



RotaPower LLC

The 4-Cycle Rotary Rotapower® 530 Series Engine

Features

- Displacement of 530cc per rotor, with configurations of one, two, three and four rotors
- Four-stroke combustion process
- High performance and small size
- Liquid cooled aluminum housings
- Reliability
- High power-to-weight ratio
- Low vibration
- Ultra-low emissions
- Low fuel consumption

Low pollution and fuel consumption

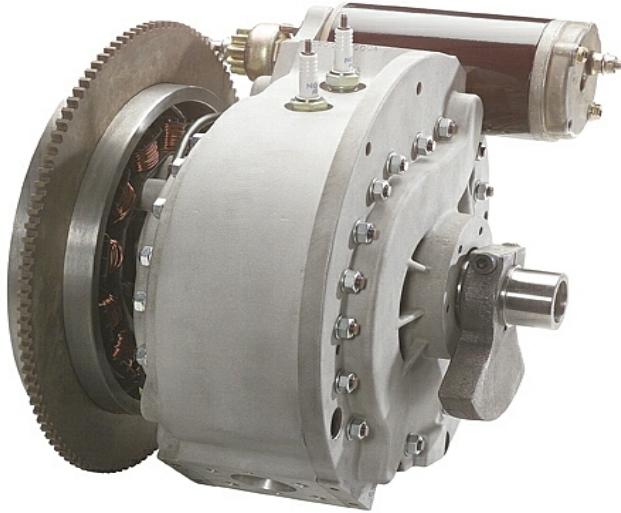
The Rotapower® engine uses a four-stroke combustion process with low combined hydrocarbon and carbon monoxide emissions (less than 1% of two-stroke levels). The lower emissions also reflect the more efficient four-stroke combustion process leading to much lower fuel consumption than the two stroke. The Rotapower's lower peak combustion temperature produces very little nitrous oxide much like the two-stroke. An oil metering system eliminates any need for fuel/oil mixing and further reduces the pollutants emitted.

Reliability

With two moving parts (single rotor), the Rotapower® engines are durable and simple to service (no timing chains, valves, camshaft, push rods, connecting rods, etc.)

Low vibration

The Rotapower® engines are virtually vibration-free since the few moving parts are dynamically balanced. All moving parts rotate, rather than the reciprocating motion found in piston engines. With minimal vibration, the Rotapower® engine can be hard mounted or used as part of a vehicle's structure.



Power-to-weight

The Rotapower® engines are very compact resulting in a high power-to-weight ratio. Four-stroke engines produce approximately one-half horsepower per pound of engine weight while two-stroke engines are capable of producing approximately one horsepower per pound. The Rotapower® produces well over one horsepower per pound of engine weight in typical applications and has the potential of up to two horsepower per pound in high-performance applications. This is important in applications requiring high power in small space along with low weight such as mini-jet boats, Jet Ski's, etc.

Charge or Air-cooled rotor

Using a charge or air-cooled rotor eliminates costly and complex components. This includes high volume oil pump, regulator, seals, plumbing and heat exchanger required by an oil-cooled rotor.



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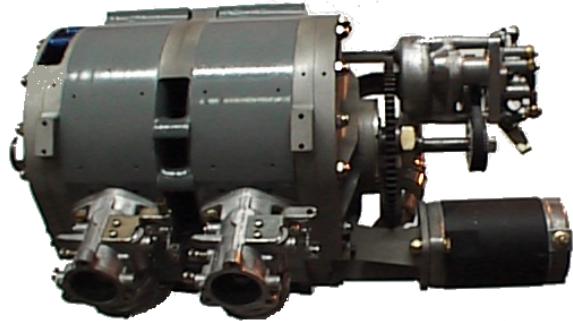
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Specifications for 530 Series Engines

Engine Type:	Rotary
Displacement:	530cc/rotor
Fuel:	Multi-fuel capable (gasoline, diesel, alcohol, natural gas, biogas)
Fuel System:	Carburetion or fuel injection
Ignition System:	Magneto/C.D.
Alternator/Starter:	12V DC
Lubrication:	Metered oil to bearings and engine seals (lost oil system). Uses synthetic, biodegradable oil.
Bearings:	Anti-friction roller bearings, thrust bearing.
Cooling:	Liquid cooled housings, charge or air-cooled rotor.



	530 SERIES			
No. Of Rotors	1	2	3	4
Displacement	530cc	1060cc	1590cc	2120cc
Housing Cooling	Liquid or Air	Liquid	Liquid	Liquid
Rotor Cooling	Charge or Air	Charge or Air	Charge or Air	Charge or Air
Max. Power (Industrial)	50 HP	100 HP	150 HP	200 HP
Max. Power (High Performance)	75 HP	150 HP	225 HP	300 HP
Rated Power (Industrial)	35 HP	70 HP	105 HP	140 HP
Rated Speed (Industrial)	4500 RPM	4500 RPM	4500 RPM	4500 RPM
Max. Speed (High Performance)	6500 RPM	6500 RPM	6500 RPM	6500 RPM
S.F.C. at Rated Speed (Industrial) *	0.45 LB/HP-HR	0.45 LB/HP-HR	0.45 LB/HP-HR	0.45 LB/HP-HR
Engine Weight**	60 LBS	90 LBS	115 LBS	140 LBS
Dimensions L, W, H***	10 x 13 x 11 in.	16 x 11 x 11 in.	21 x 11 x 11 in.	26 x 11 x 11 in.

* Depending on fuel used

** Includes starter, alternator, lubrication, fuel and ignition systems (no exhaust)

*** Long block (includes flywheel)



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