

HONDA

V-Twin Series Engines



Built like no other.

How do you earn people's trust? You do it by building fuel efficient, reliable products, exceeding customer's expectations, earning a great reputation, but never resting on your laurels. This simple philosophy has helped make Honda the world's largest engine manufacturer. Our name stands for outstanding performance, cutting edge technology, and overall value. It seamlessly transcends from jets to automobiles, motorcycles to ATVs, marine engines to power equipment like lawn mowers and generators, and of course, to our general purpose engines.

In fact, Honda's newly redesigned V-Twin engines are infused with racing technologies we've perfected on blacktops and dirt trails throughout the world. The result is a 688cc engine that delivers remarkable power and torque when and where you need it. They offer improved horsepower but come in a compact frame increasing their versatility. Our racing heritage also means extra features and precision engineering you just won't find anywhere else. As you're about to discover, our new V-Twins really are built like no other.

**GENUINE
HONDA**

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 Fit EV Concept Vehicle



Honda Jet



Honda CBR1000RR



Honda Aquatrax



Honda BF250 Outboard



*MCHP (Micro-sized
Combined Heat and
Power System)*



*Honda Advanced
Robotics - Asimo*

We raised the bar on everything.

Honda's V-Twins have been redesigned from the ground up. The result is a highly advanced style of engine that not only looks different, but works harder than ever and offers exceptional versatility.

Honda engines already have a legendary reputation for toughness, reliability, quiet operation and fuel efficiency. Our all-new V-Twins also offer higher horsepower, improved adaptability, greater compactness, convenient controls, greater fuel economy and, for the first time ever, a 3-year engine warranty.

Plus, customers notice Honda engines. Honda adds value to your product and speaks volumes about quality, attention to detail, and jobs well done.



Our 3-Year Warranty



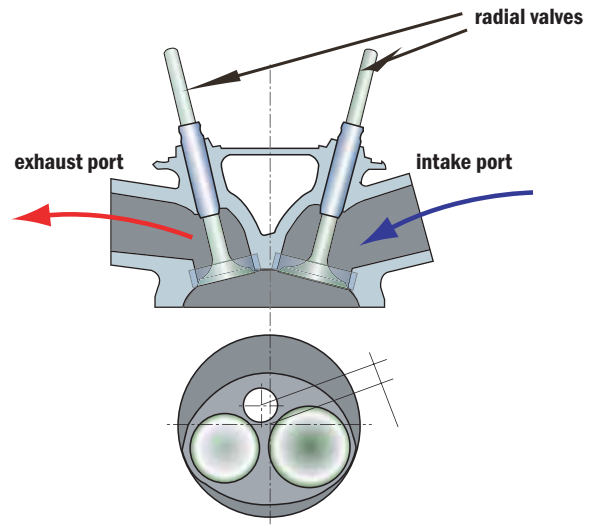
For the first time ever, Honda's V-Twin engines come with a 3-year warranty. This warranty applies to GX series engines 100cc or larger purchased at retail or put into rental service after January 1st, 2009.

Warranty excludes the Honda GXV160 model. See full warranty details at honda.com.

Why they're the best.

More Power

Our Hemispherical Combustion Chamber was inspired by Honda's racing technology and offers the highest V-Twin compression ratio on the market. The power is transmitted through forged-steel connecting rods and a forged-steel crankshaft, supported by a full-pressure lubrication system. This means increased engine efficiency and more thorough transfer of power to your application.



The hemispherical combustion chamber and nearly-centered spark plug layout delivers rapid and efficient combustion.

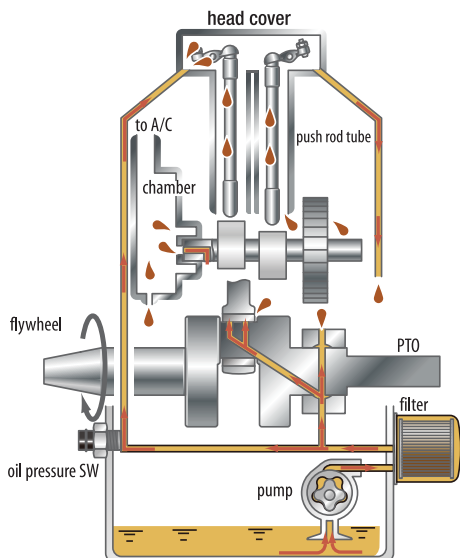
More Compact

Our V-Twin engines provide extraordinary applied technology and power output. Add in exceptional compactness and the result is more net horsepower you can truly use.

Proven Fuel Economy

We've always been known for fuel efficiency, but these new V-Twins have raised the bar again. A Two Barrel Inner-vent Carburetor provides more precise fuel metering for optimal air/fuel ratio. Meanwhile, our Multi-Layer Density Gradient Air Filter captures dirt better which offers a higher degree of engine protection, improved fuel economy and cuts down on maintenance intervals. The bottom line is fuel economy comparable to fuel injection with the simplicity of carburetion.

Improved Lubrication and Cooling



The lubrication system uses a high capacity pump with discrete chambers to facilitate consistent oil delivery thus reducing friction and extending engine life.



Cooling performance is improved while noise is reduced with the large diameter air intake, optimized 36-blade cooling fan and smooth scroll-shaped resin shroud.

Fewer Parts That Add Up To More

While we're talking about all the things that go into our V-Twins, let's mention a few things that don't: like catalytic converters, head gaskets and head bolts. They're not necessary. In fact, our V-Twins have fewer parts but this means a lot of benefits. Like better cooling and a lot less to go wrong, providing more overall durability. Fewer parts also mean a quieter running engine with unprecedented performance.

Variable Timing Digital CDI

Another impressive feature is our Variable Timing Digital CDI ignition. It allows optimal ignition timing based on engine speed. This provides for excellent starting, high power output, and reduced fuel consumption for outstanding emissions performance. An engine rev limiter is also incorporated to prevent over-revving.



Digital CDI Ignition Coil

Low Emissions

Honda engines are certified to comply with both CARB (the California Air Resources Board) and the EPA (Environmental Protection Agency) emission regulations. In fact our new V-Twin engine meets the emission requirements currently set by the EPA for 2011 and beyond – with no need for a catalytic converter.

Convenient Controls and Higher Capacity Charging System



The all-new control box, depending on model, includes the start/stop switch, choke and throttle controls, an Oil Alert® LED and a built-in hour meter.

12V-2.7A



12V-17A



**New
12V-26A**



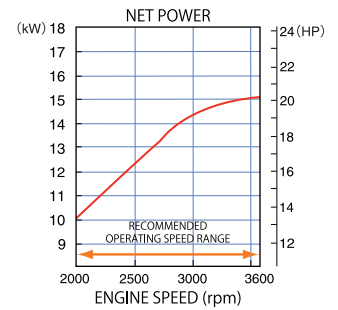
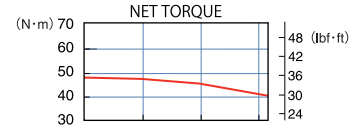
High-power multi-pole charge coil system

Horizontal Shaft

GX630



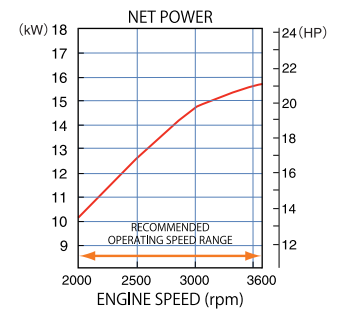
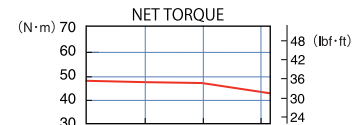
Engine Type	Air-cooled, 4-Stroke, OHV Horizontal
Bore x Stroke	3.1" x 2.8" (78 x 72 mm)
Displacement	42 cu in (688 cm ³)
Compression Ratio	9.3 : 1
Net Power*	20.8 hp (15.5 kW)
Net Torque*	35.6 lbs ft (48.3 Nm)
PTO Shaft Rotation	Counterclockwise (from PTO shaft side)
Ignition System	Digital CDI with variable ignition timing
Starting System	Shift Type
Carburetor	2-barrel, fuel cut solenoid, inner vent
Lubrication System	Full Pressure
Connecting Rod	Forged Steel
Governor System	Mechanical
Air Cleaner	Dual Element Type/Cylindrical
Exhaust Emissions	Certified for use in all 50 states
Evaporative Emissions	Low permeation hose and purge joint provided
Oil Capacity	2.1 US qt (2.0 L)
Oil Filter	Automotive Spin-On Style
Dimensions (L x W x H)	15.9" (405 mm) x 16.1" (410 mm) x 17.2" (438 mm)
Dry Weight	98 lbs (44.4 kg)



GX660

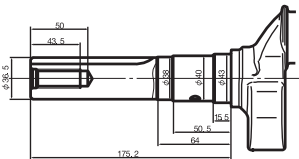


Engine Type	Air-cooled, 4-Stroke, OHV Horizontal
Bore x Stroke	3.1" x 2.8" (78 x 72 mm)
Displacement	42 cu in (688 cm ³)
Compression Ratio	9.3 : 1
Net Power*	21.5 hp (16.0 kW)
Net Torque*	35.6 lbs ft (48.3 Nm)
PTO Shaft Rotation	Counterclockwise (from PTO shaft side)
Ignition System	Digital CDI with variable ignition timing
Starting System	Shift Type
Carburetor	2-barrel, fuel cut solenoid, inner vent
Lubrication System	Full Pressure
Connecting Rod	Forged Steel
Governor System	Mechanical
Air Cleaner	Dual Element Type/Cylindrical
Exhaust Emissions	Certified for use in all 50 states
Evaporative Emissions	Low permeation hose and purge joint provided
Oil Capacity	2.0 US qt (1.9 L)
Oil Filter	Automotive Spin-On Style
Dimensions (L x W x H)	15.9" (405 mm) x 16.1" (410 mm) x 17.2" (438 mm)
Dry Weight	98 lbs (44.4 kg)

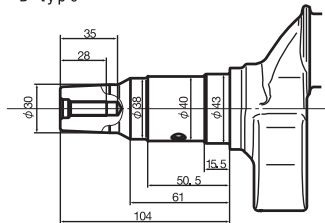


HORIZONTAL PTO SHAFT OPTIONS

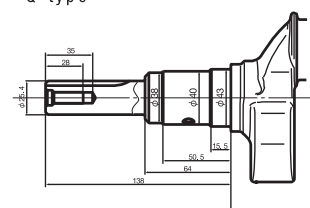
B type



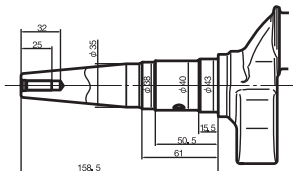
D type



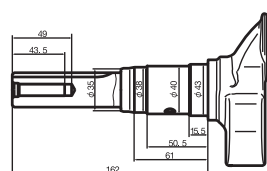
Q type



V type



T type



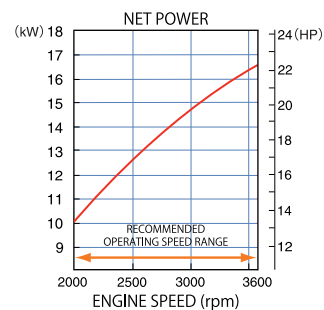
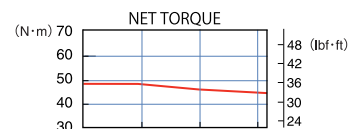
* The power rating of the engines indicated in this document measures the net power output at 3600 rpm (7000 rpm for model GXH50, GXV50, GX25 and GX35) and net torque at 2500 rpm, as tested on a production engine. Mass production engines may vary from this value. Actual power output for the engine installed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

Horizontal Shaft

GX690



Engine Type	Air-cooled, 4-Stroke, OHV Horizontal
Bore x Stroke	3.1" x 2.8" (78 x 72 mm)
Displacement	42 cu in (688 cm ³)
Compression Ratio	9.3 : 1
Net Power*	22.1 hp (16.5 kW)
Net Torque*	35.6 lbs ft (48.3 Nm)
PTO Shaft Rotation	Counterclockwise (from PTO shaft side)
Ignition System	Digital CDI with variable ignition timing
Starting System	Shift Type
Carburetor	2-barrel, fuel cut solenoid, inner vent
Lubrication System	Full Pressure
Connecting Rod	Forged Steel
Governor System	Mechanical
Air Cleaner	Dual Element Type/Cylindrical
Exhaust Emissions	Certified for use in all 50 states
Evaporative Emissions	Low permeation hose and purge joint provided
Oil Capacity	2.1 US qt (2.0 L)
Oil Filter	Automotive Spin-On Style
Dimensions (L x W x H)	15.9" (405 mm) x 16.1" (410 mm) x 17.2" (438 mm)
Dry Weight	98 lbs (44.4 kg)

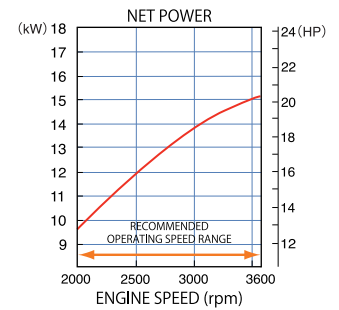
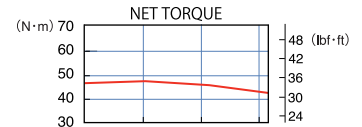


Vertical Shaft

GXV630



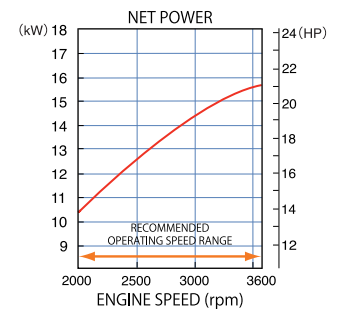
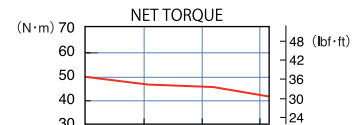
Engine Type	Air-cooled, 4-Stroke, OHV Vertical
Bore x Stroke	3.1" x 2.8" (78 x 72 mm)
Displacement	42 cu in (688.1 cm3)
Compression Ratio	9.3 : 1
Net Power*	20.8 hp (15.5 kW)
Net Torque*	35.6 lbs ft (48.3 Nm)
PTO Shaft Rotation	Counterclockwise (from PTO shaft side)
Ignition System	Digital CDI with variable ignition timing
Starting System	Shift Type
Carburetor	2-barrel, fuel cut solenoid, inner vent
Lubrication System	Full Pressure
Connecting Rod	Forged Steel
Governor System	Mechanical
Air Cleaner	Dual Element Type/Panel
Exhaust Emissions	Certified for use in all 50 states
Evaporative Emissions	Low permeation hose and purge joint provided
Oil Capacity	2.3 US qt (2.2 L)
Oil Filter	Automotive Spin-On Style
Dimensions (L x W x H)	17.4.x" (443 mm) x 16.6" (421 mm) x 17.6" (447 mm)
Dry Weight	101 lbs (45.7 kg)



GXV660

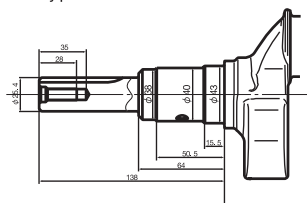


Engine Type	Air-cooled, 4-Stroke, OHV Vertical
Bore x Stroke	3.1" x 2.8" (78 x 72 mm)
Displacement	42 cu in (688 cm3)
Compression Ratio	9.3 : 1
Net Power*	21.5 hp (16.0 kW)
Net Torque*	35.6 lbs ft (48.3 Nm)
PTO Shaft Rotation	Counterclockwise (from PTO shaft side)
Ignition System	Digital CDI with variable ignition timing
Starting System	Shift Type
Carburetor	2-barrel, fuel cut solenoid, inner vent
Lubrication System	Full Pressure
Connecting Rod	Forged Steel
Governor System	Mechanical
Air Cleaner	Dual Element Type/Panel
Exhaust Emissions	Certified for use in all 50 states
Evaporative Emissions	Low permeation hose and purge joint provided
Oil Capacity	2.3 US qt (2.2 L)
Oil Filter	Automotive Spin-On Style
Dimensions (L x W x H)	17.4.x" (443 mm) x 16.6" (421 mm) x 17.6" (447 mm)
Dry Weight	101 lbs (45.7 kg)

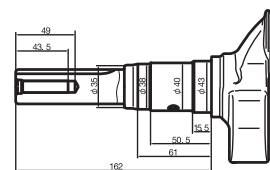


VERTICAL PTO SHAFT OPTIONS

Q type



T type



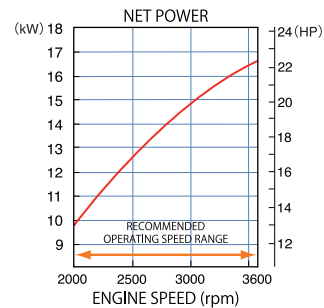
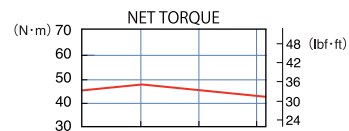
* The power rating of the engines indicated in this document measures the net power output at 3600 rpm (7000 rpm for model GXH50, GXV50, GX25 and GX35) and net torque at 2500 rpm, as tested on a production engine. Mass production engines may vary from this value. Actual power output for the engine installed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

Vertical Shaft

GXV690

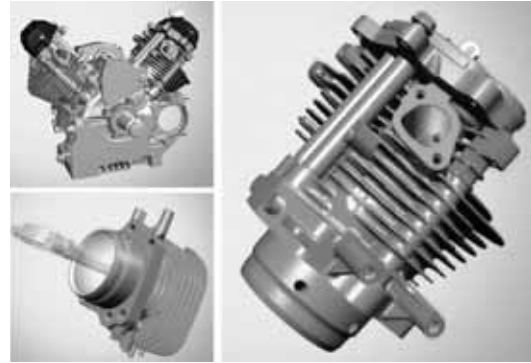


Engine Type	Air-cooled, 4-Stroke, OHV Vertical
Bore x Stroke	3.1" x 2.8" (78 x 72 mm)
Displacement	42 cu in (688.1 cm ³)
Compression Ratio	9.3 : 1
Net Power*	22.1 hp (16.5 kW)
Net Torque*	35.6 lbs ft (48.3 Nm)
PTO Shaft Rotation	Counterclockwise (from PTO shaft side)
Ignition System	Digital CDI with variable ignition timing
Starting System	Shift Type
Carburetor	2-barrel, fuel cut solenoid, inner vent
Lubrication System	Full Pressure
Connecting Rod	Forged Steel
Governor System	Mechanical
Air Cleaner	Dual Element Type/Panel
Exhaust Emissions	Certified for use in all 50 states
Evaporative Emissions	Low permeation hose and purge joint provided
Oil Capacity	2.3 US qt (2.2 L)
Oil Filter	Automotive Spin-On Style
Dimensions (L x W x H)	17.4"x (443 mm) x 16.6" (421 mm) x 17.6" (447 mm)
Dry Weight	101 lbs (45.7 kg)



An integrated cylinder & head mean better performance.

The idea of integrating the cylinder & head into one unit is radical. Radically smart. It eliminates the head gasket, head bolts and allows for more airflow and better cooling. Speaking of cooling, improved cooling means better combustion management. Cooling is also improved by each of the lightweight aluminum pushrods being housed in a separate tube to enhance airflow. When you put it all together (with fewer parts) you get an engine with reduced emissions and greater-than-ever durability. All of which is now backed with a 3-year warranty.



Integrated cylinder and head structure

Service made easy.

Our redesigned V-Twins were engineered with easy maintenance in mind. No cylinder head gasket and fewer overall parts make the engine more durable. Our Multi-Layer Density Gradient Air Filter helps to extend the period of time between service intervals. An automotive-style spin-on oil filter provides excellent filtering capacity and easy replacement. There's even an optional oil alert and digital hour meter to provide quick access to information for the owner and technician. Then, of course, there's our 3-year warranty and the proven Honda service network made up of thousands of dealers from coast-to-coast.

When you compare all the benefits, we're sure you'll agree, Honda gives you the best overall product value.

Improved Air Cleaning



High density filter media



Dual cylindrical filter



Dual panel filter

Air cleaning upgrades include new high-density multi-gradient media, a dual cylindrical filter on the horizontals and a dual panel-type filter on the verticals.

HONDA ENGINE DISTRIBUTORS

ALABAMA

R.W. DISTRIBUTORS, INC.
SEE MISSISSIPPI

ALASKA

SCOTSCO, INC.
SEE OREGON

ARIZONA

TRU-POWER, INC.
SEE SOUTHERN CALIFORNIA

ARKANSAS

R.W. DISTRIBUTORS, INC.
SEE MISSISSIPPI

CALIFORNIA

Northern California
PACE WEST, INC.
www.pacelink.com
5850 Adler Circle
Sacramento, CA 95828
(734) 453-6258
FAX (916) 383-6550
BruceT@pacelink.com

Southern California
TRU-POWER, INC.
www.trupower.com
22520-A Temescal Canyon Rd.
Corona, CA 92883
(951) 277-3180
FAX (951) 277-3190
sales@trupower.com

COLORADO

E. C. POWER SYSTEMS
www.ecpower.com
3233 Oakland Street
Aurora, CO 80010
(303) 360-7110
FAX (303) 360-7519
rickri@e-c-co.com

CONNECTICUT

TIDEWATER
SEE VIRGINIA

DELAWARE

TIDEWATER
SEE VIRGINIA

DISTRICT OF COLUMBIA

TIDEWATER
SEE VIRGINIA

FLORIDA

ROBERTS SUPPLY, INC.
www.robertssupply.com
4203 Metric Drive
Winter Park, FL 32792
(407) 657-5555
FAX (407) 657-4007
info@robertssupply.com

GEORGIA

M.T.A. DISTRIBUTORS
SEE TENNESSEE

HAWAII

SCOTSCO, INC.
SEE OREGON

IDAHO

E. C. POWER SYSTEMS
www.ecpower.com
4499 Market Street
Boise, ID 83705
(208) 342-6541
FAX (208) 345-4308
wintons@e-c-co.com

ILLINOIS

POWER EQUIPMENT CO.
www.peco1948.com
211 W Stephenie Drive
Cortland, IL 60112
(815) 754-4090
FAX (815) 754-4280
sales@peco1948.com

INDIANA

POWER EQUIPMENT CO.
SEE ILLINOIS

IOWA

IOWA POWER PRODUCTS
www.iowapower.com
522 Brooks Road
Iowa Falls, IA 50126
(641) 648-2507
FAX (641) 648-5013
iowapower@iowapower.com

KANSAS

KANSAS CITY POWER PROD.
www.kcpp.com
80 S. James Street
Kansas City, KS 66118
(913) 321-7040
FAX (913) 321-7341
info@kcpp.com

KENTUCKY

M.T.A. DISTRIBUTORS
SEE TENNESSEE

Northern Kentucky-Cincinnati area
HAYWARD DISTRIBUTING
SEE OHIO

LOUISIANA

R.W. DISTRIBUTORS, INC.
SEE MISSISSIPPI

MAINE

EASTERN EQUIPMENT, INC.
SEE NEW HAMPSHIRE

MARYLAND

TIDEWATER
SEE VIRGINIA

MASSACHUSETTS

EASTERN EQUIPMENT, INC.
SEE NEW HAMPSHIRE

MICHIGAN

PACE, INC.
www.pacelink.com
739 South Mill Street
Plymouth, MI 48170
(734) 453-6258
FAX (734) 453-5320
pace@pacelink.com

Northern Michigan

ENGINE POWER INC.
SEE WISCONSIN

MINNESOTA

GREAT NORTHERN EQUIP. DIST.
www.gnedi.com
20195 South Diamond Lake Road
Rogers, MN 55374
(763) 428-2237
FAX (763) 428-4821
chrisb@gnedi.com

MISSISSIPPI

R.W. DISTRIBUTORS, INC.
1046 Hwy 471
Brandon, MS 39042
(601) 939-0204
FAX (800) 748-9965
Mail Address
P.O. Box 1409
Brandon, MS 39043
general@rwdist.net

MISSOURI

KANSAS CITY POWER PRODUCTS
SEE KANSAS

MONTANA

E. C. POWER SYSTEMS
SEE IDAHO

NEBRASKA

Anderson Industrial Engines
www.ai-engines.com
5532 Center Street
Omaha, NE 68106
(402) 558-8700
FAX (402) 558-8249
info@ai-engines.com

NEVADA

PACE WEST INC.
SEE NORTHRN CALIFORNIA

TRU-POWER, INC.

SEE SOUTHERN CALIFORNIA

E. C. POWER SYSTEMS

SEE UTAH

NEW HAMPSHIRE

EASTERN EQUIPMENT, INC.
www.easternequipmentinc.com
6 "B" Street
Derry, NH 03038
(603) 437-0407
FAX (603) 437-0815
gmiscoeastern@aol.com

NEW JERSEY

TIDEWATER
SEE VIRGINIA

NEW MEXICO

LIGHTBOURN EQUIPMENT
SEE TEXAS (DALLAS)

NEW YORK

EASTERN EQUIPMENT, INC.
SEE NEW HAMPSHIRE

NORTH CAROLINA

TIDEWATER
SEE VIRGINIA

NORTH DAKOTA

GREAT NORTHERN EQUIPMENT
SEE MINNESOTA

OHIO

HAYWARD DISTRIBUTING
www.haydist.com
4061 Perimeter Drive
Columbus, OH 43228
(614) 272-5953
FAX (614) 272-5959
rstruthers@haydist.com

North Western Ohio

PACE INC.

SEE MICHAGAN

OKLAHOMA

SMITH DISTRIBUTING CO.
www.smithdistributingcompany.com
4110 N.W. 10th Street
Oklahoma City, OK 73107
(405) 947-6484
FAX (405) 946-1251
parts@smithdistributingcompany.com

OREGON

SCOTSCO, INC.
www.scotsco.com
16750 S.E. Kens Ct.
Milwaukie, OR 97267
(503) 653-7791
FAX (503) 653-7838
tfrandsen@scotsco.com

PENNSYLVANIA

PAUL B. MOYER & SONS, INC.
www.paulbmoyer.com
190 S. Clinton Street
Doylestown, PA 18901
(215) 348-1270
FAX (215) 348-7651
information@paulbmoyer.com

PUERTO RICO/VIRGIN ISLANDS

BELLA INTERNATIONAL
www.bellainternational.com
65 Infanteria, KM2.2
Rio Piedras, PR 00923
(787) 620-5838
FAX (787) 620-5829

RHODE ISLAND

EASTERN EQUIPMENT, INC.
SEE NEW HAMPSHIRE

SOUTH CAROLINA

TIDEWATER
SEE VIRGINIA

SOUTH DAKOTA

GREAT NORTHERN EQUIPMENT
SEE MINNESOTA

TENNESSEE

M.T.A. DISTRIBUTORS
www.mtadistributors.com
555 Hickory Hills Blvd.
Whites Creek, TN 37189-9244
(615) 299-8777
FAX (615) 299-0464
customerservice@mtadistributors.com

TEXAS

LIGHTBOURN EQUIPMENT
www.lightbourneequipment.com
13649 Beta Road
Dallas, TX 75244
(972) 233-5151
FAX (972) 661-0738
dvb@lightbourneequipment.com

LIGHTBOURN EQUIPMENT

3615 Willowbend Blvd, Suite 408
Houston, TX 77054
(713) 741-2003
FAX (713) 741-1909
swk@lightbourneequipment.com

UTAH

E. C. POWER SYSTEMS
www.ecpower.com
3738 West 2340 S. Suite E
Salt Lake City, UT 84120
(800) 886-1424 (800) 462-3370
FAX (801) 886-1464
chch@e-c-co.com

VERMONT

EASTERN EQUIPMENT, INC.
SEE NEW HAMPSHIRE

VIRGINIA

TIDEWATER POWER EQUIP. CO.
www.tpeco.com
5795 Thurston Ave
Virginia Beach, VA 23455
(757) 464-1755
FAX (800) 288-8953
info@tpeco.com

WASHINGTON

SCOTSCO, INC.
SEE OREGON

WEST VIRGINIA

HAYWARD DISTRIBUTING
SEE OHIO

TIDEWATER POWER EQUIP. CO.

SEE VIRGINIA

WISCONSIN

ENGINE POWER, INC.
www.enginepower.com
1830 Executive Drive
Oconomowoc, WI 53066-4831
(262) 567-8575
FAX (262) 567-2556
postoff@enginepower.com

WYOMING

E. C. POWER SYSTEMS
SEE COLORADO

Honda. The largest manufacturer of gasoline engines in the world.



GC SERIES



GS SERIES



GX SERIES



iGX SERIES



V-TWIN SERIES



MINI 4-STROKE SERIES

HONDA

ENGINES

Built like no other.

Visit us at engines.honda.com



For optimum performance and safety we recommend you read the owner's manual before operating your Honda Power Equipment. Specifications subject to change without notice.

All images contained herein are either owned by American Honda Motor Co., Inc., or used under a valid license. It is a violation of federal law to reproduce these images without express written permission from American Honda Motor Co., Inc., or the individual copyright owner of such images. All rights reserved. HONDA, the HONDA ENGINES logo, Honda engine model names and their trade dress are trademarks of Honda Motor Co., Ltd. used under license from American Honda Motor Co., Inc. Many Honda engine and vehicle model names, and associated trade dress may be seen at www.honda.com. ©2012 American Honda Motor Co., Inc. C0454