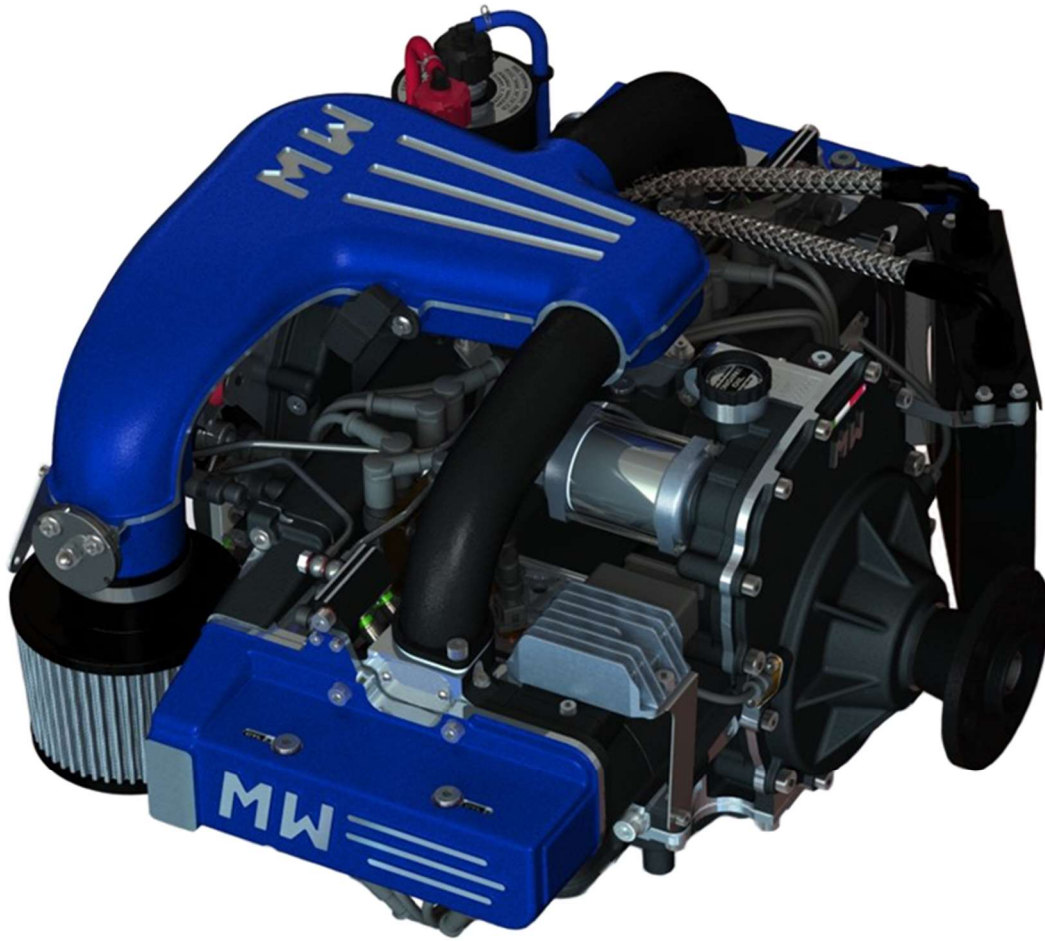


SPIRIT 135 DIRECT DRIVE



Applicability



Engine data

Type	4 cylinder boxer
Displacement [cm ³ (in ³)]	2201 (134)
Weight [Kg (lbs)]	74 (163) dry (without accessories)
Dimension L x W x H [mm (in)]	593 x 762 x 419 (23.35 x 30 x 16.5)
Stroke X Bore [mm (in)]	81 x 93 (3.18 x 3.66)
Compression Rate	10.3 ÷ 1
Thermodynamic Cycle	4 Stroke fuel (Otto cycle)
Fuel	Mo.GAS min. AKI 90, R.O.N. 95, M.O.N. 85, LL100
Cooling System	Liquid with mechanical pump
Lubrication	Semi-dry sump, pressure oil feed assisted with internal pump
Timing System	2 valves per cylinder with S.O.H.C. (Single Over Head Camshaft)
Timing Driving System	Gear + chain with automatic chain tensioner

Transmission



Electric

Generator	Permanent magnet, oil cooled, 300W (12.5V-24A)
Starter	Electric starter 0.65kW with anti-kickback clutch
F.R.I.S. (Full Redundancy Injector System)	ECU with dual injection and ignition; altitude and temperature compensation; Limp Home strategy
CAN Data Transmission	CAN Aerospace protocol

Performance

Max Power [Hp (kW)]	135.3 (100.9) @ 4550rpm
Max Torque [Nm (Ft-lb)]	218 (160.8) @ 4150rpm
Max Continuous Power [Hp (kW)]	120 (89.5) @ 4300rpm
Max Engine Speed [rpm]	4700
Power/Weight [Hp/Kg (Hp/lbs)]	1.83 (0.83)
Fuel Cons. [L/h (USgal/h)]	34.2 (9.03) @ 120Hp
TBO [h]	1500