will be no longer revised. Supplemental supplier manuals which are required for maintenance are listed in the HK Series AMM

6. The engine Rotax 912 A3 has to be modified in accordance with Rotax SB 912-11, ACG approved on 29. February 1996, with Propeller Governor WOODWARD A210790 or Rotax SB 912-24, ACG approved, with Propeller Governor McCauley DCFU290D17B/T1.

7. The installation and use of the type HK 36 TS as a towing airplane in accordance with manufacturer's SB No. 40, latest effective issue, is permitted

8. The installation and use of a differential braking system in accordance with manufacturer's SB No. 42, latest effective issue, is permitted

9. For Serial Nos. 36.517 and subsequent Airplane Flight Manual HK 36 TS, Doc. No. 3.01.06, Revision 1 or later, ACG approved, is required

10. The change of the propeller designation from MTV-21-A-C-F/C175-05 to MTV-21-A-C-F/CF175-05 in accordance with SB No. 52, ACG approved, is permitted.

11. The installation of a tow rope retraction unit and use of the type HK 36 TS as a towing airplane in accordance with manufacturer's SB No. 61, latest effective issue, is permitted.

SECTION E HK 36 TC

E.I. General

1.	a) Type: b) Variant:	H 36 “DIMONA” HK 36 TC
2.	Airworthiness Category:	Utility
3.	Type Certificate Holder:	Diamond Aircraft Industries GmbH N.A. Otto-Str. 5 A-2700 Wiener Neustadt Austria
4.	Manufacturer:	Diamond Aircraft Industries GmbH N.A. Otto-Str. 5 A-2700 Wiener Neustadt Austria
5.	Certification Application Date:	18. March 1996
6.	ACG Certification Date :	12. July 1996
	The EASA Type Certificate replaces the Austrian Type Certificate SF 3/82	
7.	EASA Certification Date:	21. December 2005 (reissue for EASA)

E.II. Certification Basis

1.	Reference Date for determining the applicable requirements:	---
2.	(Reserved)	
3.	(Reserved)	
4.	Certification Basis:	JAR-22, Change 4, Status: 7. May 1987 Amendment 22/90/1, Amendment 22/91/1 CRI A-1 HK36TC and HK36TC with Rotax 912S
5.	Airworthiness Requirements:	JAR-22, Change 4, Status: 7. May 1987
6.	Requirements elected to comply:	None
7.	Special Conditions:	CRI E-1 “Propeller feathering control” CRI O-1 “Use as a Tow Plane” CRI O-2 “Tow Cable Retraction Mechnism”
8.	Exemptions:	None

9. Equivalent Safety Findings:	CRI D-1 “Middle air brake stop” CRI E-2 “Propeller Type Definition”
10. Environmental Standards:	Zivilluftfahrzeug-Lärmzulässigkeitverordnung BGBl. 738/1993

E.III. Technical Characteristics and Operational Limitations

1. Type Design Definition:	Drawing List HK 36 TC Doc. 3.08.01 dated 12.July1996 including Design Changes 14 and following List of Design Changes (ÄM) HK 36 T**
2. Description:	Single engine, two-seated cantilever low wing airplane, GFK/CFK-construction, T-tail, side by side seating configuration, fixed two-legged tri cycle landing gear, air brakes on upper wing surface
3. Equipment:	Minimum Equipment: 1 airspeed indicator (range up to 300 km/h) 1 altimeter with mbar barometric dial 1 magnetic compass with deviation table 1 RPM indicator (propeller) 1 running time meter 1 oil pressure gauge 1 oil temperature gauge 1 cylinder head temperature or coolant temperature gauge (MÄM 36-450 installed) 1 fuel quantity gauge 1 manifold pressure gauge 1 fuel pressure control light 1 ammeter 4-point harness for each seat
4. Dimensions:	
Span	16,33 m including Winglet
Length	7,28 m
Height	1,78 m
Wing Area	15,3 m²
5. Engines:	Rotax 912 A3 Type Certificate: EASA E.121 or Rotax 912 S3 Type Certificate: EASA E.121
5.1 Engine Limits:	Max. Engine Speed: 5800 RPM Max. Cont. Engine Speed: 5500 RPM for Rotax 912 S3 see Note 11

For power-plants limits refer to Flight Manual,

6. (Reserved)

7. Propellers : 1 mt-Propeller MTV-21-A-C-F/CF175-05
Data Sheet No.: LBA 32.130/86

Settings

For Rotax 912 A3:
Low Pitch: 12°±0.2°
Starting Pitch: 14°±1°
Feathered Pitch: 83°±1°
Ctrwts. At Low Pitch: 28°±1°
High Pitch: 23°±1°
Engine Gearbox Ratio: 1:2,273
Diameter 1750 mm +/- 0

For Rotax 912 S3
Low Pitch: 14°±0.2°
Starting Pitch: 14°±1°
Feathered Pitch: 83°±1°
Ctrwts. At Low Pitch: 28°±1°
High Pitch: 20°±1°
Engine Gearbox Ratio: 1:2,4286
Diameter 1750 mm +/- 0

8. Fluids:
8.1 Fuel: AVGAS 100 LL or
Automotive Gasoline MOGAS,
Leaded min ROZ 96 unleaded min ROZ 95
(see Flight Manual)

8.2 Oil: "SF" or "SG" automotive oils in accordance to the API System (see Flight Manual)

9. Fluid capacities:
9.1 Fuel: Standard Fuel Tank Total: 55 liters
Usable: 54 liters

Optional Total: 79 liters
Usable: 77 liters

9.2 Oil: Maximum: 3 liters
Minimum: 2 liters

9.3 Coolant: Anti Freeze Mixture acc AFM 2,8 liters

10. Air Speeds:
Design Manoeuvring Speed v_A: 176 km/h

Maximum rough air speed Vra): 210 km/h

Never exceed speed v_{NE}: 261 km/h

11. Maximum Operating Altitude: ---

12. Allweather Capability: Day-VFR see Note 4

13. Maximum Masses:
Take-off 770 kg

Maximum mass of non lifting parts 610 kg
for Serial No. 36505 590 kg

14. Centre of Gravity Range:	
Forward limit	318 mm behind Datum
Rear limit:	430 mm behind Datum
15. Datum:	wing leading edge at Y = 0,6 m
16. (reserved)	
17. Levelling Means:	wedge 1000 : 52 horizontal to fuselage tube
18. Minimum Flight Crew:	1 (Pilot)
19. Maximum Passenger Seating Capacity:	2
20. (Reserved)	
21. Baggage / Cargo Compartments	
Behind Seats	12 kg
22. Wheels and Tyres	see AMM

E.IV. Operating and Service Instructions

Airplane Flight Manual (AFM)	Airplane Flight Manual, HK 36 TC, Doc. No. 3.01.10-E, ACG approved, for powerplant Rotax 912 A3 issued 15. May 1996 (see Note 8) Airplane Flight Manual, HK 36 TC, Doc. No. 3.01.12-E, ACG approved, for powerplant 2 Rotax 912 S3 issued 09. January 2002 see Note 11)
Airplane Maintenance Manual (AMM) (incl. Airworthiness Limitations)	Airplane Maintenance Manual, HK 36 “SUPER DIMONA”, Doc 3.02.21 or Doc. 3.02.04 (German Version) See Note 5 Service Informations and Service Bulletins

E.V. Notes

1. Only industrial manufacturing is permitted.

2. All components exposed to direct sunlight, except for areas used for registration markings and warning marks, must basically have a white surface. Deviations in accordance to the maintenance manual are permitted.

3. Certification valid for Serial No. 36.505 and Serial Nos. 36.517 and subsequent except Serial Nos. 36.713, 36.717, 36.719, 36.725, 36.729 and 36.735.

   Serial No. 36.505 has the following major deviations according to Diamond Doc. No. 3.07.151, Chapter 2:
   - Wing structure
   - Main bulkhead structure
   - Air brake system

4. Acrobatics, cloud flying, night VFR and intentional spinning are not permitted

5. The HK 36 Series AMM doc. 3.02.21 and 3.02.04 replaces the former singular AMM doc 3.02.01 and 3.02.01E which will be no longer revised. Supplemental supplier manuals which are required for maintenance are listed in the HK Series AMM.

6. The engine Rotax 912 A3 has to be modified in accordance with Rotax SB 912-11, ACG approved on 29. February 1996, with Propeller Governor WOODWARD A210790 or Rotax SB 912-24, ACG approved, with Propeller Governor McCauley DCFU290D17B/T1.

7. The installation and use of the type HK 36 TC as a towing airplane in accordance with manufacturer's SB No. 40, latest effective issue, is permitted.

8. For Serial No. 36.505, in addition to the Airplane Flight Manual Supplement 4 is valid, ACG approved on 7. October 1996

9. The change of the propeller designation from MTV-21-A-C-F/C175-05 to MTV-21-A-C-F/CF175-05 in accordance with SB No. 52, ACG approved, is permitted.

10. The installation of a tow-rope retraction device in accordance with SB No. 61 of the manufacturer, in conjunction with SB No. 40, use as a tow-plane, is permitted.

11. The optional installation of the engine Rotax 912 S3 by the manufacturer in accordance with OÄM36-200 is permitted for serial no. 36.640 and subsequent. The retrofit installation between Engine 1 and Engine 2 is permitted for all effective serial numbers, in accordance with OSB36-078.

SECTION F HK 36 TTS

F.I. General

1.	a) Type: b) Variant:	H 36 “DIMONA” HK 36 TTS
2.	Airworthiness Category:	
3.	Type Certificate Holder:	Diamond Aircraft Industries GmbH N.A. Otto-Str. 5 A-2700 Wiener Neustadt Austria
4.	Manufacturer:	Diamond Aircraft Industries GmbH N.A. Otto-Str. 5 A-2700 Wiener Neustadt Austria
5.	Certification Application Date:	7. May 1996
6.	ACG Certification Date :	20. December 1996

The EASA Type Certificate replaces the Austrian Type Certificate SF 3/82

7.	EASA Certification Date:	21. December 2005 (reissue for EASA)

F.II. Certification Basis

1.	Reference Date for determining the applicable requirements:	---
2.	(Reserved)	
3.	(Reserved)	
4.	Certification Basis:	JAR-22, Change 5 CRI A-1 HK36TTC and HK36TTS
5.	Airworthiness Requirements:	JAR-22, Change 5
6.	Requirements elected to comply:	None
7.	Special Conditions:	CRI E-1 “Propeller feathering control” CRI O-1 “Use as a Tow Plane” CRI O-3 “Tow Cable Retraction Mechnism”
8.	Exemptions:	None
9.	Equivalent Safety Findings:	CRI D-1 “Middle air brake stop” CRI E-2 “Propeller Type Definition”

CRI G-1 “Engine Operating Limitation”

10. Environmental Standards: Zivilluftfahrzeug-Lärmzulässigkeitverordnung BGBl. 738/1993

F.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Drawing List HK 36 T** Doc. 3.08.01 dated 20.December 1996 including Design Changes up to 57 and following List of Design Changes (ÄM) HK 36 T**

2. Description: Single engine, two-seated cantilever low wing airplane, GFRP-construction, T-tail, side by side seating configuration, fixed two-legged landing gear, tail wheel, air brakes on upper wing surface

3. Equipment: Minimum Equipment:
1 airspeed indicator (range up to 300 km/h)
1 altimeter with mbar barometric dial
1 magnetic compass with deviation table
1 RPM indicator (Propeller)
1 running time meter
1 oil pressure gauge
1 oil temperature gauge
1 cylinder head temperature or coolant temperature gauge (MÄM 36-450 installed)
1 fuel quantity gauge
1 manifold pressure gauge
1 fuel pressure control light
1 ammeter
1 4-point harness for each seat
1 temperature control light (EGT, airbox)
1 generator warning light
1 TCU control light
1 TCU warning light

4. Dimensions:

Span	16,33 m including Winglet
Length	7,28 m
Height	1,78 m
Wing Area	15,3 m²

5. Engines: Designation: Rotax 914 F3 or F4
Type Certificate: E.122

5.1 Engine Limits:

Max take-off (5 min)	5800 r.p.m/ 38,4 inHg or 39,0 inHg max. 39,9 in Hg.
Max continuous	5500 r.p.m/34,0 inHg or 34,9 inHg max. 35,4 inHg

see Note 11

6. (Reserved)

7. Propellers: 1 mt-Propeller MTV-21-A-C-F/CF175-05
Data Sheet No.: LBA 32.130/86

Settings

Low pitch setting:	16.5°±0.2°
High pitch setting:	28°±1°
Start lock setting	19°±1°
Feather setting	83°±1°
Ctrwts at low pitch:	32,5°±1°
Diameter	1750 mm±0

8. Fluids :

8.1 Fuel : AVGAS 100 LL or
EN 228 Super /Super Plus unleaded min ROZ 95
(see Flight Manual)

8.2 Oil: "SF" or "SG" + "GL4" or "GL5"automotive oils in accordance to the API System, the use of full synthetic oils is not approved (see Flight Manual)

9. Fluid capacities:

9.1 Fuel:	Standard Fuel Tank	Total:	55 liters
		Usable:	54 liters
	Optional	Total:	79 liters
		Usable:	77 liters
9.2 Oil:		Maximum:	3 liters
		Minimum:	2 liters
9.3 Coolant:		Anti Freeze Mixture acc AFM 2,8 liters	

10. Air Speeds:

Design Manoeuvring Speed v_A:	176 km/h
Maximum rough air speed Vra:	210 km/h
Never exceed speed v_{NE}:	261 km/h
Air Brake in Middle Stop Vabf:	150 km/h

11. Maximum Operating Altitude: ---

12. Allweather Capability: Day-VFR see Note 4

13. Maximum Masses:

Take-off	770 kg
Maximum mass of non lifting parts	590 kg
for Serial No. 36511 and 36517 and subsequent	610 kg

14. Centre of Gravity Range:

Forward limit	318 mm behind Datum
Rear limit:	430 mm behind Datum

15. Datum: wing leading edge at Y = 0,6 m

16. (reserved)

17. Levelling Means: wedge 1000 : 52 horizontal to fuselage tube

18. Minimum Flight Crew: 1 (Pilot)

19. Maximum Passenger Seating Capacity: 2

20. (Reserved)

21. Baggage / Cargo Compartments

    Behind Seats 12 kg

22. Wheels and Tyres see AMM

F.IV. Operating and Service Instructions

Airplane Flight Manual (AFM)	Airplane Flight Manual, HK 36 TTS, Doc. No. 3.01.15-E, ACG approved, issued 03. March 1997
Airplane Maintenance Manual (AMM) (incl. Airworthiness Limitations)	Airplane Maintenance Manual, HK 36 "SUPER DIMONA", Doc 3.02.21 or Doc. 3.02.04 (German Version) See Note 5
	Service Informations and Service Bulletins

F.V. Notes

1. Only industrial manufacturing is permitted

2. All components exposed to direct sunlight, except for areas used for registration markings and warning marks, must basically have a white surface. Deviations, carried out in accordance with the Maintenance Manual, are permitted.

3. Certification valid for Serial Nos. 36.393 and 36.511 and subsequent (see Note 10), excluding Sno. 36.713, 36.717, 36.719, 36.725 and 36.729.

4. Acrobatics, cloud flying, night VFR and intentional spinning are not permitted

5. The HK 36 Series AMM doc. 3.02.21 and 3.02.04 replaces the former singular AMM doc 3.02.01 and 3.02.01E which will be no longer revised. Supplemental supplier manuals which are required for maintenance are listed in the HK Series AMM.

6. The engine Rotax 914 F has to be modified, in accordance with Rotax SB 914-01, ACG approved, with Propeller Governor WOODWARD A210790, or Rotax SB 914-09, ACG approved, with Propeller Governor McCauley DCFU290D17B/T2.

7. The installation and use of the type HK 36 TTS as a towing airplane, in accordance with manufacturer's SB No. 40, latest effective issue, is permitted

8. The installation and use of a differential braking system, in accordance with manufacturer's SB No. 42, latest effective issue, is permitted

9. The installation of a tow-rope retraction mechanism, in accordance with the manufacturer's SB No. 61, latest revision, and the operation as tow plane are permitted.

10. Serial no. 36393 has deviations, in accordance with DAI Doc. No. 3.07.201, Chapter 2. In addition, Supplement No. 4 to the Airplane Flight Manual, ACG approved, must be followed.

11. Use of different engine TCU-versions, in accordance with the Diamond SB No. 66, is permitted.

SECTION G HK 36 TTC

G.I. General

1.	a) Type: b) Variant:	H 36 "DIMONA" HK 36 TTC
2.	Airworthiness Category:	Utility
3.	Type Certificate Holder:	Diamond Aircraft Industries GmbH N.A. Otto-Str. 5 A-2700 Wiener Neustadt Austria
4.	Manufacturer:	Diamond Aircraft Industries GmbH N.A. Otto-Str. 5 A-2700 Wiener Neustadt Austria
5.	Certification Application Date:	7. May 1996
6.	ACG Certification Date:	20. December 1996

The EASA Type Certificate replaces the Austrian Type Certificate SF 3/82

7.	EASA Certification Date:	21. December 2005 (reissue for EASA)

G.II. Certification Basis

1.	Reference Date for determining the applicable requirements:	---
2.	(Reserved)	
3.	(Reserved)	
4.	Certification Basis:	JAR-22, Change 5 CRI A-1 HK36TTC and HK36TTS
5.	Airworthiness Requirements:	JAR-22, Change 5
6.	Requirements elected to comply:	None
7.	Special Conditions:	CRI E-1 "Propeller feathering control" CRI O-1 "Use as a Tow Plane" CRI O-2 "Tow Cable Retraction Mechanism"
8.	Exemptions:	None
9.	Equivalent Safety Findings:	CRI D-1 "Middle air brake stop" CRI E-2 "Propeller Type Definition"

CRI G-1 “Engine Operating Limitation”

10. Environmental Standards: Zivilluftfahrzeug-Lärmzulässigkeitverordnung BGBl. 738/1993

G.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Drawing List HK 36 T** Doc. 3.08.01 dated 20.December 1996 including Design Changes up to 57 and following List of Design Changes (ÄM) HK 36 T**

2. Description: Single engine, two-seated cantilever low wing airplane, GFRP-construction, T-tail, side by side seating configuration, fixed two-legged tri cycle landing gear, air brakes on upper wing surface

3. Equipment: Minimum Equipment:
1 airspeed indicator (range up to 300 km/h)
1 altimeter with mbar barometric dial
1 magnetic compass with deviation table
1 RPM indicator
1 running time meter
1 oil pressure gauge
1 oil temperature gauge
1 cylinder head temperature or coolant temperature gauge (MÄM 36-450 installed)
1 fuel quantity gauge
1 manifold pressure gauge
1 fuel pressure control light
1 ammeter
1 4-point harness for each seat
1 temperature control light (EGT, airbox)
1 generator warning light
1 TCU control light
1 TCU warning light

4. Dimensions:

Span	16,33 m including Winglet
Length	7,28 m
Height	1,78 m
Wing Area	15,3 m²

5. Engines: Designation: Rotax 914 F3 or F4
Type Certificate: EASA A.122

5.1 Engine Limits:

Max take-off (5 min)	5800 r.p.m/ 38,4 inHg or 39,0 inHg max. 39,9 in Hg.
Max continuous	5500 r.p.m/34,0 inHg or 34,9 inHg max. 35,4 inHg

see Note 9

6. (Reserved)

7. Propellers: 1 mt-Propeller MTV-21-A-C-F/CF175-05
Data Sheet No.: LBA 32.130/86

Settings

Low pitch setting:	16.5°±0.2°
High pitch setting:	28°±1°
Start lock setting	19°±1°
Feather setting	83°±1°
Ctrwts at low pitch:	32,5°±1°
Diameter	1750 mm±0
Gearbox Ratio	1: 2,4286

8. Fluids :

8.1 Fuel : AVGAS 100 LL or
EN 228 Super /Super Plus unleaded min ROZ 95
(see Flight Manual)

8.2 Oil: "SF" or "SG" + "GL4" or "GL5"automotive oils in accordance to the API System, the use of full synthetic oils is not approved (see Flight Manual)

9. Fluid capacities:

9.1 Fuel:	Standard Fuel Tank	Total:	55 liters
		Usable:	54 liters
	Optional	Total:	79 liters
		Usable:	77 liters
9.2 Oil:		Maximum:	3 liters
		Minimum:	2 liters
9.3 Coolant:		Anti Freeze Mixture acc AFM	2,8 liters

10. Air Speeds:

Design Manoeuvring Speed v_A:	176 km/h
Maximum rough air speed Vra:	210 km/h
Never exceed speed v_{NE}:	261 km/h
Air Brake in Middle Stop Vabf:	150 km/h

11. Maximum Operating Altitude: ---

12. Allweather Capability: Day-VFR see Note 4

13. Maximum Masses:

Take-off	770 kg
Maximum mass of non lifting parts	610 kg

14. Centre of Gravity Range:

Forward limit	318 mm behind Datum
Rear limit:	430 mm behind Datum

15. Datum:	wing leading edge at Y = 0,6 m
16. (reserved)	
17. Levelling Means:	wedge 1000 : 52 horizontal to fuselage tube
18. Minimum Flight Crew:	1 (Pilot)
19. Maximum Passenger Seating Capacity:	2
20. (Reserved)	
21. Baggage / Cargo Compartments	
Behind Seats	12 kg
22. Wheels and Tyres	see AMM

G.IV. Operating and Service Instructions

Airplane Flight Manual (AFM)	Airplane Flight Manual, HK 36 TTC, Doc. No. 3.01.20, ACG approved, issued 30 July 1996
Airplane Maintenance Manual (AMM) (incl. Airworthiness Limitations)	Airplane Maintenance Manual, HK 36 “SUPER DIMONA”, Doc 3.02.21 or Doc. 3.02.04 (German Version) See Note 5
	Service Informations and Service Bulletins

G.V. Notes

1. Only industrial manufacturing is permitted.

2. All components exposed to direct sunlight, except for areas used for registration markings and warning marks, must basically have a white surface. Deviations, carried out in accordance with the Maintenance Manual, are permitted.

3. Certification is valid for Serial Nos. 36.518 and subsequent except nos. 36.713, 36.717, 36.719, 36.725, 36.729 and 36.735.

4. Acrobatics, cloud flying, night VFR and intentional spinning are not permitted

5. The HK 36 Series AMM doc. 3.02.21 and 3.02.04 replaces the former singular AMM doc 3.02.01 and 3.02.01E which will be no longer revised. Supplemental supplier manuals which are required for maintenance are listed in the HK Series AMM.

6. The engine Rotax 914 F has to be modified in accordance with Rotax SB 914-01, ACG approved, with Propeller Governor WOODWARD A210790, or Rotax SB 912-24, ACG approved, with Propeller Governor McCauley DCFU290D17B/T2.

7. The installation and use of the type HK 36 TTC as a towing airplane in accordance with manufacturer’s SB No. 40, latest effective issue, is permitted.

8. The installation of a tow-rope retraction device, in accordance with SB No. 61 of the manufacturer, in conjunction with SB No. 40; use as a tow-plane, is permitted.

9. Use of different engine TCU-versions, in accordance with the Diamond SB No. 66, is permitted..

SECTION H HK 36 TTC-ECO

H.I. General

1.	a) Type: b) Variant:	H 36 “DIMONA” HK 36 TTC-ECO
2.	Airworthiness Category:	Utility
3.	Type Certificate Holder:	Diamond Aircraft Industries GmbH N.A. Otto-Str. 5 A-2700 Wiener Neustadt Austria
4.	Manufacturer:	Diamond Aircraft Industries GmbH N.A. Otto-Str. 5 A-2700 Wiener Neustadt Austria
5.	Certification Application Date:	26. March 1997
6.	ACG Certification Date :	10. June 1998

The EASA Type Certificate replaces the Austrian Type Certificate SF 3/82

7.	EASA Certification Date:	21. December 2005 (reissue for EASA)

H.II. Certification Basis

1.	Reference Date for determining the applicable requirements:	---
2.	(Reserved)	
3.	(Reserved)	
4.	Certification Basis:	CRI A-1 Type Certification Basis
5.	Airworthiness Requirements:	JAR-22, Change 5, issued 28-Oct-1995 JAR-1, Change 5, issued 15-Jul-1996
6.	Requirements elected to comply:	None
7.	Special Conditions:	CRI E-1 Propeller Feathering Control CRI G-1 Engine Operating Limitation CRI O-1 Use as Tow-plane
8.	Exemptions:	None
9.	Equivalent Safety Findings:	CRI E-2 Propeller Type Definition

CRI D-1 Middle Air brake stop
CRI E-3 Fuel System

10. Environmental Standards: Zivilluftfahrzeug-Lärmzulässigkeitverordnung BGBl. 738/1993

H.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Drawing List HK 36 T** Doc. 3.08.01 dated 20.December 1996 including Design Changes up to 57 and following List of Design Changes (ÄM) HK 36 T**

2. Description: Single engine, two-seated cantilever low wing airplane, GFRP-construction, T-tail, side by side seating configuration, fixed two-legged tri cycle landing gear, air brakes on upper wing surface, wing tanks

3. Equipment: Minimum Equipment:
1 airspeed indicator (range up to 300 km/h)
1 altimeter with mbar barometric dial
1 magnetic compass with deviation table
1 RPM indicator (Showing engine RPM)
1 running time meter
1 oil pressure indicator
1 oil temperature indicator
1 cylinder head temperature or coolant temperature gauge (MÄM 36-450 installed)
2 fuel quantity indicators
1 "Low Fuel" caution light
1 manifold pressure indicator
1 fuel pressure warning light
1 ammeter
1 4-piece harness for each seat
1 temperature control light (EGT, airbox)
1 generator warning light
1 TCU warning light
1 TCU control light

4. Dimensions:

Span	16,33 m including Winglet
Length	7,28 m
Height	1,78 m
Wing Area	15,3 m²

5. Engines: Designation: Rotax 914 F3 or F4
Type Certificate: EASA E.122

5.1 Engine Limits:

Max take-off (5 min)	5800 r.p.m/ 38,4 inHg or 39,0 inHg max. 39,9 in Hg.
Max continuous	5500 r.p.m/34,0 inHg or 34,9 inHg max. 35,4 inHg

see Note 9

6. (Reserved)

7. Propellers: 1 mt-Propeller MTV-21-A-C-F/CF175-05
Data Sheet No.: LBA 32.130/86

Settings

Low pitch setting:	16.5°±0.2°
High pitch setting:	28°±1°
Start lock setting	19°±1°
Feather setting	83°±1°
Ctrwts at low pitch:	32,5°±1°
Diameter	1750 mm±0
Gearbox Ratio	1: 2,4286

8. Fluids :

8.1 Fuel : AVGAS 100 LL or
EN 228 Super /Super Plus unleaded min ROZ 95
(see Flight Manual)

8.2 Oil: "SF" or "SG" + "GL4" or "GL5"automotive oils in accordance to the API System, the use of full synthetic oils is not approved (see Flight Manual)

9. Fluid capacities:

9.1 Fuel: Total: 110 (2x55) liters
Usable: 106 liters additional 9 liter system fuel

9.2 Oil: Maximum: 3 liters
Minimum: 2 liters

9.3 Coolant: Anti Freeze Mixture acc AFM 2,8 liters

10. Air Speeds:

Design Manoeuvring Speed v_A:	176 km/h
Maximum rough air speed Vra:	210 km/h
Never exceed speed v_{NE}:	261 km/h
Air Brake in Middle Stop Vabf:	150 km/h

11. Maximum Operating Altitude: ---

12. Allweather Capability: Day-VFR see Note 4

13. Maximum Masses:

Take-off	770 kg
Maximum mass of non lifting parts	610 kg

14. Centre of Gravity Range:

Forward limit	318 mm behind Datum
Rear limit:	430 mm behind Datum

15. Datum: wing leading edge at Y = 0,6 m

16. (reserved)

17. Levelling Means:	wedge 1000 : 52 horizontal to fuselage tube
18. Minimum Flight Crew:	1 (Pilot)
19. Maximum Passenger Seating Capacity:	2
20. (Reserved)	
21. Baggage / Cargo Compartments	
Behind Seats	30 kg
22. Wheels and Tyres	see AMM

H.IV. Operating and Service Instructions

Airplane Flight Manual (AFM)	Airplane Flight Manual, HK 36 TTC-ECO, Doc. No. 3.01.25, ACG approved, issued 10. July 1998
Airplane Maintenance Manual (AMM) (incl. Airworthiness Limitations)	Airplane Maintenance Manual, HK 36 "SUPER DIMONA", Doc 3.02.21 or Doc. 3.02.04 (German Version) See Note 5
	Service Informations and Service Bulletins

H.V. Notes

1. Only industrial manufacturing is permitted.
2. All components exposed to direct sunlight, except for areas used for registration markings and warning marks, must basically have a white surface. Deviations, carried out in accordance with the Maintenance Manual, are permitted.
3. Certification is eligible for Serial Nos. 36.581 and subsequent, except 36.713, 36,717, 36.719, 36.725 and 36.729.
4. Acrobatics, cloud flying, night VFR and intentional spinning are not permitted
5. The HK 36 Series AMM doc. 3.02.21 and 3.02.04 replaces the former singular AMM doc 3.02.01 and 3.02.01E which will be no longer revised. Supplemental supplier manuals which are required for maintenance are listed in the HK Series AMM.
6. The engine Rotax 914 F must be modified in accordance with Rotax SB 914-01, ACG approved, with Propeller
7. Governor WOODWARD A210790, or Rotax SB 912-24, ACG approved, with Propeller Governor McCauley
8. DCFU290D17B/T2 and Rotax TM 914-06 exhaust muffler.
9. The installation and use of the type HK 36 TTC-ECO as a towing airplane, in accordance with the manufacturer's SB No. 40, latest revision, is permitted.
10. Use of different engine TCU-versions in accordance with the manufacturer`s SB No. 66, is permitted.

Change Record

Issue	Date	Changes
Issue 1	21.12.2005	Transfer from ACG TCDS SF 3/82 issue 15 to the EASA Type Design
Issue 2	06.July 2009	Corrections B.III.5 engine shall be L2400 Inclusion of EASA engine and Propeller TC Numbers, issue Nr for that changes remain unchanged
Issue 3	21 August 2015	C.III.7.1. Propeller designation corrected. MÄM 36-450, EASA Project No. 0010037087; C. III.3 to H.III.3: "1 cylinder head temperature or coolant temperature gauge (MÄM 36-450 installed)"
Issue 4	3.August 2016	MÄM 36-396, EASA 0010008901 B.IV; C.IV; D.IV; E.IV; F.IV; G.IV; H.IV. - AMM document number, applicable manuals included in the AMM B.V.; C.V; D.V; E.V; F.V; G.V; H.V - standard wording in all notes for color and marking limitations Sections renumbered to alphanumeric (A to H), separate section issue dates removed and replaced by TCDS Issue and change record.