



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 Flugplatz Dahlemer 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			



		2,00 m ahead of wing leading edge at fuselage side 2,00 m vor Flügelvorderkante an der Rumpfseitenwand Fuselage upper chord level Rumpfobergurt waagerecht
14. Levelling Means		
15. Control surface deflections		
	Aileron	20° +0°, -2° upwards 10° +0°, -2° downwards
	Rudder	25° ± 1° left and right
	Elevator	20° ± 1° upwards 20° ± 1° downwards
	Trimming tab	20° ± 1° upwards 30° ± 1° downwards (at elevator neutral)
	Flaps	50° +0°, -2° downwards
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. 1. Flight Manual:
Flughandbuch RS180, LBA anerkannt
09.06.78
2. Maintenance Manual
Wartungshandbuch RS180
3. Operating Manual and Maintenance Manual for Engine
Lycoming O-360 Operator's Manual
Lycoming O-360 Overhaul Manual
4. Operating Manual and Maintenance Manual for Propeller
Hoffmann Propeller Betriebs- und
Wartungshandbuch
5. Illustrated Parts Catalogue
Ersatzteilkatalog RS180



A.V. Notes

1. Aerotow and banner-towing in accordance with flight manual Annex A and Annex B, LBA approved.



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

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Kolumbusstraße 31
53881 Euskirchen

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III. Change Record

Issue	Date	Changes	TC Issue No. & Date
Issue 01	21 Dec 2020	Initial Issue	Initial Issue, 15 Dec 2020

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