

GX Series Engines









Clockwise From Above: Honda Talon 1000X-4 Honda Ridgeline Sport Honda CRF450R Honda Accord Hybrid Honda BF250 Outboard Engines



GENUINE HONDA

here are many reasons to insist on genuine Honda Engines. As the world's largest engine manufacturer, Honda offers more engine experience than anyone. Experience born on racetracks and roadways around the globe. Experience that keeps us on the cutting edge of engine performance technology and crosses our entire product line. From automobiles, race cars, motorcycles and all-terrain vehicles to marine engines, power equipment products and general-purpose engines, Honda is committed to designing products that meet or exceed the demands of our customers across the board. Based on the wide variety of products offered with our Honda Engines, we're experts at matching the right engine for the right job and producing engines that will "get the job done."

Throughout our history, Honda has been dedicated to technological and environmental innovation, and today is no different. After all, we have a legendary reputation to live up to. A reputation for unsurpassed quality, performance and reliability. A reputation worth considering the next time you're in the market for an engine.



Net Power

The SAE J1349 standard measures net horsepower with the manufacturer's production muffler and air cleaner in place. Net horsepower more closely correlates with the power the operator will experience when using a Honda Engine powered product. The power rating of the engines indicated in this document is the net power output tested on a production engine for the model noted and measured at the rpm specified. Mass production engines may vary from this value. Actual power output for the engine installed in the final machine will vary depending on numerous factors, including the operation speed of the engine in application, environmental conditions, maintenance and other variables.



Honda GX Series Engines carry a 3-Year Warranty.* You always knew they were worry free, but now we've put it in writing.

*Warranty applies to all Honda GX Series engines, 100cc or larger purchased at retail or put into rental service since January 1, 2009. Warranty excludes Honda GXV140 and GXV160 models. See full warranty details at engines.honda.com.

The GX Series Engines have reliability written all over them.

Honda GX Series Engines have long been recognized as the industry leader in providing reliable, easy-starting, and fuel efficient small engines. You'll find Honda GX Series overhead valve engines on a wide variety of construction, maintenance, and premium power equipment. The rental industry, where power equipment is subjected to the ultimate test of durability, relies heavily on Honda OHV engines to ensure customer satisfaction and a minimal level of maintenance and repair. When it comes to reliability, trust the engines with the Honda name.

GX Series Engines — The Next Generation. (Models GX120 – GX390)

Less Noise Than Previous GX Models

The operator will enjoy noise reduction levels ranging from 2.5 to 8 db thanks to Honda's redesigned air cleaner and muffler. Vibration levels have also been reduced through the use of an all new, lightweight piston.

Same "Footprint"

OEMs can pass along new improvements and features without having to worry about costly and time consuming product modifications. New GX Series models have the exact footprint and fit into the same envelope as their similarly sized predecessors.

Reduction Units

The 2-to-1 reduction unit is chain or gear driven and may include an automatic, centrifugally operated clutch. Clutch engagement occurs at 1800 rpm and clutch lock occurs at 2200. The 6-to-1 gear reduction is gear driven and does not include a clutch.



Quality and performance are standard with Honda GX Series Engines.

From cast iron cylinder sleeves to Automatic Decompression, Honda offers a variety of power solutions to meet your specific application. Choose from over 160 standard single cylinder engine variations. A variety

of features are available, depending on the specific model and application, including four types of air filtration systems and Oil Alert[®] which warns the user before oil reaches an unsafe operating level. Other options include 2-to-1 and 6-to-1 reduction units, 1 to 18 amp charging, lamp coils and shaft variations to suit every standard application. For the most current information on Honda Engine technologies, visit our website at engines.honda.com.

Honda's advanced engine technology offers a number of distinct advantages including fuel savings, lower emissions, and standardized replacement parts readily available through one of over 8,600 local Honda Engine dealers, nationwide. For the most current information on Honda Engine distributors and dealers, visit our website at engines.honda.com.

Prove it to yourself.

Next time you visit a rental center, see a landscape truck or pass by a construction site, you'll probably see a Honda GX enginepowered piece of equipment. Stop and ask them what they think of the Honda Engine. Chances are they'll tell you they wouldn't use anything else. Sure, you can find a less expensive engine, but you won't find a more reliable one.

Air Filtration Systems

Honda offers a variety of air filters to match your application, including dual-element, semi-dry, oil-bath and Cyclone Air Cleaner with inner-vent carburetor. "Inner-vent" carburetors are now available on specific models with dual-element filters.

Honda's inner-vent carburetor places the float bowl vent on the "clean side" of the air filter elements so that the air/fuel ratio remains more constant as the elements become dirty. This allows the length of the service interval for air filter maintenance to be more than doubled.



Inner-Vent Portion

Horizontal Shaft

	Engine Type	Air-cooled, 4-Stroke, OHV, single cylinder	
	Bore x Stroke	1.65" x 1.42" (41.8 x 36 mm)	
GXH50	Displacement	2.99 cu in (49 cm3)	(N·m) NET TORQUE (b)
	Compression Ratio	8.0 : 1	2.5
			2.0
	Net Power (kW/rpm)*	2.1 hp (1.6kW) at 7,000 rpm	(KW) NET POWER (H
THOM OF	Net Torque*	2.0 lbs ft (2.7 Nm) at 4,500 rpm	
	PTO Shaft Rotation	Counterclockwise (from PTO shaft side)	
	Ignition System	Transitorized Magneto	1.5 -
	Starting System	Recoil Starter	
	Carburetor	Float Type	1.0
	Lubrication System	Forced Splash	
	Governor System	Centrifugal Mechanical	
KONDA	Air Cleaner	Semi-dry Type	0.5
GXH	Oil Capacity	0.26 US gt (0.25 L)	OPERATING SPEED RANGE
	Fuel Tank Capacity (liter)	0.81 US qt (0.77 L)	
Standard Con	Dimensions (L x W x H)	8.9" (225mm) x 10.8" (274mm) x 13.0" (353mm)	3000 4000 5000 6000 7000 800 ENGINE SPEED (rpm)
	Dry Weight	12.1 lbs (5.5 kg)	
01400	Engine Type	Air-cooled, 4-Stroke, OHC, single cylinder	
GX100	Bore x Stroke	2.2" x 1.6" (56 x 40 mm)	(N·m) NET TORQUE (lbf
	Displacement	6.0 cu in (98 cm3)	
	Compression Ratio	8.5 : 1	
	Net Power (kW/rpm)*	2.8hp (2.1kW) at 3,600 rpm	4
	Net Torque*	4.2 lbs ft (5.7 Nm) at 3,600 rpm	(kW) NET POWER (H
	PTO Shaft Rotation	Counterclockwise (from PTO shaft side)	
	Ignition System	Transitorized Magneto	
	Starting System	Recoil Starter	2
	Carburetor	Horizontal type butterfly valve	
	Lubrication System	Forced Splash	
	Governor System	Centrifugal Mechanical	1
	Air Cleaner	Dual Element Type	RECOMMENDED
HONDA			
	Oil Capacity	0.42 US qt (0.40 L)	2000 2500 3000 3600 4000
	Fuel Tank Capacity (liter)	0.81 US qt (0.77 L)	ENGINE SPEED (rpm)
	Dimensions (L x W x H)	11.6" (295mm) x 12.0" (304mm) x 15.8" (402mm)	
	Dry Weight	23.4 lbs (10.6 kg)	
	Engine Type	Air-cooled, 4-Stroke, OHV, single cylinder	
GXR120	Bore x Stroke	2.4" x 1.7" (60 x 43 mm)	
	Displacement	7.4 cu in (121 cm3)	(N·m) NET TORQUE (lbf
	Compression Ratio	8.5 : 1	7-
	Net Power (kW/rpm)*	3.5 hp (2.6 kW) at 3,600 rpm	
	Net Torque* PTO Shaft Rotation	5.5 lbs ft (7.5 Nm) at 2,500 rpm Counterclockwise (from PTO shaft side)	(kW) NET POWER (H
			3
		Irancistor Magnoto	
	Ignition System	Transistor Magneto Recoil Starter	
	Starting System	Recoil Starter	
	Starting System Carburetor	Recoil Starter Diaphragm	2
	Starting System Carburetor Lubrication System	Recoil Starter Diaphragm Splash	2
	Starting System Carburetor Lubrication System Governor System	Recoil Starter Diaphragm Splash Mechanical	2
	Starting System Carburetor Lubrication System Governor System Air Cleaner	Recoil Starter Diaphragm Splash Mechanical Dry Type	1-
	Starting System Carburetor Lubrication System Governor System Air Cleaner Oil Capacity Fuel Tank Capacity (liter)	Recoil Starter Diaphragm Splash Mechanical Dry Type 0.29 US qt (0.28 L) Without Tank	2
	Starting System Carburetor Lubrication System Governor System Air Cleaner Oil Capacity	Recoil Starter Diaphragm Splash Mechanical Dry Type 0.29 US qt (0.28 L) Without Tank OEM Provided	1-
	Starting System Carburetor Lubrication System Governor System Air Cleaner Oil Capacity Fuel Tank Capacity (liter) Evaporative Emissions Exhaust Emissions	Recoil Starter Diaphragm Splash Mechanical Dry Type 0.29 US qt (0.28 L) Without Tank OEM Provided Certified for use in all 50 states	1 =
	Starting System Carburetor Lubrication System Governor System Air Cleaner Oil Capacity Fuel Tank Capacity (liter) Evaporative Emissions Exhaust Emissions Dimensions (L x W x H)	Recoil Starter Diaphragm Splash Mechanical Dry Type 0.29 US qt (0.28 L) Without Tank OEM Provided Certified for use in all 50 states 10.2" (259 mm) x 11.6" (294 mm) x 11.4" (290 mm)	
	Starting System Carburetor Lubrication System Governor System Air Cleaner Oil Capacity Fuel Tank Capacity (liter) Evaporative Emissions Exhaust Emissions	Recoil Starter Diaphragm Splash Mechanical Dry Type 0.29 US qt (0.28 L) Without Tank OEM Provided Certified for use in all 50 states	1
	Starting System Carburetor Lubrication System Governor System Air Cleaner Oil Capacity Fuel Tank Capacity (liter) Evaporative Emissions Exhaust Emissions Dimensions (L x W x H) Dry Weight	Recoil Starter Diaphragm Splash Mechanical Dry Type 0.29 US qt (0.28 L) Without Tank OEM Provided Certified for use in all 50 states 10.2" (259 mm) x 11.6" (294 mm) x 11.4" (290 mm) 23 lbs (10.4 kg)	1
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GX120	Starting System Carburetor Lubrication System Governor System Air Cleaner Oil Capacity Fuel Tank Capacity (liter) Evaporative Emissions Exhaust Emissions Dimensions (L x W x H) Dry Weight Engine Type Bore x Stroke	Recoil Starter Diaphragm Splash Mechanical Dyr Type 0.29 US qt (0.28 L) Without Tank OEM Provided Certified for use in all 50 states 10.2° (259 mm) x 11.6° (294 mm) x 11.4° (290 mm) 23 lbs (10.4 kg) Air-cooled, 4-Stroke, OHV, single cylinder 2.4° x 1.7° (60 x 42 mm)	ENGINE SPEED (rpm)
GX120	Starting System Carburetor Lubrication System Governor System Air Cleaner Oil Capacity Fuel Tank Capacity (liter) Evaporative Emissions Exhaust Emissions Dimensions (L x W x H) Dry Weight Engine Type	Recoil Starter Diaphragm Splash Mechanical Dry Type 0.29 US qt (0.28 L) Without Tank OEM Provided Certified for use in all 50 states 10.2" (259 mm) x 11.6" (294 mm) x 11.4" (290 mm) 23 lbs (10.4 kg) Air-cooled, 4-Stroke, OHV, single cylinder	(N-m) NET TORQUE (bb)
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GX120	Starting System Carburetor Lubrication System Governor System Air Cleaner Oil Capacity Fuel Tank Capacity (liter) Evaporative Emissions Exhaust Emissions Dimensions (L x W x H) Dry Weight Engine Type Bore x Stroke Displacement Compression Ratio Net Power (kW/rpm)*	Recoil Starter Diaphragm Splash Mechanical Dy Type 0.29 US qt (0.28 L) Without Tank OEM Provided Certified for use in all 50 states 10.2" (259 mm) x 11.6" (294 mm) x 11.4" (290 mm) 23 lbs (10.4 kg) Air-cooled, 4-Stroke, OHV, single cylinder 2.4" x 1.7" (60 x 42 mm) 7.2 cu in (118 cm3) 8.5 : 1 3.5 hp (2.6 kW) at 3,600 rpm 5.4 lbs ft (7.3 Nm) at 2,500 rpm	(N-m) NET TORQUE (D
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* The power rating of the engines indicated in this document measures the net power output at 3600 rpm (7000 rpm for model GXH50, GXV50, GX25 and GX35) and net torque at 2500 rpm, as tested on a production engine. Mass production engines may vary from this value. Actual power output for the engine installed in the final machine will vary depending

Engine Type Bore x Stroke

Displacement Compression Ratio Net Power (kW/rpm)*

Net Torque* PTO Shaft Rotation Ignition System

Starting System

Lubrication System

Governor System

Carburetor

Air Cleaner

Evaporative Emissions

Dimensions (L x W x H) Q-Shaft

Exhaust Emissions

Dry Weight

Horizontal Shaft



Engine Type	Air-cooled, 4-Stroke, OHV, single cylinder			
Bore x Stroke	2.7" x 1.8" (68 x 45 mm)			
Displacement	9.9 cu in (163 cm3)	(N•m)	NET TORQUE	(lbf•
Compression Ratio	9.0 : 1			71
Net Power (kW/rpm)*	4.8 hp (3.6 kW) at 3,600 rpm	14 12		11
Net Torque*	7.6 lbs ft (10.3 Nm) at 2,500 rpm	10		41
PTO Shaft Rotation	Counterclockwise (from PTO shaft side)	8		1
Ignition System	Transistor Magneto	(kW)	NET POWER	
Starting System	Recoil & Electric Starter	5	NETPOWER	
Carburetor	Butterfly			
Lubrication System	Splash	4		
Governor System	Mechanical			
Air Cleaner	Dual Element	3-		-11
Oil Capacity	0.61 US qt (0.58 L)	2		_11
Fuel Tank Capacity (liter)	3.3 US qt (3.1 L)		RECOMMENDED OPERATING SPEED RANGE	
Evaporative Emissions	Low permeation hose and purge joint provided	1 L 📛		
Exhaust Emissions	Certified for use in all 50 states	2000	2500 3000 3500	4000
Dimensions (L x W x H) Q-Shaft	12.2" (312 mm) x 14.3" (362 mm) x 13.6" (346 mm)	E	NGINE SPEED (rpm	n)
Dry Weight	33 lbs (15.1 kg)			

Air-cooled, 4-Stroke, OHV, single cylinder 2.7" x 2.1" (68 x 54 mm) 12 cu in (196 cm3)

12 cd in (190 cms) 8.5 : 1 5.5 hp (4.1 kW) at 3,600 rpm 9.1 lbs ft (12.4 Nm) at 2,500 rpm Counterclockwise (from PTO shaft side) Transistor Magneto Recoil & Electric Starter Puttorft

Butterfly

Splash

Mechanical

Dual Element 0.63 US qt (0.60 L)







All Gleanel	Duai Lieinent	r
Oil Capacity	0.63 US qt (0.60 L)	2 - RECOMMENDED OPERATING SPEED RANGE
Fuel Tank Capacity (liter)	3.3 US qt (3.1 L)	
Evaporative Emissions	Low permeation hose and purge joint provided	
Exhaust Emissions	Certified for use in all 50 states	2000 2500 3000 3500 40
Dimensions (L x W x H) Q-Shaft	12.6" (321 mm) x 14.8" (376 mm) x 13.6" (346 mm)	ENGINE SPEED (rpm)
Dry Weight	35 lbs (16.1 kg)	
Engine Type	Air-cooled, 4-Stroke, OHV, single cylinder	
Bore x Stroke	3.0" x 2.3" (77 x 58 mm)	
Displacement	16 cu in (270 cm3)	(N-m) NET TORQUE (Ib
Compression Ratio	8.5 : 1	19
Net Power (kW/rpm)*	7.9 hp (5.9 kW) at 3,600 rpm	17
Net Torque*	13.5 lbs ft (18.3 Nm) at 2,500 rpm	16
PTO Shaft Rotation	Counterclockwise (from PTO shaft side)	(kW) NET POWER (F
Ignition System	Digital CDI with variable ignition timing	8
Starting System	Recoil & Electric Starter	
Carburetor	Butterfly	6
Lubrication System	Splash	
Governor System	Centrifugal Mass Type	4
Air Cleaner	Dual Element	* [*].
Oil Capacity	1.16 US gt (1.1 L)	
Fuel Tank Capacity (liter)	6.4 US qt (6.1 L)	2
		RECOMMENDED OPERATING SPEED RANGE
Evaporative Emissions	Low permeation hose and purge joint provided	
Exhaust Emissions	Certified for use in all 50 states	2000 2500 3000 3500
Dimensions (L x W x H) Q-Shaft	15.0" (380 mm) x 16.9" (429 mm) x 16.6" (422 mm)	ENGINE SPEED (rpm)
Dry Weight	55 lbs (25.0 kg)	
Engine Type	Air-cooled, 4-Stroke, OHV, single cylinder	
Bore x Stroke	3.0" x 2.3" (77 x 58 mm)	
Displacement	16 cu in (270 cm3)	(N-m) NET TORQUE (lb
Compression Ratio	8.5 : 1	19
Net Power (kW/rpm)*	8.5 hp (6.3 kW) at 3,600 rpm	18
Net Torque*	14.1 lbs ft (19.1 Nm) at 2,500 rpm	16
PTO Shaft Rotation	Counterclockwise (from PTO shaft side)	(kW) NET POWER (F
Ignition System	Digital CDI with variable ignition timing	8
Starting System	Recoil & Electric Starter	
Carburetor	Butterfly	6
Lubrication System	Splash	
Governor System	Centrifugal Mass Type	4
Air Cleaner	Dual Element	
Oil Capacity	1.16 US at (1.1 L)	
Fuel Tank Capacity (liter)	6.4 US qt (6.1 L)	2 - RECOMMENDED OPERATING SPEED RANGE
Evenerative Emissions	0.4 03 yr (0.1 L)	OPERATING SPEED RANGE

Low permeation hose and purge joint provided Certified for use in all 50 states 15.0" (380 mm) x 16.9" (429 mm) x 16.6" (422 mm)

55 lbs (25.0 kg)

on numerous factors, including the operating speed of the engine in application, environmental conditions, maintenance and other variables.

Specifications are subject to change without notice.

2500 3000 3500

ENGINE SPEED (rpm)

NET TOROUE

NET POWER

(N•m)

16 14 12

10 8 6

(kW)

(lbf-ft)

(HP) e

(lbf-ft)

(HP)

6

5

3

13 12

10

(HP

(lbf•ft)

13 12

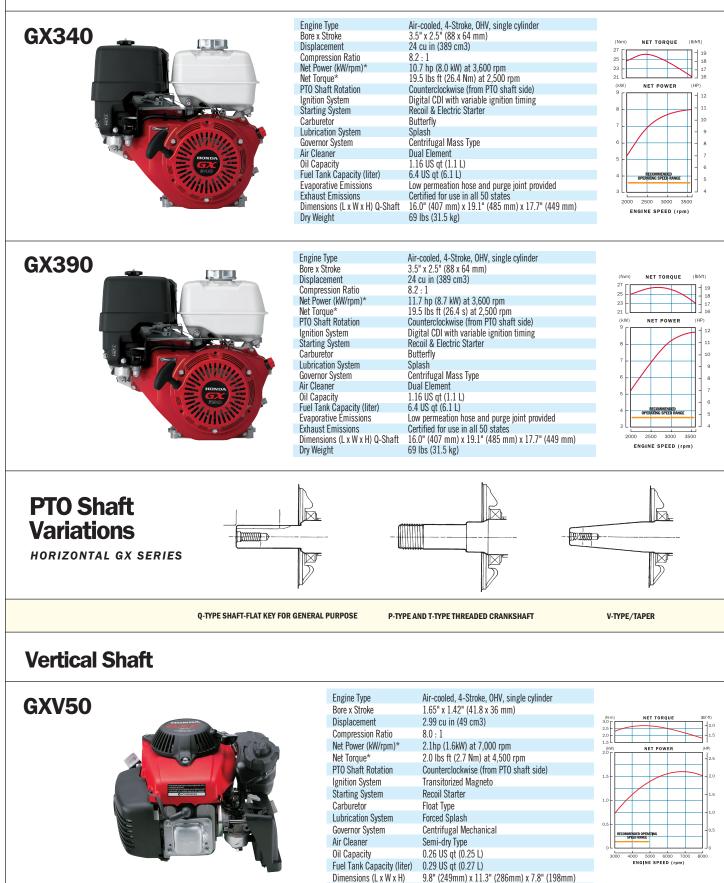
3500 4000

10 8

10

8

Horizontal Shaft cont.



* The power rating of the engines indicated in this document measures the net power output at 3600 rpm (7000 rpm for model GXH50, GXV50, GX25 and GX35) and net torque at 2500 rpm, as tested on a production engine. Mass production engines may vary from this value. Actual power output for the engine installed in the final machine will vary depending

11.5 lbs (5.2 kg)

Dry Weight

Engine Type

Bore x Stroke

Displacement

Net Torque*

Compression Ratio

PTO Shaft Rotation

Ignition System

Starting System

Governor System

Carburetor Lubrication System

Air Cleaner

Oil Capacity

Dry Weight

Vertical Shaft

GXV57





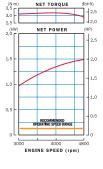
GXV340



GXV390

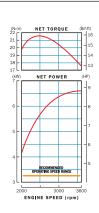


Engine Type	Air-cooled, 4-Stroke, OHV, single cylinder
Bore x Stroke	1.8" x 1.4" (45 x 36 mm)
Displacement	2.5 cu in (57.3 cm3)
Compression Ratio	8.0 : 1
Net Power (kW/rpm)*	2.0hp (1.5kW) at 4,800 rpm
Net Torque*	2.4 lbs ft (3.2 Nm) at 4,000 rpm
PTO Shaft Rotation	Counterclockwise (from PTO shaft side)
Ignition System	Transitorized Magneto
Starting System	Recoil Starter
Carburetor	Float Type
Lubrication System	Forced Spray
Governor System	Centrifugal Mechanical
Air Cleaner	Semi-dry Type
Oil Capacity	0.26 US qt (0.25 L)
Fuel Tank Capacity (liter)	0.29 US qt (0.27 L)
Dimensions (L x W x H)	9.8" (249mm) x 11.3" (286mm) x 9.5" (240mm)
Dry Weight	11.9 lbs (5.4 kg)

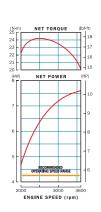


Engine Type	Air-cooled 4-stroke OHV single cylinder	
Bore x Stroke	2.7" x 1.8" (68 x 45 mm)	
Displacement	10 cu in (163 cm3)	(N·m) NET TORO
Compression Ratio	8.0 : 1	
Net Power (kW/rpm)*	4.3hp (3.2kW) at 3,600 rpm	(kW) NET POW
Net Torque*	7.1 lbs ft (9.6 Nm) at 2,500 rpm	
PTO Shaft Rotation	Counterclockwise (from PTO shaft side)	3-
Ignition System	Transitorized Magneto	
Starting System	Recoil Starter	2
Carburetor	Horizontal type butterfly valve	2
Lubrication System	Forced Splash	
Governor System	Centrifugal Mechanical	1 -
Air Cleaner	Dual Element	OPERATING SPEED
Oil Capacity	0.69 US qt (0.65 L)	2000 300
Fuel Tank Capacity (liter)	1.9 US qt (1.8 L)	ENGINE SPEED
Dimensions (L x W x H)	16.3" (415mm) x 14.1" (359mm) x 13.9" (354mm)	
Dry Weight	31.5 lbs (14.3 kg)	

Air-cooled 4-stroke OHV single cylinder 3.2" x 2.5" (82 x 64 mm) 20.6 cu in (337 cm3) 7.7 : 1 Net Power (kW/rpm)* 8.9hp (6.6kW) at 3,600 rpm 15.9 lbs ft (21.6 Nm) at 2,500 rpm Counterclockwise (from PTO shaft side) Transitorized Magneto Recoil and Electric Starter Horizontal type butterfly valve Pressure and Splash Centrifugal Mechanical Dual Element 1.2 US qt (1.1 L) Fuel Tank Capacity (liter) 2.2 US qt (2.1 L) Dimensions (L x W x H) 17.0" (433mm) x 15.0" (382mm) x 15.9" (406mm) 71.2 lbs (32.3 kg)



	Engine Type	Air-cooled, 4-Stroke, OHV, single cylinder
	Bore x Stroke	3.5" x 2.5" (88 x 64 mm)
	Displacement	23.7 cu in (389 cm3)
	Compression Ratio	7.7 : 1
	Net Power (kW/rpm)*	10.2hp (7.6kW) at 3,600 rpm
	Net Torque*	17.8 lbs ft (24.2 Nm) at 2,500 rpm
	PTO Shaft Rotation	Counterclockwise (from PTO shaft side)
	Ignition System	Transitorized Magneto
	Starting System	Recoil and Electric Starter
	Carburetor	Horizontal type butterfly valve
	Lubrication System	Pressure and Splash
	Governor System	Centrifugal Mechanical
	Air Cleaner	Dual Element
	Oil Capacity	1.2 US qt (1.1 L)
	Fuel Tank Capacity (liter)	2.2 US qt (2.1 L)
	Dimensions (L x W x H)	17.0" (433mm) x 15.0" (382mm) x 15.9" (406mm)
	Dry Weight	73.3 lbs (33.3 kg)



on numerous factors, including the operating speed of the engine in application, environmental conditions, maintenance and other variables.

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