

Boxer Engine Comparison Chart

Make / Model	Verner 133MK
Style	2 Cylinder 4 Stroke
Horsepower	84 @ 5500 rpm 3 min. 70 continuous @ 4200
Fuel Consumption (gal. / hr.)	2.65 @ 3750 (75% power)
Total Installed Weight Dry w/ carbs, GB, ES, Alt., Coolant Containers (if any) and Exhaust	134.2 lb w/o exhaust & oil cooler 146.2 lb. installed No water weight
Cooling System	Oil / Air (wet sump)
Carburetion / Ignition	DCDI
Torque	88 ft./lb. @75%
Gear Box	Internal 2:1 or 2.29:1
Electric Start	Yes + Alternator
Engine Instruments Included	Oil Pressure Light
TBO	1000

Rotax 912	HKS 700E
4 Cylinder 4 Stroke	2 Cylinder 4 Stroke
81 @ 5500 rpm 5 min. 79 continuous @ 5000	60 @ 6200 rpm 56 @ 5800 rpm
5.1 gal. / hr. @ 75%	2.38 @ 4750 rpm
127.8 with carbs 140.8 installed + water & oil weight	55KG / 121lb.
Water / Oil / Air (dry sump)	Oil / Air
DCDI	DCDI
912: 61.2ft./lb.@75% 914: 77.6 ft./lb@75%	
Included	Included
Yes	Yes + Generator
No	
1200 (UL) 1500 (certified)	500



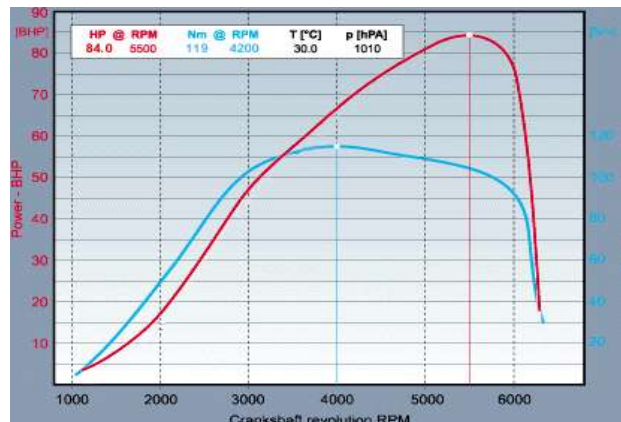
FLYDIVER, llc
VERNER ENGINES
FULL SERVICE DEALER

More & Less Than The Competition

- More Power 84hp@5500rpm
- More torque @ 75% power than R914
- Much Better Fuel Consumption 2.65 gal./hr.
- Less Plumbing Oil & Air Cooled, No Water
- Wet Sump No Radiator - No Oil Canister
- Lower Initial Cost Lower Installation Cost
- 4 Stroke Reliability **1000 Hour TBO**
- Electric Start, 160W Alternator, Dual CDI/ECU Ignition, all Standard
- *And you get the Verner 133MK for thousands less than a comparable R912*

Coming Soon

VM133MK -- Fuel Injection
Scheduled for mid 2010



WA, OR & ID Dealer:

Arthur Thompson
Verner Factory Authorized Service Technician
Shelton, WA
360.490.6268

Email: Engine_Sales@FlyDiver.com



VERNER VM133MK
84hp 1300cc
154.2 lb.

SHELTON, WA
360.490.6268

WWW.FLYDIVER.COM

Detailed Photos & Specifications
 Full Specs and Photos at WWW.FlyDiver.com

Engine Specifications

	VM133MK
Displacement	1329 cc / 85.13 cubic inch
Bore	97 mm / 3.81 inch
Stroke	90 mm / 3.54 in
Compression ratio	1 : 9.8
Max power	84 BHP (63 kW)@5500 rpm 3 min. max
Max. continuous power	70 BHP (51 kW)@4200rpm
Torque	119 Nm, 88ft/lb@4200rpm
Propeller rotation	CCW, viewed from the propeller end - like R912
Crank case and covers	Magnesium alloy
Weight bare	61 kg / 134.2 lb
Weight w/muffler & oil cooler	146.2 lb
Spark plugs	DCPR9E
Electric starter	12 V/1000 W
Generator (Alternator)	12 V/160 W (13 Amp)
Lubrication	oil class SH/SG 5
Fuel	motor petrol, octane 95
European 92 USA	
Fuel pump	Pierburg 7.20971.63
Carburetors	2 x Bing 64
Reduction drive	1:2.0 or 1:2.29 internal lubricated with motor oil
Propeller hub	ø75 x 6 x M8 mm tapped holes, ø80 x 6 x 13 holes, ø101,6 x 6 x 13 holes
Battery	17 Ah (24 Ah for best life)
Recommended TBO	1000 hours



3 Bearing Crankshaft

VM133S

Displacement	1329 cc / 85.13 cubic inch
Bore	97 mm / 3.81 inch
Stroke	90 mm / 3.54 in
Compression ratio	1 : 9.8
Max power	80 BHP @ 5500 rpm 3 min. max
Max. continuous power	68 BHP @ 4200rpm
Torque	CCW, viewed from the front (tractor propeller) - like R912
Crank case and covers	Magnesium alloy
Weight bare	60 kg / 132 lb
Weight w/muffler & oil cooler	144 lb
Spark plugs	DCPR9E
Electric starter	12 V/1000 W
Generator (Alternator)	12 V/160 W (13 Amp)
Lubrication	oil class SH/SG 5
Fuel	motor petrol, octane number 95
European 92 USA	Pierburg 7.20971.63
Fuel pump	1 x Bing 64
Carburetors	1:2.29
Reduction drive	1:2.0 or 1:2.29 internal lubricated with motor oil
Propeller hub	ø75 x 6 x M8 mm tapped holes, ø80 x 6 x 13 holes, ø101,6 x 6 x 13 holes
Battery	17 Ah (24 Ah for best life)



4 Valves Per Cylinder – Overhead Cam

Who Flies Verner Engines?

Trikes: Aerocruise, Northwing, Apex, AKS

Fixed Wing: Bailey-Moyes Dragonfly, Cherry, Cora (Cz), Drifter (Australia), Ekolot (Cz), Falcon, G3 Mirage, Genesis, Ipar Stella & Magic, Kitfox, Kolb Mk III, M-Squared, Murphy Renegade, Petrel, Potier, RANS S6, S12, S7, JK05, Revelation, RANS Coyote and Coyote II, Piper UL, Skyboy (Czech), SkyRanger, Stella, Sunny, Sunrise, TITAN, Wild Thing, Xair, Zephyr 2000, Zenith

Gyro: TwinStar

Hovercraft: Hovertech—

3 lead test engines with More than 2500 trouble free hours ** NO OVERHAUL! ******



Kitfox



Sky Ranger