

# GENERATORS



## IMPROVING ENGINE TECHNOLOGIES GENERATES POWER AND GLORY ON THE JOB SITE

If you want to see a bunch of grown men looking like turtles flipped onto their backs, just kill the power on a construction job site. Arms flail, curses fly and there is a sudden urgency to get the world back to right side up. These top manufacturers provide the power to keep job sites from going belly up.

### GENERAC

Wisconsin-based Generac continues to develop rugged job site generators in a variety of power output configurations for professional contractors as well as products for the industrial and homeowner standby power markets. Its most recent pro model, the XD5000E Diesel Portable Generator, offers

reliable power and up to 32 hours of runtime on a single tank.

“Generac’s new professional-grade XD5000E Diesel-Powered Portable Generator features a 12-gallon fuel tank, single-touch electric start and durable steel cradle,” begins David Lincoln, senior product manager for Generac’s Engine Power Tools group. “This new diesel-powered portable generator offers long run time and efficient operation for professional job sites and agricultural applications.”

The sturdy steel frame features an integrated lifting eye for easy



LINCOLN

*Generac’s newest pro-grade generator is the XD5000E Diesel Portable Generator, which features a direct-injected 435cc Yanmar LW Series diesel engine.*

transport and on-site security. True Power Technology provides less than six percent total harmonic distortion for smooth operation of tools, appliances and even sensitive electronics. It’s also engineered to keep on running, thanks to a large, 12-gallon fuel tank and idle control.

The XD5000E is powered by a Yanmar LW Series 435cc air-cooled direct injection, industrial-grade diesel engine, and its 12-gallon fuel tank provides 32.4 hours of runtime at a 50-percent load. The XD5000E

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features single-touch electric start for easy start-up (battery not included) and an hour meter tracks maintenance intervals.

Durability features include a 1 1/4-inch steel cradle for added durability and strength and an integrated lifting

eye allows for easy transport and security at the job site.

“An optional portability kit includes a handle, wheels and a front foot,” Lincoln adds. “If you’ve got a tough job to do, look no further than the XD5000E professional generator.”



Honda's EB2000i inverter generator produces 2,000 watts of power and Honda's Eco-Throttle system saves fuel by delivering only the amount of power that attached equipment demands.

**HONDA**

Honda Power Equipment markets a complete line of generators — advanced power solutions for commercial and consumer applications. Lightweight, compact Honda generators produce between 1,000 and 10,000 watts of power, providing smooth, dependable power for recreation, construction, rental and home emergency use.

Today, generators are becoming smaller, lighter, more fuel efficient and quieter; many also are being designed to fit smaller, tighter spaces and are equipped with sophisticated control panels for ease of use and maintenance. Changing regulations as dictated by the National Electric Code (NEC) and the Occupational and Safety Health Administration (OSHA) with regard to generators on job sites also are important for consideration, such as Ground Fault Circuit Interrupter (GFCI) receptacles.

“With these trends in mind, the Honda Industrial Series of generators includes models specifically designed for commercial applications,” says Tom Pernice, senior marketing strategist, Honda Power Equipment. “For example, the Honda EB2000i offers inverter power with a maximum output of

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2,000 watts and the fuel-efficient Eco-Throttle – allowing the generator to conserve fuel by varying engine rpm to produce only the power required to operate the equipment, improving fuel economy.”

The EB2000i also incorporates a 120V/20A GFCI receptacle, which provides greater flexibility for most work site applications. For more power, the rugged and powerful EB10000 generator, with a maximum output of 10,000 watts, is a compact model that features a narrow-shaped design, a centralized exhaust mechanism, a specially developed alternator, and the best fuel efficiency and lowest noise in its class.

Its innovative layout includes a patented frame design that clearly delineates its hot and cool operating parts, along with a one-touch, removable plastic top cover allowing for easy battery access and maintenance.

In addition, the Honda EB10000 generator is designed with the i-Monitor digital operation system (with lighting), conveniently providing performance monitoring and self-diagnosis for the operator: total used hours, output voltage battery condition, oil alert, and a DAVR (digital auto voltage regulator) error code, all of which improve understanding of operation, service and maintenance.

“While all advances in technology are significant, matching power needs with a high quality generator output that can protect sensitive equipment, offer portability, durability and reliability is important and will give the most value — particularly important on job sites where more and more contractors rely on sophisticated equipment that must be charged and recharged,” Pernice concludes.

## SUBARU

While basic generator design has remained unchanged for many years, customers are looking to manufacturers to provide new features and designs to increase performance while using less fuel and generating fewer emissions. They’re also putting more

focus on the future, choosing products that will provide a strong return on a customer’s investment. Contractors want quality, technologically-advanced components with a strong warranty and post-purchase support because they know that will give them the lowest total cost of ownership.

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The 9.5-hp Subaru SGX5000 features a an eight-gallon fuel tank, 100-percent copper windings, no-flat tires, a spark-arrest muffler and a Subaru EX overhead cam engine to deliver 4,900 watts of power.

“Subaru prides itself on offering the best value for our customers so they can be confident their investment makes sense, not only today, but for years to come,” states Dylan Rewoldt, sales and marketing for Subaru Industrial Power Products. “Our commitment to offering advanced solutions is evident in our recently upgraded SGX generator line, which comes packed with high-quality components designed to reduce the total cost of ownership.”



An upgraded hour meter and low-oil-level sensor with automatic shutoff enhances efficiency and protects the engine from damage. Washable air filters are designed for the life of the engine, which can save as much as \$144.

“We have always led the industry with our technology, which really starts with the heart of the generator — the engine,” Rewoldt continues. “The industry’s first air-cooled overhead cam engine powers our SGX generators. The EX Series engines are the first to use high-performance, chain-driven overhead cam technology in the industrial air-cooled market.”

The design features a highly efficient pent-roof-type combustion chamber to produce higher power and more torque while limiting exhaust emissions and fuel

consumption. Additionally, Subaru stands behind its technology with the first three-year warranty and an industry-leading five-year warranty on the engine.

“We can only do that because we’re confident in the quality of our products. We’ve seen the proof of that, with warranty claims on only 1/10 of one percent of products sold.”

### ATLAS COPCO

Engines drive generators, but in the construction industry, regulations drive engines. Isuzu 4LE and 4LE2X engines with Diesel Oxidation Catalysts (DOCs) enable the Atlas Copco QAS 25 and QAS 45 portable generators to achieve Tier 4 Final emission levels. These units are designed for reliable power for construction, oil and gas, rental and large events.

“The QAS 25’s overall durability, as well as the quality and dependability of its interior components, give it one of the highest resale values in the industry,” says Jim Siffing, product manager, Generators. “For example, the QAS 25 is mounted on a durable frame and surrounded by a robust enclosure formed from galvanized steel and powder-coated for a long-lasting, scratch- and corrosion-resistant surface.”

Both models are equipped with dependable Leroy-Somer AREP alternators for superior motor-starting

capabilities. Deep Sea 4510 controls are comfortable, reliable and easy to use.

The QAS 25 comes standard with two-wire remote start capability and features a 72-gallon fuel tank for a 45-hour run time, nearly twice the run time of some competitive models.

Atlas Copco designed the QAS 25 for fast and easy maintenance with large doors and all maintenance points on one side of the machine. The DOC after-treatment device requires no regeneration or maintenance. The engine meets Tier 4 Final emissions without the need for diesel exhaust fluid or a diesel particulate filter system.

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The QAS 45 has a 72.5-gallon tank that allows for roughly 30 hours of runtime under typical loads.

A backlit display on the QAS 45 shows all critical machine information, which can be viewed through a rugged, clear viewing panel in the door. The generator controller features remote start capability and all functions are set with warning and shutdown safety limits that can be easily customized by the user. **CS**



The Atlas Copco QAS 45 is equipped with an Isuzu 4LE engine and a diesel oxidation catalyst (DOC) to achieve Tier 4 Final emission levels without the need for diesel exhaust fluid or a diesel particulate filter system.

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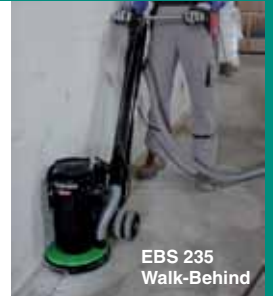
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