



# GAS ENGINE EQUIPMENT

## JOB SITES ARE TOUGH; THESE GAS-POWERED MACHINES ARE UP TO THE TASK

Although cordless power is making inroads, nothing beats gas-powered machines for power, runtime and portability for the really tough jobs. But weight, reliability, noise and emissions have always been concerns. The latest generation of gas engine powered equipment combines lower emissions, enhanced durability, longer runtimes and more operator convenience features than ever before. These six leading manufacturers have the category humming.

### GENERAC

"Construction sites are hard on generators," begins Jake Thomas, director of product management for Generac Power Systems. "The generators run longer. They get knocked around more, so they need to be tough. What's more, they need to

be moved easily around the job site — both by hand and with material handling equipment. We challenged our engineers to create a portable generator tough enough to meet the demands of the hardest working pros in America."

The result is Generac's new XC Professional Series 6,500- and 8,000-watt portable generators, which the company will unveil at The Rental Show in Orlando, Florida, Feb. 26 – March 1, 2017.

At the heart of the XC Professional Series is Generac's new 426cc G-Force engine. This engine utilizes full pressure lubrication, reducing engine component wear for longer life. Optimized specifically for generator applications, the G-Force engine features a full-response air intake and targeted heat dispersal design,

Built expressly for brutal job site environments, the new Generac model XC8000E generator has a fully wrapped, 12-gauge steel tube X Frame that protects the engine, alternator and fuel tank.



ensuring effective operation and cooling on construction sites.

The XC Professional Series models feature a heavy-duty, fully wrapped, 12-gauge steel tube X Frame that protects the engine, alternator and fuel tank from damage on unforgiving job sites.

Instead of a lifting eye, the XC Professional Series units offer a steel lifting pocket that is designed to fit most forklift and telehandler blades. The steel lifting pocket makes it easier to lift and transport the generator on a construction site.

"Our research with construction workers told us that making the generator easy for a telehandler to lift would be a real benefit on the job site," Thomas says.

The impact-resistant fuel tank design features recessed tank edges

and a dedicated rocker zone that allows the generator to sway as it is transported by a forklift or telehandler without damaging the unit.

### ATLAS COPCO

Atlas Copco achieves a new level of reliability and operator convenience with its PROi gas breaker, the industry's first with electronic fuel injection (EFI). The Cobra PROi provides as much as 10 percent more power than its predecessor, the PROe, at all working speeds, while optimal combustion reduces fuel consumption by as much as 10 percent. And, thanks to its EFI, operators can start the breaker in almost any climate or at any altitude.

"An integrated mechanical fuel pump employs a unique system that maintains constant pressure to the regulator without electricity," explains Gus Armbruster, product manager, Handheld Construction Tools. "Atlas Copco also designed the PROi with a custom electronic fuel injection system that uses just three psi, 40 psi less than standard EFI systems. This approach minimizes pressure variations and voids in the fuel, ensuring smooth running."

Hand-arm vibration on three axes is below 4 m/s<sup>2</sup> to minimize operator fatigue. This light, compact machine weighs just 53 pounds, so users can easily move it and transport it in a car's trunk.

"While the PROi may be easy to handle, the unit packs a punch," Armbruster adds. "Its two-stroke, 90cc engine delivers as much as 44 foot-pounds — the equivalent to 793 pounds hitting the chisel every second — of breaking force due to the unique arrangement of the gearbox percussion system."

Also, the kill switch is now a button on the right handle on the PROi, which enhances ergonomics.



The Cobra PROi gas-powered breaker from Atlas Copco is the industry's first with electronic fuel injection for the utmost in starting and operating reliability in any climate or at any altitude.

Because the breaker has fuel injection, there is no need to choke the breaker during startup. This ensures dependable startup performance in cold and hot climates. And, since the Cobra PROi stays in tune, maintenance is minimal.

### HONDA

Last October, Honda Power Equipment introduced an all-new open frame inverter (OFI) generator, the model EB2800i for light construction applications. It delivers more of what Honda generator customers expect: quiet operation, high-quality power, fuel efficiency and long run times in a lightweight, portable package.

"Market demand for portable generators of less than 4,000 watts is growing, and Honda Power Equipment is meeting this demand by expanding its portfolio of quiet, portable power, with a new open-frame inverter model," says Michael Rudolph, vice president — Honda Power Equipment. "The EB2800i generator is the lightest-weight open-frame generator in its class and incorporates Honda's

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The Honda model EB2800i open-frame inverter generator weighs just 67 pounds and delivers up to 2,800 watts of power. It will run for 5.1 hours at full load or 12.1 hours at 1/4 load.

leading inverter technology and innovative features at an affordable price for industrial users.”



**RUDOLPH** At an industry-leading dry weight of less than 67 pounds, the EB2800i is light enough for one person to load and unload from a truck, operate, and carry around the job site, all while providing ample power for small compressors, air circulation fans, large concrete drills, electric concrete vibrators, circular saws and battery chargers up to 2,800 watts. The Honda EB2800i complies with current OSHA and LA-ETL regulations while ensuring safe operation with GFCI protected receptacles.

The Honda EB2800i offers a maximum 2,800 watts of electricity with a wave form distortion factor of less than five percent for a wide range of applications. Ease of use also is key for any portable generator, and this all-new open-frame inverter model includes easy-start control panel instructions.

The Honda EB2800i generator is equipped with rugged, full-frame protection. Its Eco Throttle conserves fuel by varying engine speed to the optimum level depending on load and a 2.1-gallon gas tank provides 5.1 hours of operation at rated load or 12.1 hours at one-quarter load.

**MI-T-M**

Many trends are affecting gas engine driven equipment in the marketplace. New regulations,

emissions standards and technologies all influence Mi-T-M new product design and innovations.

“The demand for low-cost but quality equipment that is lighter and quieter has influenced the design of the Mi-T-M Work Pro Series air compressors,” observes Matt Hoefler, equipment division manager. “These compressors feature aluminum components that not only dissipate heat, but help to decrease weight.”

The Work Pro Series comes with a choice of either a Honda OHV or Mi-T-M OHV engine. The Mi-T-M engines have a design life to fit the unit application and are a cost effective option. Mi-T-M uses these engine savings to develop attractive pricing for end-users while maintaining the high quality Mi-T-M equipment is known for. Mi-T-M also gives customers convenient replacement parts purchasing and support.



**HOEFER**



Mi-T-M's recently introduced gas-powered Work Pro 8-gallon air compressors deliver 7.1 cfm at 90 psi. They are offered with a choice of Honda or Mi-T-M OHV engines.

Mi-T-M Work Pro Series air compressors are designed specifically for professional contractors and serious DIYers. Their easy-to-use components and wheelbarrow design make them extremely portable. Powder-coated tank receivers sit on base plates designed to reduce vibration and both the single- and two-stage models can power everything from impact wrenches to drills and nail guns.

Two new Work Pro Series air compressors were recently added to the Mi-T-M line-up. These 8-gallon units deliver 7.1 cfm of compressed air at 90 psi and are perfect for small jobs around the house and big jobs around the shop.

“Mi-T-M's gas-powered equipment provides more power than battery-powered equipment, creating high demand in the construction industry,” Hoefler says. “However, regulatory mandates for lower emissions have continued to be a concern in about every industry, therefore many engine suppliers are exploring battery power as an option. The latest models of lawn mowers and tools are battery powered; even electric-hybrid construction machines are starting to make an appearance.

“The question is, will battery power be able to reach the performance

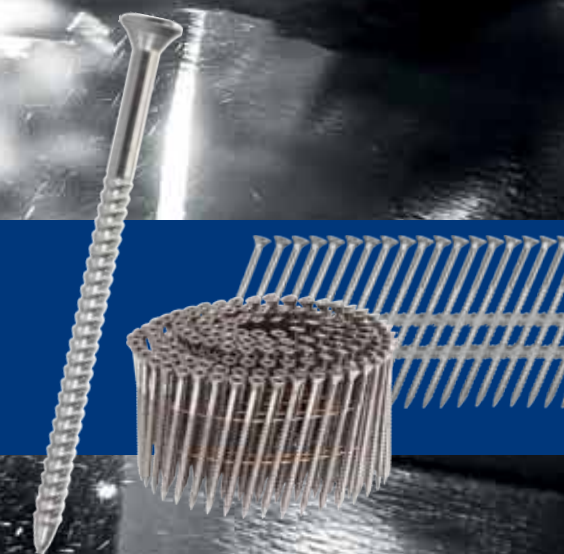
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Yamaha's best-selling model EF7200DE generator delivers 7,200 watts of power in an easily portable unit that has electric start and offers eight hours of run time at full load.

Advance Direction Air Flow to provide cleaner air to the engine for improved engine durability.

7,200 watts of total output and can run up to eight hours at full load saving hundreds of dollars in fuel costs compared to competitive models."

"The conversation is no longer about slightly more power or a little less weight; it is now about how much this new job site solution can save in run costs, repair and maintenance expenses and productivity," Fernandez states. "The future of power cutters is now, and the EK7651H is in a class by itself."

**YAMAHA**

Yamaha is known worldwide for having an extensive line of the most durable and reliable power products and multipurpose engines. With more than a dozen generators and inverters, from the compact and lightweight EF1000iS to the commercial-grade EF12000DE, Yamaha provides plenty of power for small to big jobs.

"When you look at customer trends in commercial power products, you can see three areas where Yamaha focuses a lot of attention: durability, efficiency and convenience," says Derek Schoeberle, business planning manager. "On construction sites, durability and reliability are critical, and Yamaha's long-standing reputation in these areas – plus a three-year limited factory warranty on commercial use for all of Yamaha's generator models – delivers maximum confidence.

"Efficiency is also important on industrial jobs. Looking at one of our popular commercial generators, the EF7200DE (MSRP \$1,699) delivers

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delivered by internal-combustion engines? It could be just around the corner."

**MAKITA**

"Engine seizure due to improper fuel and oil mixing is one of the most common failures of two-stroke commercial power cutters," says David Fernandez, product manager, Commercial Products. "Makita has changed the game and delivered the solution with the development of the world's first four-stroke power cutter. This latest innovation from Makita goes beyond exceptional tool performance, as users will now need only one gas can for all their power equipment."



Makita applied years of research into the development of the 14-inch EK7651H power cutter to solve the most common user pains including fuel mixing, startups, fuel economy, ease-of-use during long cuts and more.

"This new four-stroke power cutter runs quieter, idles smoother and is more fuel efficient," Fernandez says. "It also has several other innovative features including automatic decompression which reduces pull-starting force by up to 40 percent, and an all-aluminum integrated wheel kit that retracts when not in use."

The EK7651H has a 4.6-ci (75.6 cc) engine with 4.1-hp (maximum horsepower) and a no load speed of 9,350 rpm to take on the most demanding applications.

In addition, the pressure-compensating carburetor with vented choke plate is engineered to reduce flooding by automatically adjusting to deliver the proper amount of fuel. For easier use and maintenance, the EK7651H has a five-stage foam-paper-nylon filtration system with



Makita's 14-inch model EK7651H is the world's first power cutter with a four-cycle engine that eliminates the need to mix gas and oil. It also boasts easy starts, lower noise and better fuel economy.

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