



ROTAX.

OPERATORS MANUAL

FOR ROTAX ENGINE TYPE 912 SERIES

REF NO.: OM-912 | PART NO.: 899700



5) Performance and Fuel consumption

Topics in this chapter

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- I Introduction The performance tables and performance graphs on the next few pages are intended to show you what kind of performance to expect from your engine in terms of power output. The indicated power can be achieved by following the procedures laid out in the Operators Manual (OM) and ensuring that the engine is well-maintained.

**Performance data
Engine 912 A/F/UL**

Performance data for variable pitch propeller

Engine speed over 5500 rpm is restricted to 5 minutes.
Run the engine in accordance with the following table.

Power setting	Engine speed (rpm)	Performance (kW)/(HP)	Torque (Nm)/(ft. lb)	Manifold pressure (in. Hg)
Take-off power	5800	59.6 / 80	98.1 / 72.35	full throttle
max. continuous power	5500	58.0 / 78	100.7 / 74.27	full throttle
75 %	5000	43.5 / 58	83.1 / 61.29	27.2
65 %	4800	37.7 / 50	75.0 / 55.32	26.5
55 %	4300	31.9 / 43	70.8 / 52.22	26.3

NOTE

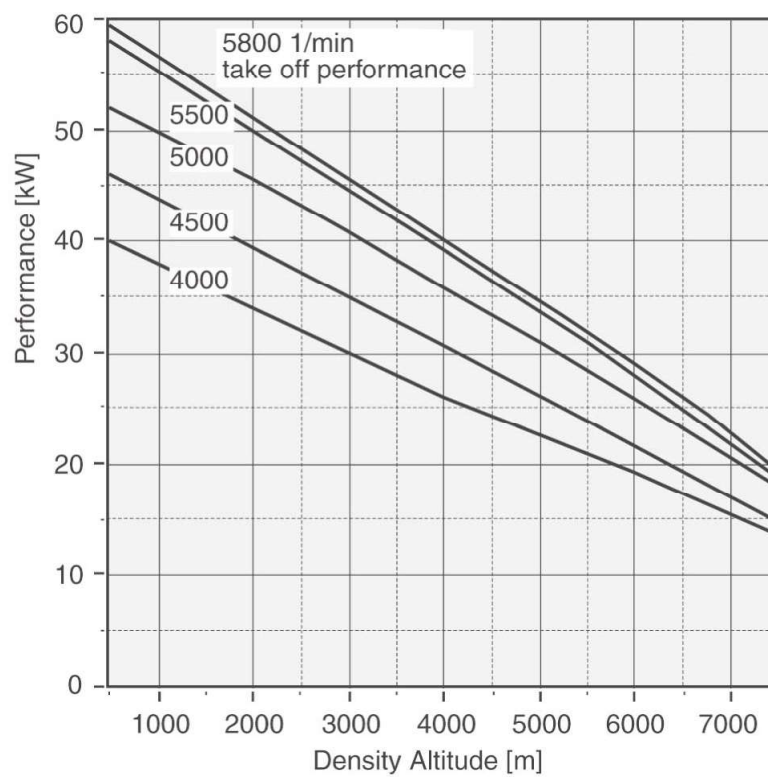
Further essential information regarding engine behavior see Service Letter SL-912-016, latest edition.

**Performance data
Engine 912 A/F/UL**

Performance data variable pitch propeller

The following graph shows the performance drop with increasing flight altitude. The curves show the performance at 5800, 5500, 5000, 4500 and 4000 rpm, at full throttle.

At deviation of temperature conditions from standard atmosphere conditions the engine performance to be expected can be calculated from the performance indicated, multiplied by standard temperature, divided by actual temperature in K.



$$P_{\text{act.}} = P_{\text{stand.}} \frac{T_{\text{standard}}}{T_{\text{actually}}}$$

$$T \text{ [K]} = t \text{ [}^{\circ}\text{C]} + 273$$

Figure 3: Performance graphs 912 A/F/UL