



Waukesha

POWERING PERFORMANCE

DRIVING A MORE POWERFUL WORLD

Technology, quality and value to meet
global energy needs today and tomorrow.

DRESSER

Waukesha

Committed to **EMPOWERING TH**

VGF® ENGINE FAMILY: 160 – 1175 BHP (119 – 880 kWb)

Compact, high-speed engines designed to provide high levels of power, but with minimum space requirements.



Waukesha® Engine manufactures spark-ignited, gaseous-fueled reciprocating engines widely used in field gas compression, power generation and a variety of mechanical drive applications. We also package engine-driven generator sets and control panels for the distributed generation market.

As the worldwide appetite for energy continues to grow, Waukesha Engine's 100-year-old tradition of advancing state-of-the-art gas engine technology ideally positions us to be a global partner meeting increased demand in both the gas compression and power generation markets.

During our first century, Waukesha Engine earned a reputation for providing engines built smarter to deliver reliability and durability. As we enter our next century of service, Waukesha Engine's tenacious dedication to product excellence will help meet the world's expanding energy needs – region by region. Innovative solutions for each unique challenge. **It's The Waukesha Way.**

POWERED BY INNOVATION.

Innovation seldom happens by accident – it has to be an integral part of a company's mindset. The importance we place on innovation is apparent in our advanced platforms for future technology ... in our advanced control systems ... and in our relentless effort to develop technologies that reduce emissions, improve fuel efficiency and enhance product value.

FAST FORWARD – A STEP AHEAD.

Our customers speak and we listen. Around the globe, We are planning now to meet the long term product needs of our Initiatives already underway to enhance our service commitment

Accelerated product development efforts focused on new technology in essential power ranges required to meet changing energy needs and conditions of the global landscape.

Creation of a **multi-year operational improvement initiative** designed to increase factory output, achieve production efficiencies and continue our focus on building quality products that last.

THE WORLD'S FUTURE

BUILDING ON OUR STRENGTHS: GAS COMPRESSION, POWER GENERATION AND MECHANICAL DRIVE SYSTEMS.

Long a leader in meeting the demands of the gas compression industry, Waukesha engines continue to be depended upon throughout the world to gather, process, transport and store today's vital natural gas supplies.

The increasing importance of power generation has allowed Waukesha to leverage its vast experience to provide solutions in a wide variety of applications. As a result, Waukesha builds cost and fuel efficient generator packages suited to power facilities for any region on Earth. Plus, they're environmentally friendly.



From powering water systems to driving compressors, car shredders, chillers and more, Waukesha applies its know-how to the indispensable mechanical drive needs that affect our everyday lives.

POWERING PERFORMANCE



Waukesha is dedicated to meeting customer challenges head on. Our customers. They can count on us – now and in the future. Our strengths include:

Waukesha is **committed to growing on-site training and development** programs worldwide to strengthen distributor knowledge and increase the number of skilled technicians.

Expanding and strengthening our global distribution network will enable us to provide faster delivery of parts and service by qualified technicians to meet increasing customer demand.



Trusted Partner to the **POWER**



POWER REVOLUTION

Today's need to generate power continuously – cost efficiently and with environmental sensitivity – demands new ideas, new options. Natural gas-burning engines produce fewer harmful emissions – an increasingly important consideration worldwide as more project funding and research is being tied to cleaner technologies.

Waukesha's new APG™ Series is a world-class commitment to the global power generation industry that demands high-efficiency, low-emissions output and a reduction in operating costs. The APG Series of engines and gensets moves our product lineup to a higher level of advanced lean burn combustion with a new high-energy ignition system, fast burn rate and a new high-efficiency turbocharger.



At a privately owned power plant in Kashi, China, six Waukesha 12VATGL gensets supply heat and electricity to residential and business customers.

CONTINUOUS POWER

Waukesha's reliable, durable engines are perfect for situations requiring a 24/7 flow of power, including "critical mission" service facilities such as hospitals, emergency governmental units and water pumping systems. Waukesha engines can be your own on-site energy source, and reduce your kW per hour costs all year long.



GENUINE PARTS ENSURE MAXIMUM PERFORMANCE

Waukesha engines are made to exacting standards, the parts needed to maintain maximum uptime should be to the same high standards. Our commitment to quality parts ensures maximum performance of any performance technology of today can be applied to older engine models. The result – enhanced performance and increased production needs.

Waukesha's success hinges on our customer's satisfaction anywhere in the world. All parts, whether new or remanufactured, carry the industry leading parts warranty. Our distributors are on call 24 hours a day, with the parts and service personnel to provide quick responsive solutions to customers' needs.

DRIVEN

GENERATION INDUSTRY

ADVANCED POWER GENERATION (APG™) SERIES ENGINES

The APG Series is the cornerstone of the essential 1 to 3 megawatt power range needed in prime power applications. Designed for efficiency, the APG Series offers brake thermal efficiency up to 43.9 percent. Standard on all APG models, the Engine System Manager (ESM®) control and diagnostics system ensures maximum performance and uptime around the clock, 24 hours a day, 7 days a week. The APG Series is the solution to meet today's – and tomorrow's – global power demand.

COGENERATION

Squeezing the maximum value out of every energy dollar is a priority today. One very smart method is through Combined Heat and Power (CHP) installations. Waukesha's APG Series is ideal for CHP applications. State-of-the-art technology used to develop the APG Series allows for two-stage intercooling to maximize total heat recovery and lower overall energy cost.

ADVANCED POWER GENERATION (APG) SERIES ENGINES

Delivers high-speed performance with low emissions in an engine less expensive to operate. Patented ESM control system standard. A world-class commitment to the power generation industry.

PEAK SHAVING

Waukesha Enginator® packages serve as a load management tool for providing on-site power needs during peak operating hours. By avoiding costly utility provider surcharges, you reduce energy costs.



Three VHP7100 Enginators® and an APG1000 Enginator unit are powering the Northwest Community Hospital in Arlington Heights, Illinois.

DESIGNING ALTERNATE FUEL OPTIONS

Waukesha has the expertise to help you reduce costs by producing energy from alternate fuels.

Sewage plants are a great example of putting know-how to work. Around the world, these plants have utilized their own fuel supply – digester gas to power internal combustion engines.

Our goal: Finding the options that are right for you. Natural gas, HD-5 propane, or methane gas. Landfill, biomass, or digester gas.



BY QUALITY, DURABILITY, RELIABILITY AND INNOVATION

Trusted Partner to the **GAS CO**



EXPERTISE, RELIABILITY AND VALUE. NATURALLY.

With our hard-earned reputation for providing high-quality products to the natural gas compression industry, Waukesha Engine is a leader in helping companies bring critical natural gas supplies to market.

DURABILITY IN HARSH ENVIRONMENTS.

From hot, equatorial plains to frigid, near-Arctic conditions. Waukesha products are built to withstand the elements and have the track record to prove it.



MINIMIZE DOWNTIME. OPTIMIZE PERFORMANCE. REDUCE OPERATING COSTS.

Waukesha engines are an integral part of the processing, gathering, storing, pumping and overall transmission of critical natural gas and oil resources. High-performance, low maintenance engines from Waukesha provide proven reliability necessary to meet increasing production demands around the globe. You can count on Waukesha to deliver engines with consistent performance, long-term durability and longer maintenance intervals generating a positive impact on your bottom line.



A world of **MECHANICAL**

VERSATILITY. EFFICIENCY. REMARKABLE VALUE.

Hospitals. Food and beverage processing plants. Oil fields. Factories. Municipal buildings. Waukesha is at work, generating electricity, driving air compressors and cooling systems, and powering blowers and water pumps.

Waukesha engines are integrated into the most critical applications in an endless variety of industries. For their reliability in the widest temperature extremes. For their recognized quality and performance. For durability that meets today's constant uptime requirements. For their value and affordability.

IMPRESSION INDUSTRY

ESM® DELIVERS TOTAL CONTROL.



Continuous diagnostic monitoring is vital to keeping your equipment functioning with increased efficiency, better load response and lower day-to-day operating costs.

ESM integrates air-fuel ratio, spark timing control, speed governing, industry

leading individual cylinder knock detection, start-stop logic, diagnostic tools and fault logging. The patented ESM system also manages speed and load control and provides E-Help solution management software to pinpoint system alerts.

The Result. Maximum Uptime. Complete Engine Protection.

A COMMITMENT TO GAS COMPRESSION.

Waukesha is committed to bringing versatility to each and every application by offering a broad spectrum of reliable engines and gensets to the industry. Whether gas compression needs start in high altitudes or are focused on field gathering, Waukesha prides itself in consistently delivering years of dependable operation with every product. Our reputation is staked on it.



At the rugged, remote Kotaneelee gas production site in the Yukon Territory, two Waukesha VHP F2895 engines drive the generators that power the site and a Waukesha VHP L7044 drives an Ariel compressor to boost gas pressure.

EFFICIENT MAINTENANCE ASSURED.

Waukesha offers engines designed to simplify maintenance procedures from easy access to the oil pump or main and rod bearings, to never having to lower an oil pan. Plus, many engine models offer the benefit of parts commonality, reducing inventory requirements.

VHP® ENGINE FAMILY:
The VHP engine line offers models ranging from 366 – 2560 BHP (273 – 1909 kWb).



DRIVE expertise

BLOWERS

Waukesha engines power blowers in a variety of industrial applications including aiding in aeration of basins and the generation of heat to warm digesters at metropolitan waste water treatment plants.

AIR COMPRESSORS

Waukesha engines offer consistent performance and cost-efficient operation in powering compressors that provide process air in factories and other applications.

CHILLERS

Waukesha engines power chillers used for cooling and air conditioning systems in factories, hospitals, colleges and other structures.

PUMPS

Municipalities worldwide depend on Waukesha engines to power city water systems and pump water to essential reservoirs. Oil companies rely on banks of Waukesha engine-driven pumps to help deliver oil for processing from tankers moored off shore.



Waukesha Engine. The name synonymous with powering performance. Ingenious designs. Endurance tested.

For over a century, Waukesha engines have been built smarter to deliver maximum efficiency and longevity – even in the harshest environments. From remote oil fields in Kazakhstan to critical power generation applications in Chicago, Waukesha spark-ignited, gaseous-fueled reciprocating engines are powering the way energy moves.

Waukesha engines are responsible for developing remote oil and gas resources, supplying bountiful water to communities, and lighting night skies.

Everyday, Waukesha engines are reshaping the quality of life around the world.



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