

Non-Certified



16 models with clockwise or counterclockwise rotation in tractor and pushing configurations, delivering from 100 to 160 horsepower

Uses:







Non-Certified

Brief Presentation

MWfly SPIRIT SKY LINE and RED LINE non-certified aeronautic engines total 16 high performance models delivering from 100 to 160 horsepower and are offered with direct or geared drive transmissions (depending on the model), clockwise or anticlockwise rotation and tractor and pushing configurations.

They are 4-cylinder horizontally opposed (boxer type) liquid cooled motors manufactured to the highest standards to meet application requirements in a wide range of LSA and experimental single-engine or twin-engine airplanes and other aircraft (STOL, helicopters, gyrocopters, hang gliders, seaplanes and drones).

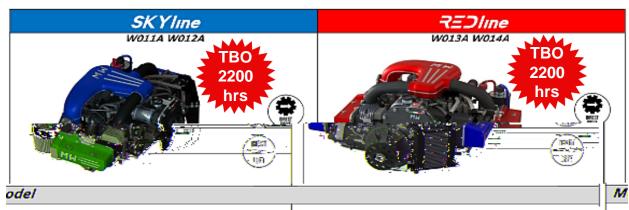
SPIRIT SKY LINE different engine models deliver 100, 122, 135 & 140 HP while those in SPIRIT RED LINE series deliver 115, 135 & 160 HP.

SPIRIT engines come with many accessories as standard. Additional engine accessories can be purchased separately or included in the order of any SPIRIT engine. For additional information please contact us for customized solutions to your projects.

This presentation includes an overview of characteristics and specifications as well as an indicative list of other non-certified engines for which MWfly engines can serve as cot-effective replacement options. For any additional information please visit our Web Platform for Supplies or contact us at sales@aviationeu.supplies.



Non-Certified



SPIRIT 100 DIRECT DRIVE

SPIRIT 115 DIRECT DRIVE

oplicability





cessories included

Full redundancy ECU's
Full installed engine wiring loom
Internal generator
Voltage regulator
Start relay
Installed inductive coil
Installed cooling circuit expansion tank
Installed cooling circuit thermostat
Engine mount dampers (8)
Fuse & relay (electrical hub)

Full redundancy ECU's

- Full installed engine wiring loom

Internal generator

Voltage regulator

Start relay

Installed inductive coil

Installed cooling circuit expansion tank

Installed cooling circuit thermostat

- Engine mount dampers (8)

Fuse & relay (electrical hub)

Capacitor

Additional accessories available

- Standard coolant radiator kit
- Front coolant radiators for STOL (2)
- Oil radiator kit

Capacitor

- Fuel pumps & filters module (2+2)
- Standard exhaust system
- EMS & sensor kit
- CAN aerospace interface
- Bed mounting adaptors (4)
- Engine-cockpit wiring loom

- Standard coolant radiator kit
- Front coolant radiators for STOL (2)
- Oil radiator kit
- Fuel pumps & filters module (2+2)
- Standard exhaust system
- EMS & sensor kit
- CAN aerospace interface
- Bed mounting adaptors (4)
- Engine-cockpit wiring loom

Engine Type: 4-cylinder boxer - Direct Drive

Power: 100 Hp - Weight: 74 kg

Power/Weight Ratio [Hp/Kg (Hp/lbs.)]: 1.35 (0.61)
Max Power [Hp (kW)]: 100.3 (74.8) @ 3400rpm
Max Torque [Nm (Ft-lbs.)]: 205.6 (151.6) @ 3400 rpm

Dimensions L x W x H [mm (in)]: 593x762x419

(23.35x30x16.5)

Fuel - Fuel Consumption: Mogas min. AKI 90, R.O.N.

95, M.O.N. 85, LL100 - 18.1 L/h

Cooling System: Liquid cooled with a mechanical

pump

Offered with clockwise or anticlockwise rotation

Engine Type: 4-cylinder boxer - Direct Drive

Power: 115 Hp - Weight: 74 kg

Power/Weight Ratio [Hp/Kg (Hp/lbs.)]: 1.55 (0.71)

Max Power [Hp (kW)]: 115 (85.7) @ 3350rpm Max Torque [Nm (Ft-lbs.)]: 242.9 (179.1) @ 3350rpm

Dimensions L x W x H [mm (in)]: 593 x 762 x 419

(23.35 x 30 x 16.5)

Fuel - Fuel Consumption: Mogas min. AKI 90, R.O.N.

95, M.O.N. 85, LL100 - 18.6 L/h

poling System: Liquid cooled with a mechanical

ump

ffered with clockwise or anticlockwise rotation

AVIATIONEU
SUPPLIES & SERVICES

AUTHORIZED DEALER

ecommerce.aviationeu.supplies



Non-Certified





Model

SPIRIT 122 CEARED PSRU

SPIRIT 135 CEARED PSRU

Applicability





Accessories included

- Full redundancy ECU's
- Full installed engine wiring loom
- Internal generator
- Voltage regulator
- Start relay
- Installed inductive coil
- Installed cooling circuit expansion tank
- Installed cooling circuit thermostat
- Engine mount dampers (8)
- Fuse & relay (electrical hub)
- Capacitor

- Full redundancy ECU's
- Full installed engine wiring loom
- Internal generator
- Voltage regulator
- Start relay
- Installed inductive coil
- Installed cooling circuit expansion tank
- Installed cooling circuit thermostat
- Engine mount dampers (8)
- Fuse & relay (electrical hub)
- Capacitor

Additional accessories available

- Standard coolant radiator kit
- Front coolant radiators for STOL (2)
- Oil radiator kit
- Fuel pumps & filters module (2+2)
- Standard exhaust system
- Hydraulic VPP (constant speed)
- Aux generator
- EMS & sensor kit
- CAN aerospace interface
- Bed mounting adaptors (4)
- Engine-cockpit wiring loom

- Standard coolant radiator kit
- Front coolant radiators for STOL (2)
- Oil radiator kit
- Fuel pumps & filters module (2+2)
- Standard exhaust system
- Hydraulic VPP (constant speed)
- Aux generator
- EMS & sensor kit
- CAN aerospace interface
- Bed mounting adaptors (4) Engine-cockpit wiring loom

Engine Type: 4-cylinder boxer – Geared PSRU

Power: 122 Hp - Weight: 79 kg

Power/Weight Ratio [Hp/Kg (Hp/lbs.)]: 1.55 (0.70)

Max Power [Nm (Ft-lbs)]: 217.5 (160.4) @ 4000rpm Max Torque [Hp (kW)]: 122.2 (91.1) @ 4000rpm

Dimensions L x W x H [mm (in)]: 672 x 762 x 419

(26.46 x 30 x 16.5)

Fuel - Fuel Consumption: Mogas min. AKI 90, R.O.N. Fuel - Fuel Consumption: Mogas min. AKI 90, R.O.N

95, M.O.N. 85, LL100 - 18.5 L/h

Cooling System: Liquid cooled with a mechanical

pump

forced with electroise are article classics and the control of the clockwise or anticlockwise rotation

Engine Type: 4-cylinder boxer - Geared PSRU

Power: 135 Hp - Weight: 79 kg

Power/Weight Ratio [Hp/Kg (Hp/lbs.)]: 1.71 (0.78) Max Power [Hp (kW)]: 135.3 (100.9) @ 4550rpm Max Torque [Nm (Ft-lbs.)]: 218 (160.8) @ 4150rpm Dimensions L x W x H [mm (in)]: 672 x 762 x 419

(26.46 x 30 x 16.5)

95, M.O.N. 85, LL100 - 18.5 L/h

Cooling System: Liquid cooled with a mechanical





Non-Certified



Engine Type: 4-cylinder boxer - Direct Drive

Power: 135 Hp - Weight: 74 kg

Power/Weight Ratio [Hp/Kg (Hp/lbs.)]: 1.83 (0.83)

Para Revenies Walle 1952 (1962) Season Max Torque [Nm (Ft-lb)]: 255 (188.1) @ 3900rpm Dimensions Lx40-x H (mm (ja)t: 592 x 702 x 419 (23.35 × 30 × 16.5)

Fuel - Fuel Consumption: Mogas min. AKI 90, R.O.Nuel - Fuel Censumption: Mogas min. AKI 90, R.O.N. I

95, M.O.N. 85, LL100 - 34.2 L/h

Cooling System: Liquid cooled with a mechanical pump

Offered with clockwise or anticlockwise rotation

Engine Type: 4-cylinder boxer – Direct Drive

Power: 160 Hp - Weight: 74 kg

Power/Weight Ratio [Hp/Kg (Hp/!bs.)]: 2.16 (0.98) Max Power [Hp (kW)]: 160 (119.3) @ 4650rpm

Dimensions | + W. 4. [mm. [in]]: 592 + 352 + 410 HELL VERY TREE

5, M.O.N. 85, £1≇00 - 41.4 E/h

coling_System: Liquid_cooled_with a_mechanica

Market with the order of the contract of the c





Non-Certified



SPIRIT 140 CEARED PSRU

SPIRIT 160 CEARED PSRU

Applicability

























Accessories included

- Full redundancy ECU's
- Full installed engine wiring loom
- Internal generator
- Voltage regulator
- Start relay
- Installed inductive coil
- Installed cooling circuit expansion tank
- Installed cooling circuit thermostat
- Engine mount dampers (8)
- Fuse & relay (electrical hub)
- Capacitor

- Full redundancy ECU's
- Full installed engine wiring loom
- Internal generator
- Voltage regulator
- Start relay
- Installed inductive coil
- Installed cooling circuit expansion tank
- Installed cooling circuit thermostat
- Engine mount dampers (8)
- Fuse & relay (electrical hub)
- Capacitor

Additional accessories available

- Standard coolant radiator kit
- Front coolant radiators for STOL (2)
- Oil radiator kit
- Fuel pumps & filters module (2+2)
- Standard exhaust system
- Hydraulic VPP (constant speed)
- Aux generator
- EMS & sensor kit
- CAN aerospace interface
- Bed mounting adaptors (4)
- Engine-cockpit wiring loom

- Standard coolant radiator kit
- Front coolant radiators for STOL (2)
- Oil radiator kit
- Fuel pumps & filters module (2+2)
- Standard exhaust system
- Hydraulic VPP (constant speed)
- Aux generator
- EMS & sensor kit
- CAN aerospace interface
- Bed mounting adaptors (4)
- Engine-cockpit wiring loom

Engine Type: 4-cylinder boxer – Geared PSRU

Power: 140 Hp - Weight: 79 kg

Power/Weight Ratio [Hp/Kg (Hp/lbs.)]: 1.77 (0.81)

Market Control of the Annual Control of the Control MAN TO PROPERTY OF THE PARTY OF Amensional xillard (munique 572 x 152 x 419 26-46 × 30 ¥ 16-5 uel - Fuel Consumption: Mogas min. AKI SD: P.O.N.J. 19.14.05.01.85, H.160-19.5 [[A 7.4.7.1.3.2.4.7.4.7.4.4.4 epilina Curtomuliousid engladouith a resolvent and Engine Type: 4-cylinder boxer – Geared PSRU

Power: 160 Hp - Weight: 79 kg

Power/Weight Ratio [Hp/Kg (Hp/lbs.)]: 2.02 (0.92) Max Power [Hp (kW)]: 160 (119.3) @ 4650rpm Max Torque [Nm (Ft-lb)]: 255 (188.1) @ 3900rpm Dimensions L x W x H [mm (in)]: 672 x 762 x 419

(26.46 x 30 x 16.5)

Fuel - Fuel Consumption: Mogas min. AKI 90, R.O.N.

95, M.O.N. 85, LL100 - 19.3 L/h

Cooling System: Liquid cooled with a mechanical

Offered with clockwise or anticlockwise rotation

AVIATIONEU **SUPPLIES & SERVICES**

rmic Official Colorador Albania Social Social and Albania (C.C.)

THORIZED DEALER



Non-Certified

Alternatives to Other Non-Certified Engines (*)



(*) Engines in categories not covered by MWfly can be supplied from ROTAX and other manufacturers on demand.





582 UL (65HP) 2 Stroke





ROTAX.



912 UL/UL3 (80HP) 912 ULS/ULS3 (100HP) 912 iS2/iS3 (100HP) 914 UL2/ UL3 (115HP)



JABIRU 2200 (80HP)

VIKING 90 (90HP)









915 iSA/iSA C24 (141HP)









VIKING 195 TURBO (195HP)



AUTHORIZED DEALER

ecommerce.aviationeu.supplies