



DATA SHEET SPIRIT 160Hp PSRU

Document
E-DTD.W025.001

Edition
A

Revision
1

SPIRIT 160 GEARED PSRU

SPIRIT160
RED LINE
MWFLY GEARED PSRU



Applicability



TRANSLATED

FREE DISCLOSURE

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Engine data

Model/Code	Spirit 160 PSRU / W025 right rotation – W026 left rotation
Type	4 cylinder boxer - 4 Stroke fuel (Otto cycle)
Displacement [cm3 (in3)]	2545 (155)
Weight [Kg (lb)]	86.5 (190.7) dry (without accessories)
Dimension L x W x H [mm (in)]	673 x 762 x 419 (26.46 x 30 x 16.5)
Stroke X Bore [mm (in)]	81 x 100 (3.18 x 3.93)
Compression Rate	10.1 ÷ 1
Thermodynamic 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
Pre-installed Accessories	Engine wiring loom, voltage regulator, start relay, dampers, ignition coils

Transmission

 	
Type	Gearbox with helical gear (separate lubrication)
Transmission ratio	1 ÷ 1.958
Max Propeller Speed [rpm]	2425
Damper	Elasto-dissipative with Active Damping Control (A.D.C)
Optional	Integrated constant speed hydraulic governor

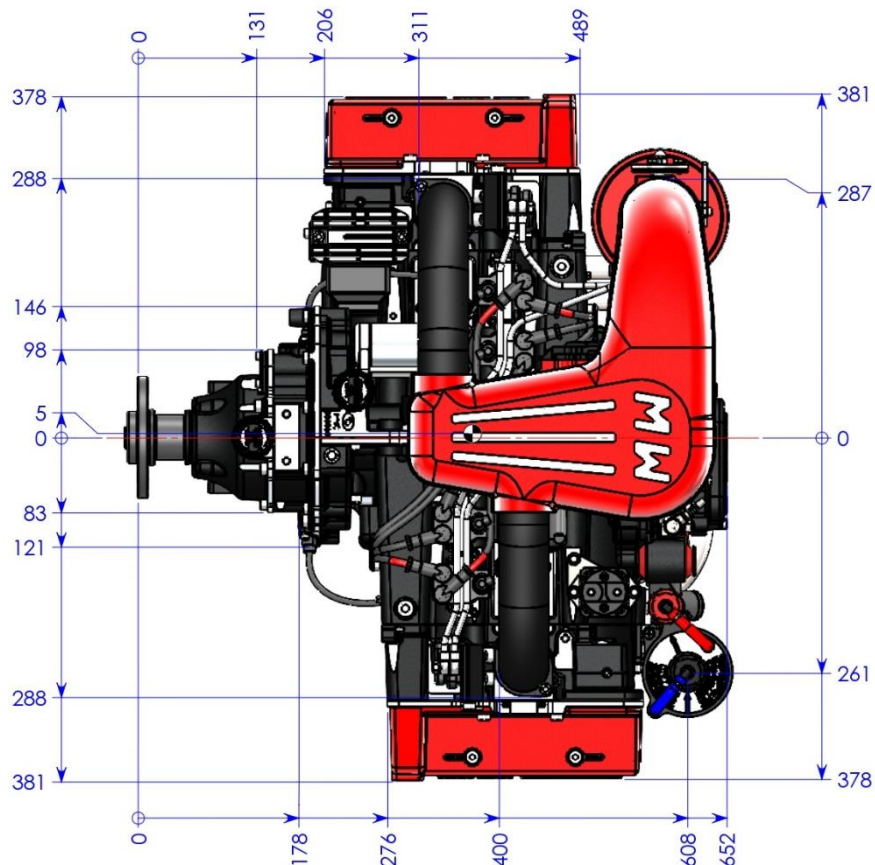
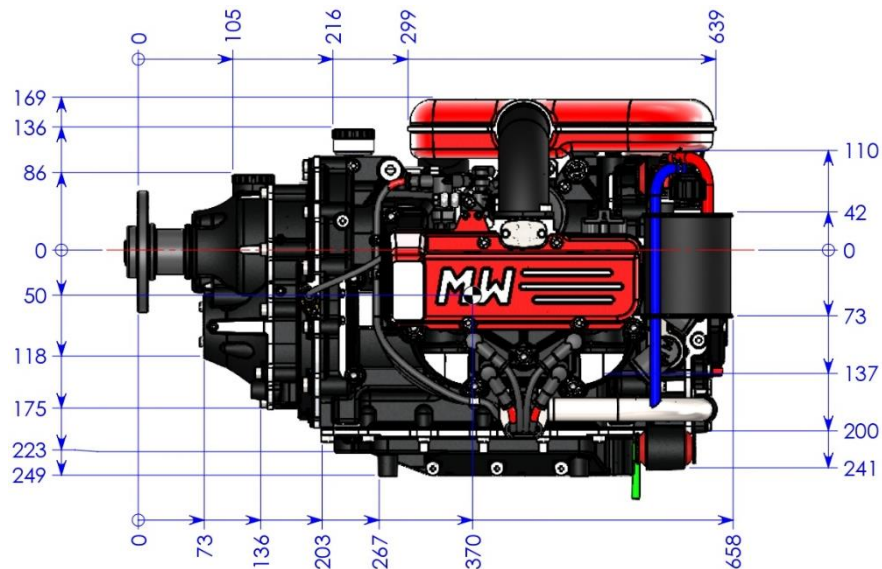
Electric data

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 [kW (Hp)]	117.7 (160) @ 4700 rpm
Max Torque [Nm (lb-ft)]	267 (196.9) @ 3000 rpm
Max Continuous Power [kW (Hp)]	100.8 (137)
Max Engine Speed [rpm]	4750
Power/Weight [Hp/Kg (Hp/lb)]	1.85 (0.84)
Fuel Cons. [Kg/h (lb/h)]	12.7 (28) @ 75Hp
TBO [h]	1800

DIMENSIONS



ATTACHMENT POINTS

