News from Honda

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For Immediate Release

Honda Introduces All-New Large GX and *i*GX Engines Series

New Engines Offer More Power, Better Fuel Economy and Low Noise

LAS VEGAS, Nev., February 2, 2010 – Honda today introduced an all-new generation of its versatile and reliable GX and *i*GX series of general purpose engines at the 2010 World of Concrete show in Las Vegas. The new generation GX Series, Honda's legendary family of commercial grade engines, brings improvements in power, fuel efficiency, emissions performance and quiet operation to the already popular engine line.

Featuring four all-new models, the large GX engine line combines increased power and versatility with greater fuel economy in the same envelope. The new GX240, GX270, GX340 and GX390 engine models are overhead valve (OHV) horizontal shaft engines that offer users durable power for a wide range of demanding commercial, construction and rental applications.

In addition to the new GX series, Honda is expanding its *i*GX series with an all-new *i*GX340 and *i*GX390 engine. The *i*GX series offers further enhancements to the GX series, incorporating an electronic self tuning regulator (STR) governor. Similar to GX, *i*GX engines are also (OHV) horizontal shaft engines, yet provide additional advanced technologies for more complex applications.

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"Our new GX and *i*GX series of engines have been redesigned to provide more power and excellent fuel efficiency while reducing emissions and noise," said Scott Conner, assistant vice president, Honda Engines. "The new GX and *i*GX bring an enhanced level of value and performance to our customers."

Potential applications for the large GX series of engines include:

- Commercial Concrete Equipment
- Commercial Generators
- Water pumps
- Trenchers
- Chippers/shredders
- Air compressors
- Stump grinders
- Pressure washers
- Aerial lifts and platforms

The new large GX series of engines features a host of technologies and design elements that allow for improved power output. The new GX models produce 6 percent more power than previous models, making them among the most powerful engines in each of their respective categories. This additional power is achieved via an advanced combustion chamber design, the implementation of Digital Capacitive Discharge Ignition (CDI) with variable ignition timing, and an increased compression ratio.

Along with improved power, the new GX series of engines provides a significant reduction in noise and vibration, which is vital to end users of both commercial and residential engine applications. Noise has been reduced up to 5 decibels, making the new GX one of the quietest engines available in its class. A new reed-style breather valve and a new muffler design also contribute to the engine's quiet operation, while a new light weight piston allows an optimized overbalance ratio for less operating vibration.

Although fuel efficiency is a key attribute of all Honda engines, fuel consumption in the new GX family of engines has been significantly improved for 2010. The new

large GX engines increase fuel efficiency by 12 percent. In addition to increased fuel efficiency, the new GX engines will meet the 2011 EPA exhaust emission regulations without the use of a catalyst.

The all-new *i*GX engine series features an integrated electronic control unit (ECU) using Honda STR governor technology. A long life multi layer gradient density-type air filter extends the air cleaner maintenance interval by 50 percent. Premium features such as an electronically controlled governor, fully automatic choke and an automotive style electric starter are standard on the *i*GX series engines.

Potential new applications and attributes of this technology include:

- pressure washers that automatically respond to the load when the user squeezes or releases the trigger handle;
- water pumps that can be automatically activated by a remote switch based on water level;
- generators that can automatically respond to load and adjust engine speed based on electrical draw.
- drive-by-wire applications, including utility vehicles, scissor lifts, ride-on trowels and other remotely operated products.

Honda is the world's preeminent engine maker, selling more than 24 million units globally in 2008 through a diverse array of automotive, motorcycle, and power equipment products. Honda engines are characterized by the same quiet and fuel-efficient technology that is behind the company's reputation for premium quality.

Honda GX Specifications

	GX240	GX270	GX340	GX390
Engine Type	Air-cooled, 4-Stroke, OHV, single cylinder			
Bore x Stroke	3.0" x 2.3" (77 x 58 mm)		3.5" x 2.5" (88 x 64 mm)	
Displacement	16 cu in (270 cm3)		24 cu in (389 cm3)	
Compression Ratio	8.5 : 1		8.2 : 1	
Net power (kW/rpm)*	7.9 hp (5.9 kW)	8.5 hp (6.3 kW)	10.7 hp (8.0 kW)	11.7 hp (8.7 kW)
Net Torque*	13.5 lbs ft (18.3 Nm)	14.1 lbs ft (19.1 Nm)	19.5 lbs ft (26.4 Nm)	
PTO Shaft Rotation	Counterclockwise (from PTO shaft side)			
Ignition System	Digital CDI with variable ignition timing			
Starting System	Recoil Starter			
Carburetor	Butterfly			
Lubrication System	Splash			
Governor System	Centrifugal Mass Type			
Air Cleaner	Dual Element			
Oil Capacity	1.16 US qt (1.1 L)			
Fuel Tank Capacity	5.6 US qt (GX240/GX270) 6.4 US qt (GX340/GX390			
Evaporative Emissions	Low permeation hose and purge joint provided			
Exhaust Emissions	Certified for use in all 50 states			
Dimensions (L x W x H) Q-Shaft	15.0" (380 mm) x 16.9" (429 mm) x 16.6" (422 mm)		16.0" (407 mm) x 18.1" (459 mm) x 17.7" (449 mm)	
Dry Weight	55 lbs (25.0 kg)		69 lbs (31.5 kg)	

* The power rating of the engine indicated in this document is the net power output tested on a production engine for the engine model and measured in accordance with SAE J1349 at 3,600 rpm (net power) and at 2,500 rpm (Max net torque). 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 operating speed of the engine in application, environmental conditions, maintenance, and other variables.

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Honda iGX Specifications

	iGX340	iGX390
Engine Type	Air-cooled, 4-Stroke, OHV, single cylinder	
Bore x Stroke	3.5" x 2.5" (88 x 64 mm)	
Displacement	24 cu in (389 cm3)	
Compression Ratio	8.2 : 1	
Net power (kW/rpm)*	10.7 hp (8.0 kW)	11.7 hp (8.7 kW)
Net Torque*	19.5 lbs ft (26.4 Nm)	
PTO Shaft Rotation	Counterclockwise (from PTO shaft side)	
Ignition System	Digital CDI with variable ignition timing	
Starting System	Electric Starter	
Carburetor	Float type - Horizontal Butterfly	
Lubrication System	Splash	
Governor System	Electric STR (Self Tuning)	
Air Cleaner	Dual Element	
Oil Capacity	1.16 US qt (1.1 L)	
Fuel Tank Capacity	6.4 US qt (6.1 L)	
Evaporative Emissions	Low permeation hose and purge joint provided	
Exhaust Emissions	Certified for use in all 50 states	
Dimensions (L x W x H) Q-Shaft	16.0" (407 mm) x 19.1" (485 mm) x 17.7" (449 mm)	
Dry Weight	82 lbs (37.0 kg)	

* The power rating of the engine indicated in this document is the net power output tested on a production engine for the engine model and measured in accordance with SAE J1349 at 3,600 rpm (net power) and at 2,500 rpm (Max net torque). 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 operating speed of the engine in application, environmental conditions, maintenance, and other variables.

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Editor's Note:

Honda Power Equipment, a division of American Honda Motor Co., Inc., markets a complete range of outdoor power equipment, including outboard marine engines, general purpose engines, generators, lawnmowers, pumps, snowblowers, tillers and trimmers for commercial, rental and residential applications. Its comprehensive product line consists exclusively of 4-stroke engines.

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