ASW 28 VARIANT: ASW 28-18

European Aviation Safety Agency

TCDS A.017

EASA

TYPE-CERTIFICATE DATA SHEET

Schleicher ASW 28

Manufacturer: Alexander Schleicher GmbH & Co Segelflugzeugbau

Poppenhausen/Wasserkuppe Germany

Models:

ASW 28 ASW 28-18

Page	1	2	3	4	5	6	7
Issue	1	1	1	1	1	1	1

VARIANT: ASW 28-18 ISSUE 01, 6 December 2004

SECTION 1: ASW 28

I GENERAL

1. Sailplane: ASW 28

2. Airworthiness Category: Utility

3. Data Sheet No.: A.017

4. Type Certificate Holder: Alexander Schleicher GmbH & Co.

Poppenhausen/Wasserkuppe

Germany

5. Manufacturer: Alexander Schleicher GmbH & Co.

Poppenhausen/Wasserkuppe

Germany

LBA Type Certification Date:
 18 July 2001

7. This EASA TCDS replaces LBA Type Certification Data Sheet Nr. 423 issue 1 dated 18 July

2001

II. Certification Basis

1. Certification Basis: Defined by LBA letter M 531-423/00, dated

28 December 2000

2. Airworthiness Requirements: JAR-22, Change 5, issued 28-Oct-1995

3. Requirements elected to comply: Standards for Structural Substantiation of

Sailplane and Powered Sailplane Components Consisting of Glass or Carbon Fibre

Reinforced Plastics, issued July 1991

Additional Requirments for the Installation of a Water Ballast System in the Vertical Tail for the Purpose of Balancing a Nose Down Moment Caused by Water Ballast in the Wing,

issued August 1991

JAR NPA D-46 Seats and Safety Harnesses

JAR NPA D-64 Headrests

4. Special Conditions: None

5. Exemptions: None

6. Equivalent Safety Findings: 22.335(f) V_D – Determination

VARIANT: ASW 28-18 ISSUE 01, 6 December 2004

III. Technical Characteristics and Operational Limitations

Type Design Definition: List of the drawing files of the sailplane

ASW 28, 6 June 2001, LBA approved.

2. Description: Single-seat, shoulder-winged sailplane,

CRP/GRP/PRP-composite construction, T-shaped horizontal tailplane with fin and elevator, Schempp-Hirth brake-flaps on upper wing surface, water ballast tanks in the wing and optionally in the vertical fin, retractable landing gear equipped with brakes and spring

suspension, 15 m span with winglets.

3. Equipment: 1 Air speed indicator (up to 300 km/h)

1 Altimeter

1 4-Point harness (symmetrical)

Additional Equipment refer to Maintenance

Manual

4. Dimensions:

 Span
 15.0 m

 Length
 6.59 m

 Height
 1.3 m

 Wing Area
 10.5 m²

Launching Hooks:
 Sicherheitskupplung Europa G 73

LBA Datasheet No. 60.230/2

2. Sicherheitskupplung Europa G 72 LBA Datasheet No. 60.230/2

3. Sicherheitskupplung Europa G 88

LBA Datasheet No. 60.230/2

4. Bugkupplung E 72

LBA Datasheet No. 60.230/1

5. Bugkupplung E 75

LBA Datasheet No. 60.230/1

6. Bugkupplung E 85

LBA Datasheet No. 60.230/1

6. Weak links: Ultimate Strength:

- for winch launching - for aero-tow - for auto-tow

max. 660 daN max. 660 daN max. 660 daN

7. Air Speeds:

8. Operational Capability: VFR Day

Cloud flying and limited aerobatic manoeuvres according to the specifications in the Flight

Manual without water ballast.

VARIANT: ASW 28-18 ISSUE 01, 6 December 2004

9. Maximum Masses:

Max. Mass with Water Ballast: 525 kg Max. Mass of Non-Lifting Parts: 260 kg

10. Centre of Gravity Range: Datum: Wing leading edge at root rib

Upper side of fuselage boom placed at slope 1000:49

Forward limit: 222 mm aft of datum point Rearward limit: 345 mm aft of datum point

11. Minimum Flight Crew: 1 (Pilot)

12. Maximum Passenger Seating Capacity: ---

13. Lifetime limitations: Refer to Maintenance Manual14. Deflection angles of control surfaces: Refer to Maintenance Manual

IV. Operating and Service Instructions

1. Flight Manual ASW 28, issued 2 July 2001, LBA approved

- 2. Maintenance Manual ASW 28, issued 2 July 2001
- 3. Repair Manual Schleicher, issue February 1983
- 4. Tost Manual for the launching hook, latest approved version.

V. Notes

- 1. Manufacturing is confined to industrial production.
- 2. All parts exposed to sun radiation except the areas for markings and registration must have a white color surface.

VARIANT: ASW 28-18 ISSUE 01, 6 December 2004

Section 2: ASW 28-18

I. General

1. Sailplane: ASW 28-18

2. Airworthiness Category: Utility

3. Data Sheet No.: A.017

4. Type Certificate Holder: Alexander Schleicher GmbH & Co.

Poppenhausen/Wasserkuppe

Germany

5. Manufacturer: Alexander Schleicher GmbH & Co.

Poppenhausen/Wasserkuppe

Germany

6. LBA Certification Application Date: 16 November 2000

7. EASA Type Certification Date: 6 December 2004

II. Certification Basis

1. Certification Basis: Defined by LBA letter M 531-423/00, dated

28 December 2000

2. Airworthiness Requirements: JAR-22, Change 5, issued 28-Oct-1995

3. Requirements elected to comply: Standards for Structural Substantiation of

Sailplane and Powered Sailplane Components Consisting of Glass or Carbon Fibre

Reinforced Plastics, issued July 1991

Additional Requirements for the Installation of a Water Ballast System in the Vertical Tail for the Purpose of Balancing a Nose Down Moment Caused by Water Ballast in the Wing,

issued August 1991

JAR NPA D-46 Seats and Safety Harnesses

JAR NPA D-64, Headrests

4. Special Conditions: None

5. Exemptions: None

6. Equivalent Safety Findings: 22.335(f) V_D – Determination

VARIANT: ASW 28-18 ISSUE 01, 6 December 2004

III. Technical Characteristics and Operational Limitations

1. Type Design Definition: List of the drawing files ASW 28, issued 21.

September 2004, LBA approved

Optional with engine preparation: List of the drawing files ASW 28 (E), issued 18 October

2004, LBA approved

2. Description: Single-seat, shoulder-winged sailplane,

CRP/GRP/PRP-composite construction, T-shaped horizontal tailplane with fin and elevator, Schempp-Hirth brake-flaps on upper wing surface, water ballast tanks in the wing and optionally in the vertical fin, retractable landing gear equipped with brakes and spring suspension, optionally 15 m span with winglets, or 18 m span with winglets. Optional

preparation for engine installation.

3. Equipment: Min. Equipment:

1 Air speed indicator (up to 300 km/h)

1 Altimeter

1 4-Point harness (symmetrical)

Additional Equipment refer to Maintenance

Manual

4. Dimensions:

 Span
 15.0 m
 18.0 m

 Length
 6.59 m
 6.59 m

 Height
 1.3 m
 1.3 m

 Wing Area
 10.5 m²
 11.88 m²

5. Launching Hooks:

- Sicherheitskupplung Europa G 73 LBA Datasheet No. 60.230/2
- 2. Sicherheitskupplung Europa G 72 LBA Datasheet No. 60.230/2
- 3. Sicherheitskupplung Europa G 88 LBA Datasheet No. 60.230/2
- 4. Bugkupplung E 72
 - LBA Datasheet No. 60.230/1
- 5. Bugkupplung E 75

LBA Datasheet No. 60.230/1

6. Bugkupplung E 85

LBA Datasheet No. 60.230/1

6. Weak links: Ultimate Strength:

for winch launching
 for aero-tow
 for auto-tow
 max. 825 daN
 max. 825 daN
 max. 825 daN

7. Air Speeds:

VARIANT: ASW 28-18 ISSUE 01, 6 December 2004

8. Operational Capability: VFR Day

Cloud flying and limited aerobatic manoeuvres according to the specifications in the Flight

Manual with restricted maximum mass.

9. Maximum Masses:

Span 15 m Span 18 m Max. Mass with Water Ballast: 525 kg 575 kg Max. Mass of Non-Lifting Parts: 285 kg 285 kg Max. Mass for Aerobatic/Cloud Flying 409 kg 419 kg

10. Centre of Gravity Range: Datum: Wing leading edge at root rib

Upper side of fuselage boom placed at slope 1000:49

Forward Limit: 227 mm (15m) 233 mm (18m) aft of datum point Rearward Limit: 406 mm (15m) 406 mm (18m) aft of datum point

11. Minimum Flight Crew: 1 (Pilot)

12. Maximum Passenger Seating Capacity: ---

13. Lifetime limitations: Refer to Maintenance Manual14. Deflection angles of control surfaces: Refer to Maintenance Manual

IV. Operating and Service Instructions

1. Flight Manual for the sailplane ASW 28-18, issued 21 October 2004, LBA approved

2. Repair Manual Schleicher, issue February 1983

- 3. Maintenance Manual for the sailplane ASW 28-18, issued 21 October 2004
- 4. Tost Manual for the launching hook "Europa G 88", latest approved version.

V. Notes

- 1. Manufacturing is confined to industrial production.
- 2. All parts exposed to sun radiation except the areas for markings and registration must have a white color surface.