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VANGUARDTM
COMMERCIAL POWER
BRIGGS & STRATTON

POWER GUIDE

POWERING A WORKING WORLD - COMMERCIAL GRADE ENGINES

GETTING THE JOB DONE INTRODUCTION

OUR COMMERCIAL-GRADE VANGUARD™ ENGINES ARE UP TO THE CHALLENGE

Across the range our premium-grade commercial engines share the same pedigree.

Each and every Vanguard™ engine is built to precise global manufacturing standards to ensure the highest levels of quality, performance and overall durability. Vanguard engines are engineered to power the most demanding commercial applications in the toughest environments.

This Power Guide is designed to give you an overview of all the engines included in our broad commercial line up. To help you determine which engine meets your specific needs our team of Briggs & Stratton Commercial Power representatives are on hand to advise you every step of the way, you can also see the full line up online at

www.vanguardengines.co.uk

MARKET-PROVEN AROUND THE GLOBE

People across the globe rely on Vanguard engines to get the job done. Powering a broad range of applications in multiple market categories, manufacturers, distributors, dealers and their customers depend on our Vanguard engines to take on any commercial challenge.



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VANGUARD™

Vanguard provides one of the broadest power ranges of commercial grade engines for the following industries:

- | | | |
|----------------------|----------------------|----------|
| » CONSTRUCTION | » AGRICULTURE | » MARINE |
| » RENTAL | » TELECOMMUNICATIONS | » GOLF |
| » LANDSCAPE/FORESTRY | » COMMERCIAL TURF | » RACING |
| » FIRE/RESCUE | | |



VANGUARD™ SINGLE CYLINDER ENGINES 5.5 - 13.0 GROSS HP*

FEATURES AND BENEFITS

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VANGUARD™

These single cylinder engines are the result of listening to leading equipment manufacturers, contractors and owners of rental stores, who talked about operating power equipment under the most challenging conditions. Take a closer look. Every design innovation and integrated technology is customer-driven, because out there where the work gets done, proven engine performance means business.

Typical applications include:

Construction, concrete equipment, agriculture, generators, blowers, tillers, pumps, pressure washers.

An exclusive to the 5.5 - 10.0HP Vanguard™ engines is the innovative TransportGuard™ system, which requires a simple flip of a switch to turn off the ignition and fuel supply. This prevents fuel flowing into the engine crankcase and diluting the oil during transportation, reducing your customers equipment down time and operating costs, ensuring the equipment arrives on site... Ready to work, again and again!



FEATURES

Over Head Valve (OHV) Design

BENEFITS

Runs cooler and cleaner, delivering more power, longer engine life and improved fuel economy

TransportGuard™

System Simultaneous fuel/ignition shut-off protects the engine from oil/fuel dilution during transport. Available on 5.5 - 10.0HP

Commercial-Style Carburetor

Additional fuel passages ensure reliable starting and smooth running operation at a wide range of loads

Dura-Bore™ Cast Iron Cylinder Sleeve

Withstands wear and abuse, while providing improved oil control

Large, Efficient Sediment Filter

Sediment is collected in a large, clear bowl and is drained using a convenient tool-free valve

Full Skirt Metal Rewind

Optimized openings for maximum air flow

Direct Mount Fuel Tank

Reduces emissions and is mounted directly to the engine block to enhance durability

Acoustically Designed Muffler System

Improved tonal quality and lowered noise levels allow operator to work at safe levels for longer time

Engine Warranty

3-year commercial engine warranty for all applications**

LUBRICATION

Splash Lubrication System

Delivers superior lubrication to the engine to ensure long life and reliability

Racing Designed Connecting Rod

Efficiently improves oil flow throughout the engine; assures maximum protection of internal components

Oil Drain

Convenient drain locations for trouble-free maintenance

MECHANICAL

High Capacity Commercial Air Cleaner

Ensures the engine is protected against air-born debris at all times in the most demanding conditions

Magnetron® Electronic Ignition

Quick, dependable starts with no maintenance required

Larger Ignition Coil

Assures fast, easy starts

Racing Head Gasket

Increases stability and torque

Forged Crankshaft

Incorporates heat-treated ball bearings to minimize friction and heat build-up

Heavy-Duty Ball Bearing

Easily replaceable, extended service life

Dual-Clean™ Air Cleaner

Pleated paper filter with foam pre-cleaner ensures maximum protection for extended engine life

* All power levels are stated gross HP at 3,600 RPM per SAE J1940 as rated by Briggs & Stratton.

** See www.vanguardengines.com/service-support/warranty for warranty details.

VANGUARD™ HORIZONTAL V-TWIN ENGINES 14.0 - 23.0 GROSS HP*

FEATURES AND BENEFITS

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VANGUARD™

The compact Vanguard™ V-Twin engine range is application engineered to power the most demanding commercial applications in the most challenging environments. Featuring a number of advanced technologies and integrated components to deliver more usable power in a smaller space.

Typical applications include:

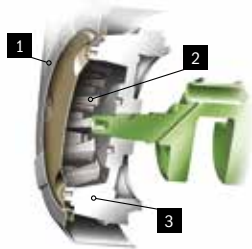
Concrete Saws, Trowels, Power Packs, Telecommunications and Generators.

Cooler / Cleaner Technology

Featuring the advanced cooler cleaner engine technology. The commercial grade V-Twin engines operate with lower temperatures and improved air flow management.

Combines improved debris management together with better airflow for increased engine cooling, ensuring less maintenance and equipment down time.

The laminated poly-core blower housing further reduces engine noise by absorbing internal mechanical noise.



1. Perforated steel rotating screen
2. Large phase modulated fan
3. Deeper laminated poly-core blower housing



FEATURES

V-Twin OHV Technology

BENEFITS

Offers lower vibration, reduced emissions, longer valve life, better fuel economy and more power per cc

Cooler Cleaner Technology

Efficiently reduces engine and oil temperatures, while effectively managing airflow

Dura-Bore™ Cast Iron Cylinder Sleeve

Assures long engine life and improved oil control

Compact Envelope

Small engine size offers use in a variety of applications

Engine Warranty

3-year commercial engine warranty**

LUBRICATION

Full Pressure Lubrication with Spin-On Oil Filter

Cleans oil and protects engine components to ensure max. lubrication and long life

Centrally Located Oil Pump and Pickup

Faster priming and allows for a higher angle of operation

Oil Cooler

Reduces oil temperature for improved lubrication and engine life

MECHANICAL

High Efficiency Head Design

Angled ports optimize tumble and mixture preparation for improved efficiency, smoother idle, lower emissions and more power

Lightweight Piston and Ring Package

Lowers noise, vibration, oil consumption, emissions and wear

Dynamically Balanced Crankshaft

Minimizes engine noise and vibration

Low Profile Dual-Clean™ Air Cleaner

Industrial pleated paper with foam pre-cleaner for extended engine life

Mechanical Compression Release

Smooth, easy starting

Magnetron® Electronic Ignition

Quick, dependable starts with no maintenance required

SOUND

Poly-Core Blower Housing, Phase Modulated Flywheel Fan and Lo-Tone™ Muffler

BENEFITS

Lowers noise level and improves sound quality



* All power levels are stated gross HP at 3,600 RPM per SAE J1940 as rated by Briggs & Stratton.
 ** See www.vanguardengines.com/service-support/warranty for warranty details.

VANGUARD™ HORIZONTAL SHAFT V-TWIN ENGINES 25.0 - 37.0 GROSS HP*

FEATURES AND BENEFITS

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VANGUARD™

Vanguard™ is the innovator and proven leader for large block V-Twin engine power, performance and reliability. For the most challenging applications - where downtime is not an option - this large block V-Twin engine line up has been expertly engineered to deliver the dependability hardworking people need to get a lot more done throughout the day.

Typical applications include:

Concrete Trowels, Generators, Chippers and Shredders

EFI is available on 33.0, 35.0 & 37.0 HP engines.



VANGUARD™ EFI
ELECTRONIC FUEL INJECTION

**UP TO 25%
 FUEL SAVINGS†**



SPEED SENSING

Directs the right amount of fuel precisely when it's needed.

EXHAUST SENSING

For more accurate fuel delivery and maximum efficiency.

FUEL DELIVERY

Pressurises the fuel before it reaches the injectors.

FEATURES

V-Twin OHV Technology

BENEFITS

Offers lower vibration, reduced emissions, longer valve life, better fuel economy and more power per cc

Advanced Debris Management

Keeps engine clean and cool for enhanced durability and performance

Electronic Fuel Injection (EFI) on selected models

Optimized fuel injection and spark timing for added power and fuel economy

Dura-Bore™ Cast Iron Cylinder Sleeve

Withstands wear and abuse

Engine Warranty

3-year commercial engine warranty**

LUBRICATION

BENEFITS

Full Pressure Lubrication with Spin-On Oil Filter

Cleans oil and protects engine components to ensure max. lubrication and long life

Centrally Located Oil Pump and Pickup

Faster priming and allows for a higher angle of operation

Oil Cooler

Reduces oil temperature for improved lubrication and engine life

MECHANICAL

BENEFITS

Heavy-Duty Cylinder and Sump

Engine block designed to provide superior durability

High Efficiency Head Design

Angled ports for optimal combustion efficiency, smoother idle, lower emissions and increased power

Lightweight Piston and Ring Package

Lowers noise, vibration, oil consumption, emissions and wear

Dynamically Balanced Crankshaft

Minimizes engine noise and vibration

5" Cyclonic Air Cleaner

Provides maximum engine protection, especially under dirty and dusty conditions

Magnetron® Electronic Ignition

Quick, dependable starts with no maintenance required

SOUND

BENEFITS

Engineered Resin Blower Housing, Phase Modulated Flywheel Fan and Large Volume Super Lo-Tone™ Muffler

Lowers noise level and improves sound quality

EFI MODELS ONLY

BENEFITS

Oxygen Sensor - Closed-Loop System

Enables up to 25% fuel savings†

High Pressure Fuel Pump Module

Alcohol & stale fuel resistance

Electronic Control Module (ECU)

Allows for altitude compensation, optimized starting and increased power

Service Solution

Suite of support and diagnostic tools allow for minimizing potential downtime

* All power levels are stated gross HP at 3,600 RPM per SAE J1940 as rated by Briggs & Stratton.

** See www.vanguardengines.com/service-support/warranty for warranty details.

† Fuel savings may vary based on operating conditions.

VANGUARD™ HORIZONTAL & VERTICAL SHAFT ENGINES

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VANGUARD™

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VANGUARD™ VERTICAL SHAFT V-TWIN ENGINES 16.0 - 23.0 GROSS HP*

FEATURES AND BENEFITS

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VANGUARD™

The compact Vanguard™ V-Twin engine range is application engineered to power the most demanding commercial applications in the most challenging environments. Featuring a number of advanced technologies and integrated components to deliver more usable power in a smaller space.

Typical applications include:

Commercial Turf Mowers, Zero-Turn, Golf Equipment

Cooler / Cleaner Technology

Featuring the advanced cooler cleaner engine technology. The commercial grade V-Twin engines operate with lower temperatures and improved air flow management.

Combines improved debris management together with better airflow for increased engine cooling, ensuring less maintenance and equipment down time.

The laminated poly-core blower housing further reduces engine noise by absorbing internal mechanical noise.



1. Perforated steel rotating screen
2. Large phase modulated fan
3. Deeper laminated poly-core blower housing

FEATURES

V-Twin OHV Technology

BENEFITS

Offers lower vibration, reduced emissions, longer valve life, better fuel economy and more power per cc

Cooler Cleaner Technology

Efficiently reduces engine and oil temperatures, while effectively managing airflow

Dura-Bore™ Cast Iron Cylinder Sleeve

Assures long engine life and improved oil control

Compact Envelope

Small engine size offers use in a variety of applications

Engine Warranty

3-year commercial engine warranty**

LUBRICATION

Full Pressure Lubrication with Spin-On Oil Filter

Cleans oil and protects engine components to ensure max. lubrication and long life

Centrally Located Oil Pump and Pickup

Faster priming and allows for a higher angle of operation

Oil Cooler

Reduces oil temperature for improved lubrication and engine life

MECHANICAL

High Efficiency Head Design

Angled ports optimize tumble and mixture preparation for improved efficiency, smoother idle, lower emissions and more power

Lightweight Piston and Ring Package

Lowers noise, vibration, oil consumption, emissions and wear

Dynamically Balanced Crankshaft

Minimizes engine noise and vibration

Low Profile Dual-Clean™ Air Cleaner

Industrial pleated paper with foam pre-cleaner for extended engine life

Mechanical Compression Release

Smooth, easy starting

Magnetron® Electronic Ignition

Quick, dependable starts with no maintenance required

SOUND

Poly-Core Blower Housing, Phase Modulated Flywheel Fan and Lo-Tone™ Muffler

BENEFITS

Lowers noise level and improves sound quality



* All power levels are stated gross HP at 3,600 RPM per SAE J1940 as rated by Briggs & Stratton.
 ** See www.vanguardengines.com/service-support/warranty for warranty details.

VANGUARD™ VERTICAL SHAFT V-TWIN ENGINES 24.0 - 28.0 GROSS HP*

FEATURES AND BENEFITS

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VANGUARD™

At 810cc, these commercial-grade engines establish a new standard for commercial turf applications. For turf professionals, that means higher performing, more efficient, more powerful and, ultimately, more profitable commercial cutting.

With the addition of optional closed-loop EFI, these engines are redefining commercial mower efficiency even further. Combined with 810cc performance, this automotive-based system can elevate your fuel savings by up to 25%† versus carbureted engines.

Typical applications include:
Commercial Mowers.



VANGUARD™ EFI
ELECTRONIC FUEL INJECTION

UP TO 25%
FUEL SAVINGS†



SPEED SENSING

Directs the right amount of fuel precisely when it's needed.

EXHAUST SENSING

For more accurate fuel delivery and maximum efficiency.

FUEL DELIVERY

Pressurises the fuel before it reaches the injectors.

FEATURES

V-Twin OHV Technology

BENEFITS

Offers lower vibration, reduced emissions, longer valve life, better fuel economy and more power per cc

Advanced Debris Management

Keeps engine clean and cool for enhanced durability and performance

Electronic Fuel Injection (EFI) on selected models

Optimized fuel injection and spark timing for added power and fuel economy

Dura-Bore™ Cast Iron Cylinder Sleeve

Withstands wear and abuse

Engine Warranty

3-year commercial engine warranty**

LUBRICATION

Full Pressure Lubrication with Spin-On Oil Filter

BENEFITS

Cleans oil and protects engine components to ensure max. lubrication and long life

MECHANICAL

Heavy-Duty Cylinder and Sump

Engine block designed to provide superior durability

Durable Head and Valve Train Design

Valve and seat materials uniquely matched to run under the most severe conditions

Automotive Grade Pistons with Forged Connection Rods

Lowers noise, vibration, oil consumption, emissions and wear

Forged crankshaft

Maximized strength, while minimizing vibration through dynamic balancing

Fire Ring Head Gaskets

Motorsports design maintains seal of higher combustion pressures

5" Cyclonic Air Cleaner

Provides maximum engine protection, especially under dirty and dusty conditions

Innovative Debris Chopper Fan

Excellent debris management and up to 30-degree cooler engine temperatures

Industrial Grade Solenoid Starter

Quick, reliable starting at all operating temperatures

Mechanical Compression Release

Smooth, easy starting

Cooling Fin Inspection Panels

Enables quick debris inspection and cleaning

EFI MODELS ONLY

Oxygen Sensor - Closed-Loop System

Enables up to 25% fuel savings†

High Pressure Fuel Pump Module

Alcohol & stale fuel resistance

Electronic Control Module (ECU)

Allows for altitude compensation, optimized starting and increased power

Service Solution

Suite of support and diagnostic tools allow for minimizing potential downtime

* All power levels are stated gross HP at 3,600 RPM per SAE J1940 as rated by Briggs & Stratton.

** See www.vanguardengines.com/service-support/warranty for warranty details.

† Fuel savings may vary based on operating conditions.

ENGINES ENGINES ENGINES & ENGINES

Vanguard™ engines are sold all over the world, used on a variety of commercial applications in different demanding environments.

Many applications require different feature sets to deliver optimal power and performance. Vanguard engines can be specified in multiple configurations to deliver the best power solution for the job at hand.

Below factory options can be specified upon request:

SINGLE-CYLINDER OPTIONS: 5.5 - 13.0 GROSS HP*

- » CARB Compliant
- » High/Low-Mount Mufflers (QGS)
- » Alternators (2 - 20 Amp)
- » Tapered Crankshaft
- » Threaded Crankshaft
- » 1/4" Fuel Line & Fuel Filter
- » Rocker Stop Switch
- » Tankless/Mufflerless
- » Oil Sensor

**SMALL BLOCK V-TWIN OPTIONS: 14.0 - 23.0 GROSS HP***

- » Solenoid Shift, Heavy Duty Inertia Drive & Rewind Rope Starters
- » Key Switch (H/S Only)
- » Alternators (9, 16, 7-16, 20 & 20-50 Amp)
- » Oil Cooler
- » Oil Pressure Switch
- » Straight Keyed Cranks (1" & 1-1/8" Diameters)
- » Flywheel Stub Shaft
- » Integrated Fuel Tank
- » Cyclonic Air Cleaners
- » High, Low & Side Mount Mufflers
- » CARB Compliant EVAP Purge Ports
- » CARB Compliant 6.95 qt. Fuel Tank (H/S Only)



UP TO 25% **VANGUARD™ EFI** FUEL SAVINGS' **ELECTRONIC FUEL INJECTION**

Our Vanguard™ V-Twin EFI engines feature an automotive-based, closed-loop EFI system that delivers easier starting and improved performance, with fuel savings of up to 25%.†

810cc V-TWIN OPTIONS: 24.0 - 28.0 GROSS HP*

- » Alternator (16 & 20 Amp)
- » Flexible Oil Drain Extension
- » Oil Pressure Switch
- » Straight Keyed Cranks (1" & 1-1/8" Diameters)
- » Exhaust Mounting Studs
- » CARB Compliant EVAP Purge Ports
- » Low Mount Muffler (EFI only)

**LARGE BLOCK V-TWIN OPTIONS: 25.0 - 37.0 GROSS HP***

- » Alternators (20 & 20-50 Amp)
- » Oil Pressure Switch
- » Straight Keyed & Tapered Cranks (1-1/8" & 1-7/16" Diameters)
- » Straight Key Crankshaft (1.125" / 1.437")
- » Direct Throttle Control (EFI only)
- » Flywheel Stub Shaft
- » Low Profile & Cyclonic Air Cleaners
- » EPA Compliant EVAP Purge Ports
- » High Speed 4750 RPM Package
- » Low Idle Speed Control (EFI only)
- » Engine Mounted Choke and Throttle Control
- » Tach/Hour Meter with Check Engine Light (EFI only)



	POWER LEVEL Gross HP*	MODEL NUMBER	DISPLACEMENT (cc)	BORE & STROKE (mm)	FUEL TANK (l)	OIL CAPACITY (l)	DRY WEIGHT (kg)	VALVE OHV	CYLINDER Cast Iron Sleeve	GOVERNOR Mechanical Governor	Carburettor	FUEL Electronic Fuel Injection	AIR CLEANER Paper Air Cleaner (Flat) With Foam Pre-Cleaner (Dual Element)	AIR CLEANER Paper Air Cleaner (Oval) With Foam Pre-Cleaner (Dual Element)	AIR CLEANER Automotive Style Air Cleaner With Foam Pre-Cleaner (Dual Element)	STARTING Centrifugal Multi Stage Cyclonic Air Cleaner	IGNITION Manual Choke	IGNITION Magnetron Ignition	LUBRICATION ECM Fired Transistor	LUBRICATION Splash Lubrication	LUBRICATION Full Pressure Lubrication With Oil Filter
HORIZONTAL VANGUARD™ SINGLE CYLINDER	5,5	13L1	205	68,3 x 55,9	3,3	0,6	18,7	•	1	•	•			•			•	•		•	
	6,5	13L3	205	68,3 x 55,9	3,3	0,6	18,7	•	1	•	•			•			•	•		•	
	8,0	19L1	305	79,2 x 61,9	3,6	0,8	25,9	•	1	•	•			•			•	•		•	
	10,0	19L2	305	79,2 x 61,9	3,6	0,8	25,9	•	1	•	•			•			•	•		•	
	13,0	2454	392	89,0 x 63,0	4,7	1,4	33,2	•	1	•	•		•			opt.	•	•		•	
HORIZONTAL VANGUARD™ V-TWINS	14,0	2964	479	68,0 x 66,0	opt.	1,7	32,7	•	2	•	•				•		•	•			•
	16,0	3054	479	68,0 x 66,0	opt.	1,7	32,7	•	2	•	•				•		•	•			•
	18,0	3564	570	72,0 x 70,0	opt.	1,7	33,6	•	2	•	•				•	opt.	•	•			•
	21,0	3854	627	75,5 x 70,0	opt.	1,7	35,0	•	2	•	•				•	opt.	•	•			•
	23,0	3864	627	75,5 x 70,0	opt.	1,7	35,0	•	2	•	•				•	opt.	•	•			•
	25,0	5404	896	85,5 x 78,0		2,3	56,8	•	2	•	•				opt.	•	•	•			•
	27,0	5414	896	85,5 x 78,0		2,3	56,8	•	2	•	•				opt.	•	•	•			•
	29,0	5424	896	85,5 x 78,0		2,3	56,8	•	2	•	•				opt.	•	•	•			•
	31,0	5434	896	85,5 x 78,0		2,3	56,8	•	2	•	•				opt.	•	•	•			•
	33,0	6114	993	85,5 x 86,5		2,3	56,8	•	2	•	•				opt.	•	•	•			•
	35,0	6134	993	85,5 x 86,5		2,3	56,8	•	2	•	•				opt.	•	•	•			•
	33,0 EFI	54E1	896	85,5 x 78,0		2,3	56,8	•	2	•					opt.	•			•		•
	35,0 EFI	61E1	993	85,5 x 86,5		2,3	56,8	•	2	•		•			opt.	•			•		•
	37,0 EFI	61E3	993	85,5 x 86,5		2,3	56,8	•	2	•		•			opt.	•			•		•
VERTICAL VANGUARD™ V-TWINS	16,0	3057	479	68,0 x 66,0		1,7	32,4	•	2	•	•				•		•	•			•
	18,0	3567	570	72,0 x 70,0		1,7	33,3	•	2	•	•				•		•	•			•
	21,0	3857	627	75,5 x 70,0		1,7	35,0	•	2	•	•				•		•	•			•
	23,0	3867	627	75,5 x 70,0		1,7	35,0	•	2	•	•				•		•	•			•
	24,0	49V6	810	83,8 x 73,4		1,98	41,3	•	2	•	•					•	•	•			•
	26,0	49R9	810	83,8 x 73,4		1,98	41,3	•	2	•	•					•	•	•			•
	24,0 EFI	49E5	810	83,8 x 73,4		1,98	41,3	•	2	•		•				•			•		•
	26,0 EFI	49E7	810	83,8 x 73,4		1,98	41,3	•	2	•		•				•			•		•
	28,0 EFI	49E8	810	83,8 x 73,4		1,98	41,3	•	2	•		•			•	•			•		•



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