

1.3 hp / 1.0 kW Heavy Fuel Engine



Objective	Custom Engine for VTO MAVs	
Type	Piston, 4-stroke cycle	
Fuel Usable	JP-8 + 3% Oil, No Volatile Additives	
Displacement	0.54 cu. in.	8.8 cc
Power Goal	1.3 hp	1000 Watts
Power Demonstrated	1.5+ hp	1120+ Watts
SFC Goal	0.99 lbs/bhp-hr	0.60 kg/kW-hr
SFC Achieved	0.60 lbs/bhp-hr 0.36 kg/kW-hr	
Comments	Beat Project Goals, Delivered 10 Engines to DARPA Started, Ran at -20 F (-4 C) and at +140 F (+60 C).	