

2.4 Power-Plant

Engine: IAE 50R-AA

Maximum power,	
take-off:	37.3 kW (3 minute limit) 7750 rpm
continuous:	35.8 kW 7100 rpm
Maximum take-off revs:	7750 rpm
Maximum continuous revs:	7100 rpm
Maximum over speed revs:	(20 sec.) 8000 rpm
Minimum idling speed rev:	2800 rpm

Maximum coolant temperature, take-off:	90°C	194°F
Minimum coolant temperature, take-off:	40°C	104°F
Maximum coolant temperature:	100°C	212°F

Maximum rotor cooling air temperature, take-off (3 min):	130°C	266°F
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NOTE: *The above stated take-off performance refers to the minimum value as given in the engine data sheet. A nominal performance of 41 kW is typical on the other hand.*

Lubricant: Total loss oil lubrication
at ratio 1:60 approximately

Transmission: Toothed belt transmission with 1:2.68 reduction ratio.

The following types of propeller are approved:

Manufacturer: Alexander Schleicher GmbH
Propeller: AS2F1-5/R153-88-N1

5.3 Additional Information

5.3.1 Demonstrated Cross Wind Components

Self Launch	25 km/h (15.5 kts)
Winch Launch & Autotow	20 km/h (13.5 kts)
Aerotow	20 km/h (13.5 kts)
Landing	25 km/h (15.5 kts)

5.3.2 Noise Data

The noise emission measurements were carried out in accordance with CS-36 (Aircraft Noise) with reference to ICAO Annex 16, Volume 1.

The determined noise levels are:

Take-off mass	Noise level Chapter 10	Limit value: Chapter 10.4b)
850 kg (1874 lb)	76,2 dB (A)	76,2 dB (A)

Airbrakes (Schempp-Hirth, only upper surface)

Length	1.60 m	(5.25 ft)
Surface area (both sides)	0.473 m ²	(5.09 ft ²)
Max. height	0.16 m	(0.52 ft)

Power-Plant

Engine: IAE 50R-AA

Max. power, take-off: 37.3 kW (for 3 minutes) 7750 1/min

Max. power, continuous: 35.8 kW 7100 1/min

Max. take-off rev: 7750 1/min

Max. continuous revs: 7100 1/min

Max. over speed revs (20 sec.): 8000 1/min

Min. idling speed: 2800 1/min

Max. coolant temperature, take-off: 90 °C 194°F

Min. coolant temperature, take-off: 40 °C 104°F

Max coolant temperature, continuous: 100 °C 212°F

Max. rotor cooling air temp., take-off (3 minutes): 130 °C 266°F

NOTE: *The above specification of the take-off power relates to minimum value shown in the engine specification. A value of 41 kW is typical.*

Lubrication: Total loss lubrication
Consumption ratio: approx.: 1:60

Approved oil and fuel grades: see Flight Manual section 2.12

Transmission: Toothed belt with gearing ratio: 1:2.68

The installation of the following propeller is type-approved:

Manufacturer: Alexander Schleicher GmbH

Propeller: AS2F1-5/R153-88-N1