TYPE-CERTIFICATE
DATA SHEET

NO. EASA.A.544

for
RS 180

Type Certificate Holder
Sportavia-Pützer TC-Services GmbH

3Am Wichelshof 44
53129 Bonn
Germany

For models: RS 180
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SECTION A: RS 180

A.I. General

1. Type RS 180
2. Airworthiness Category Normal / Utility
3. Manufacturer Sportavia Pützer GmbH & Co KG
4. State of Design Authority Germany
5. State of Design Authority Type Certificate Date 20 June 1978

A.II. EASA Certification Basis

1. Airworthiness Requirements FAR 23 Amdt. 23-1 through 23-12
2. Special Conditions n/a
3. Exemptions n/a
4. Deviations n/a
5. Equivalent Safety Findings n/a
6. Environmental Protection NFL II-47/75

A.III. Technical Characteristics and Operational Limitations

1. Description Single engine, wooden cantilever low-wing
2. Equipment
3. Dimensions
4. Engine
5. Propeller
6. Fluids
7. Fluid capacities
8. Air Speeds
9. Flight Speeds
10. Approved Operations Capability VFR day only
11. Maximum Masses
12. Maximum Take-off Mass 1100 kg (Normal category)
13. Maximum Take-off Mass 950 kg (Utility category)
14. Centre of Gravity Range
15. Datum
16. Levelling Means Fuselage upper chord level
17. Maximum Passenger Seating Capacity 3
18. Baggage/ Cargo Compartments 45 kg (Normal category only)

A.V. Notes

SECTION ADMINISTRATIVE

I. Acronyms & Abbreviations
II. Type Certificate Holder Record
III. Change Record

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### SECTION A: RS 180

#### A.I. General

1. Type                      RS 180  
2. Airworthiness Category     Normal / Utility  
3. Manufacturer               Sportavia Pützer GmbH & Co KG  
                                Flugplatz Dahlemmer Binz  
                                5377 Post Schmidtheim  
4. State of Design Authority  Germany  
5. State of Design Authority Type Certificate Date  20 June 1978  
6. This EASA TCDS cancels and replaces the German TCDS No 1014

#### A.II. EASA Certification Basis

1. Airworthiness Requirements  FAR 23 Amdt. 23-1 through 23-12  
2. Special Conditions          n/a  
3. Exemptions                  n/a  
4. Deviations                  n/a  
5. Equivalent Safety Findings  n/a  
6. Environmental Protection    NfL II-47/75
A.III. Technical Characteristics and Operational Limitations

1. Description
   Single engine, wooden cantilever low-wing aircraft, fixed tricycle gear

2. Equipment

3. Dimensions

4. Engine
   4.1. Model
   Lycoming O-360 – A3A or O-360 – A1A
   4.2 Type Certificate
   EASA.IM.E.032
   4.3 Take-off power
   134,2 kW (182,5 HP) at 2700 r.p.m.
   for max 10 min
   4.4 Max. Continuous Power
   126,7 kW (172 HP) at 2500 r.p.m.

5. Propeller
   5.1 Model
   Hoffmann HO-27 HM-180-138
   5.2 Type Certificate
   German TCDS 32.110/1
   5.3 Number of blades
   2
   5.4 Diameter
   1800 mm
   5.5 Sense of Rotation
   R

6. Fluids
   6.1 Fuel
   AVGAS 100 LL

7. Fluid capacities
   7.1 Fuel
   210 l (206 l usable)
   7.2 Oil
   7,6 l

8. Air Speeds
   8.1 Never exceed speed
   \( V_{NE} \) 320 km/h 200 mph
   8.2 Max. cruise speed
   \( V_{NO} \) 253 km/h 158 mph
   8.3 Maximum manoeuvring speeds
   \( V_A \) 195 km/h 122 mph
   8.4 Max. speed flaps down
   \( V_{FE} \) 192 km/h 120 mph

9. Flight Envelope

10. Approved Operations Capability
    VFR day only

11. Maximum Masses
    Maximum Take-off Mass
    1100 kg (Normal category)
    Maximum Take-off Mass
    950 kg (Utility category)

12. Centre of Gravity Range
    Forward limit: 2328 mm behind datum
    Rear limit: 2611 mm behind datum (Normal category)
    Rear limit: 2442 mm behind datum (Utility category)

13. Datum
14. Levelling Means
Fuselage upper chord level
Rumpfobergurt waagerecht

15. Control surface deflections

<table>
<thead>
<tr>
<th>Surface</th>
<th>Upward Deflection</th>
<th>Downward Deflection</th>
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<tbody>
<tr>
<td>Aileron</td>
<td>20° +0°, -2°</td>
<td>10° +0°, -2°</td>
</tr>
<tr>
<td>Rudder</td>
<td>25° ± 1° left and right</td>
<td>20° ± 1°</td>
</tr>
<tr>
<td>Elevator</td>
<td>20° ± 1° upwards</td>
<td>30° ± 1° downwards</td>
</tr>
<tr>
<td>Trimming tab</td>
<td>20° ± 1° upwards</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(at elevator neutral)</td>
</tr>
<tr>
<td>Flaps</td>
<td>50° +0°, -2°</td>
<td></td>
</tr>
</tbody>
</table>

16. Minimum Flight Crew
1

17. Maximum Passenger Seating Capacity
3

18. Baggage/ Cargo Compartments
45 kg (Normal category only)
A.IV. **Operating and Service Instructions**

1. **Flight Manual:**
   - Flughandbuch RS180, LBA anerkannt
   - 09.06.78

2. **Maintenance Manual**
   - Wartungshandbuch RS180

   - Lycoming O-360 Operator’s Manual
   - Lycoming O-360 Overhaul Manual

   - Hoffmann Propeller Betriebs- und Wartungshandbuch

5. **Illustrated Parts Catalogue**
   - Ersatzteilkatalog RS180
A.V. **Notes**

SECTION ADMINISTRATIVE

I. Acronyms & Abbreviations

G Load factor
Kg Kilograms
MAC Mean aerodynamic chord
RPM Revolutions per minute
VFR Visual flight rules
LBA Luftfahrt-Bundesamt
TM Technical Note (Service Bulletin)

II. Type Certificate Holder Record

Sportavia Pützer GmbH & Co KG
Flugplatz Dahlemer Binz
5377 Dahlem-Schmidtheim

Rhein Flugzeugbau
Flugplatz
4050 Mönchengladbach

E.I.S. Aircraft
Kolumbusstraße 31
53881 Euskirchen

Sportavia-Pützer TC-Services GmbH
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III. Change Record

<table>
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<th>Issue</th>
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<th>Changes</th>
<th>TC Issue No. &amp; Date</th>
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<td>Issue 01</td>
<td>21 Dec 2020</td>
<td>Initial Issue</td>
<td>Initial Issue, 15 Dec 2020</td>
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