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Change Record

Section A: PW-6U

A.I. General

Allgemeines

- | | |
|---|--|
| 1. Data Sheet No.: EASA.A.088
Kennblatt-Nr. | Issue: 01 Date: 27 June 2006
Ausgabe: Datum |
| 2. a) Type: (Muster)
b) Variant: (Baureihe) | PW-6
PW-6U |
| 3. Airworthiness Category:
Lufttüchtigkeitskategorie : | Sailplane, JAR 22 - Utility |
| 4. Type Certificate Holder:
Halter der Musterzulassung | Zakład Szybowcowy „Jeżów”
Henryk Mynarski
ul. Długa 93
58-521 Jeżów Sudecki
POLAND |
| 5. Manufacturer:
Hersteller | for serial numbers from 78.00.00 to 78.03.10:
Wytwórnia Sprzętu Komunikacyjnego
„PZL - Świdnik” S.A.
Al. Lotników Polskich 1
21-045 Świdnik
POLAND

for serial numbers from 78.04.01:
Zakład Szybowcowy „Jeżów”
Henryk Mynarski
ul. Długa 93
58-521 Jeżów Sudecki
POLAND |
| 6. Polish CAA Certification Date
Datum der Musterzulassung | 11 September 2000 (TC No. BG-213) |
| 7. This TCDS replaces Polish Type Certificate No. BG-213. | |

A.II. Certification Basis

Zulassungsbasis

- | | |
|--|---|
| 1. Certification Basis:
Zulassungsbasis: | Defined 11 September 2000 |
| 2. Airworthiness Requirements:
Lufttüchtigkeitsforderungen: | JAR-22, Change 5, issued October, 1995 |
| 3. Requirements elected to comply:
Gewählte Forderungen: | Directives for part strength certification of sailplanes and powered sailplanes from glass and carbon composites, issued by LBA, July 1991. |
| 4. Special Conditions:
Sonderforderungen: | None |
| 5. Exemptions:
Ausnahmen: | None |
| 6. Equivalent Safety Findings:
Nachweise gleichwertiger Sicherheit: | None |

A.III. Technical Characteristics and Operational Limitations

Technische Merkmale und Betriebsgrenzen

- | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|--|--|-------------------|---------|---------------------------------|----------------------|--------------|------------|--------------------------|--------|--------|----------------|----------|----------|---------------|-------|----------|-------------------|-------|----------|
| 1. | Type Design Definition:
Musterdefinition: | Drawing No. 78.00.000.00.00 & 78.00.000.00.01
for PW-6U without automatic elevator connection.

Drawing No. 78.00.000.00.02
for PW-6U with automatic elevator connection. | | | | | | | | | | | | | | | | | | |
| 2. | Description:
Beschreibung: | Two-seat (tandem configuration) utility glider. Cantilever mid-wing monoplane with standard tail unit (fixed stabilizer with elevator, fin and rudder). All composite glass-epoxy structure. Bipartite tapered wing with plate airbrakes protruding from upper surface. Fixed landing gear with nose wheel and auxiliary tail wheel. Main wheel with drum brake and shock absorber. | | | | | | | | | | | | | | | | | | |
| 3. | Equipment:
Ausrüstung: | <p>Minimum equipment:</p> <ul style="list-style-type: none"> - two airspeed indicators (range 0÷400 km/h) - two altimeters (range 0÷10000 m) - compass - variometer - pilots safety belts - transceiver - feeder <p>Optional equipment:</p> <ul style="list-style-type: none"> - bunk-and-turn indicator - electrical variometer - deck computer - GPS indicator | | | | | | | | | | | | | | | | | | |
| 4. | Dimensions:
Abmessungen: | <table border="0" style="width: 100%;"> <tr> <td style="width: 60%;">Span</td> <td style="text-align: right;">16,00 m</td> </tr> <tr> <td>Wing area</td> <td style="text-align: right;">15,25 m²</td> </tr> <tr> <td>Aspect Ratio</td> <td style="text-align: right;">16,80</td> </tr> <tr> <td>Length</td> <td style="text-align: right;">7,85 m</td> </tr> <tr> <td>Height</td> <td style="text-align: right;">2,40 m</td> </tr> </table> | Span | 16,00 m | Wing area | 15,25 m ² | Aspect Ratio | 16,80 | Length | 7,85 m | Height | 2,40 m | | | | | | | | |
| Span | 16,00 m | | | | | | | | | | | | | | | | | | | |
| Wing area | 15,25 m ² | | | | | | | | | | | | | | | | | | | |
| Aspect Ratio | 16,80 | | | | | | | | | | | | | | | | | | | |
| Length | 7,85 m | | | | | | | | | | | | | | | | | | | |
| Height | 2,40 m | | | | | | | | | | | | | | | | | | | |
| 5. | Launching Hooks:
Schleppkupplungen: | Safety hook „Europa G 88“, LBA Datasheet No. 60.230/2
Nose tow hook „E 85“, LBA Datasheet No. 60.230/1 | | | | | | | | | | | | | | | | | | |
| 6. | Weak links:
Sollbruchstellen: | Ultimate Strength: max. 1100 daN | | | | | | | | | | | | | | | | | | |
| 7. | Air Speeds:
Geschwindigkeiten: | <table border="0" style="width: 100%;"> <tr> <td style="width: 40%;">Manoeuvring Speed</td> <td style="width: 15%;">V_A</td> <td style="text-align: right;">165 km/h</td> </tr> <tr> <td>Never Exceed Speed</td> <td>V_{NE}</td> <td style="text-align: right;">261 km/h</td> </tr> <tr> <td colspan="3">Maximum permitted speeds</td> </tr> <tr> <td>- in rough air</td> <td>V_{RA}</td> <td style="text-align: right;">165 km/h</td> </tr> <tr> <td>- in aero-tow</td> <td>V_T</td> <td style="text-align: right;">165 km/h</td> </tr> <tr> <td>- in winch-launch</td> <td>V_W</td> <td style="text-align: right;">120 km/h</td> </tr> </table> | Manoeuvring Speed | V_A | 165 km/h | Never Exceed Speed | V_{NE} | 261 km/h | Maximum permitted speeds | | | - in rough air | V_{RA} | 165 km/h | - in aero-tow | V_T | 165 km/h | - in winch-launch | V_W | 120 km/h |
| Manoeuvring Speed | V_A | 165 km/h | | | | | | | | | | | | | | | | | | |
| Never Exceed Speed | V_{NE} | 261 km/h | | | | | | | | | | | | | | | | | | |
| Maximum permitted speeds | | | | | | | | | | | | | | | | | | | | |
| - in rough air | V_{RA} | 165 km/h | | | | | | | | | | | | | | | | | | |
| - in aero-tow | V_T | 165 km/h | | | | | | | | | | | | | | | | | | |
| - in winch-launch | V_W | 120 km/h | | | | | | | | | | | | | | | | | | |
| 8. | Operational Capability | VFR Day
Cloud flying | | | | | | | | | | | | | | | | | | |
| 9. | Masses:
Massen: | <table border="0" style="width: 100%;"> <tr> <td style="width: 60%;">Max. Mass</td> <td style="text-align: right;">546 kg</td> </tr> <tr> <td>(for s/n 78.00.00 and 78.01.01)</td> <td style="text-align: right;">550 kg</td> </tr> <tr> <td>Empty Mass</td> <td style="text-align: right;">340-360 kg</td> </tr> </table> | Max. Mass | 546 kg | (for s/n 78.00.00 and 78.01.01) | 550 kg | Empty Mass | 340-360 kg | | | | | | | | | | | | |
| Max. Mass | 546 kg | | | | | | | | | | | | | | | | | | | |
| (for s/n 78.00.00 and 78.01.01) | 550 kg | | | | | | | | | | | | | | | | | | | |
| Empty Mass | 340-360 kg | | | | | | | | | | | | | | | | | | | |

10. Centre of Gravity Range:
Schwerpunktsbereich: For empty glider with standard equipment the permissible CG range depends on Empty Mass and it is illustrated in Maintenance Manual (fig. 7-2).
Centre of Gravity operational limits:
Forward Limit 199 mm aft of datum point (17,0% MAC)
Rearward Limit 432 mm aft of datum point (42,0% MAC)
MAC is 1014 mm; 0% MAC is 6 mm behind the datum.
Datum: Leading edge and wing-fuselage division plane intersection.
Leveling means: Leading and trailing points of root chord (1300 mm) at the same level.
11. Seating Capacity: 2
Anzahl der Sitze:
12. Lifetime limitations:
Lebensdauerbegrenzte Teile: Refer to Maintenance Manual
13. Other limitations:
Andere Beschränkungen: Flights in icing conditions are forbidden.
Aerobatic in rough air is forbidden.
Solo flight is permissible only on front seat.
No winch-launching using nose hook.
No aero-towing using lower hook.
Manoeuvring load factor limits: +5,3/-2,65 at V_A
+4,0/-1,5 at V_{NE}
14. Deflection of control surfaces:
Ruderausschläge
- | | | | |
|-----------|---------|-----|------|
| Aileron | - up | 26° | ± 2° |
| | - down | 13° | ± 1° |
| Elevator: | - up | 28° | ± 2° |
| | - down | 19° | ± 1° |
| Rudder: | - left | 33° | ± 2° |
| | - right | 33° | ± 2° |

A.IV. Operating and Service Instructions

Betriebs- und Instandhaltungsanweisungen

1. Flight Manuals:

document number	date of issue	language	system of units	the only country of use
PW-6U/IUL/I/2000	2000.07.14	Polish	metric	
PW-6U/IUL/I/2000 Pa	2000.07.14	Polish	imperial	
PW-6U/IUL/I/2000 Am	2000.07.14	English	metric	
PW-6U/IUL/I/2000 Aa	2000.07.14	English	imperial	
PW-6U/IUL/I/00/Fm	2000.07.14	French	metric	France
PW-6U/IUL/I/2000 Nm	2000.07.14	German	metric	Germany
PW-6U/IUL/I/03 PmM	2003.06.18	Polish	metric	Poland
PW-6U/IUL/I/03 PaM	2003.06.18	Polish	imperial	
PW-6U/IUL/I/03 AmM	2003.06.18	English	metric	
PW-6U/IUL/I/03 AaM	2003.06.18	English	imperial	
PW-6U/IUL/I/03 US M	2003.11.18	English	imperial	USA

Manuals with letter **M** (and also **Nm**) refer to gliders with automatic elevator connection

2. Supplements for Flight Manual:

None

3. Maintenance Manuals:

document number	date of issue	language	system of units	the only country of use
PW-6U/IOT//2000	2000.08.16	Polish	metric	
PW-6U/IOT//2000 Pa	2000.08.16	Polish	imperial	
PW-6U/IOT//2000 Am	2000.08.16	English	metric	
PW-6U/IOT//2000 Aa	2000.08.16	English	imperial	
PW-6U/IOT//2000 Nm	2000.08.16	German	metric	Germany
PW-6U/IOT//03 PmM	2003.06.18	Polish	metric	Poland
PW-6U/IOT//03 PaM	2003.06.18	Polish	imperial	
PW-6U/IOT//03 AmM	2003.06.18	English	metric	
PW-6U/IOT//03 AaM	2003.06.18	English	imperial	
PW-6U/IOT//03 US M	2003.11.18	English	imperial	USA

Manuals with letter **M** (and also **Nm**) refer to gliders with automatic elevator connection

A.V. Notes

Bemerkungen

1. Serial Numbers:

78.00.00,
from 78.01.01 to 78.01.07,
from 78.02.01 to 78.02.09,
from 78.03.01 to 78.03.10,
from 78.04.01

2. All glider outside surfaces must be white painted apart from registration number. Any colour marks must not be applied on the upper surface of wings, fuselage and horizontal tail unit.
3. Any additional painting on control surfaces is forbidden. Mass balance of control surfaces must comply with requirements of Maintenance Manual.

Change Record

Issue	Date	Changes
Issue 01	27 June 2006	Transfer from Polish Type Certificate No. BG-213. to the EASA Type Design