



# VANGUARD®

## The Power Application Experts

Power Guide



BRIGGS & STRATTON  
CORPORATION



# VANGUARD®

## Reliability. Without Question.

Cut through all the fancy talk. Your livelihood and reputation rest on two things: reliability and performance. Our application experts get it. They designed these commercial-grade engines to deliver unrelenting performance — day after day, job after job — no matter how harsh the conditions. Every engine comes standard with meticulous quality and craftsmanship, cutting-edge innovations, and a global team of engineering and of power application experts ready to assist however needed.

Choose engines that help you get the job done right every time.

- > **COMMERCIAL TURF**
- > **CONSTRUCTION**
- > **FIRE & RESCUE**
- > **GOLF**
- > **LANDSCAPE & AG**
- > **MARINE**
- > **RACING**
- > **RENTAL**
- > **TELECOMMUNICATIONS**





## VANGUARD® SINGLE-CYLINDER ENGINES



New Vanguard® 400  
14.0 Gross HP<sup>1</sup>



Vanguard® 200  
6.5 Gross HP<sup>1</sup>



New Vanguard® 160  
5.0 Gross HP<sup>1</sup>



<sup>2</sup> Our line of single-cylinder horizontal shaft commercial engines sets new standards in performance, ease of use and cost of ownership. These engines deliver best-in-class starting, reduced vibration and noise, and less downtime for scheduled maintenance.



Typical applications include: **Concrete Equipment, Pressure Washers, Pumps, Generators, Tillers, Blowers, Commercial Construction and Agriculture Equipment.**

### Popular Options

- > Clear Flange Muffler
- > High-Inclination Package (up to 45 degrees)
- > 2:1 Gear Reduction



Register your engine at [vanguardpower.com/registration](http://vanguardpower.com/registration) and receive an extra year of commercial limited warranty.<sup>3</sup>

## VANGUARD® SMALL BLOCK V-TWIN



Horizontal Shaft  
13.0–23.0 Gross HP<sup>1</sup>



Vertical Shaft  
16.0–23.0 Gross HP<sup>1</sup>



Each engine is engineered to dependably take on the most demanding commercial applications. As the lightest and most compact V-Twins among leading brands, the Vanguard “small blocks” feature a number of advanced technologies and integrated components to put more power in a smaller space.

Typical applications include: **Golf and Turf Equipment, Commercial Mowers, Power Packs, Telecommunications and Generators.**

### Popular Options

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

## VANGUARD® 810cc V-TWIN



24.0–28.0 Gross HP<sup>1</sup>



These commercial-grade engines establish a new standard for zero-turn engine displacement. For turf professionals, that means higher-performing, more efficient, more powerful and, ultimately, more profitable commercial cutting.

Typical applications include: **Commercial Mowers.**

### Popular Options

- > Vanguard **EFI**
- > Solenoid Shift, Heavy-Duty Inertia Drive Starters
- > Electronic Fuel Management
- > Alternator (16 and 20 amp)
- > Flexible Oil Drain Extension
- > Oil Pressure Switch
- > Straight Keyed Cranks (1" and 1-1/8" Diameters)
- > Exhaust Mounting Studs
- > CARB Compliant EVAP Purge Ports
- > Low Mount Muffler

## VANGUARD® BIG BLOCK™ V-TWIN



Horizontal Shaft  
25.0–40.0 Gross HP<sup>1</sup>



Vertical Shaft  
23.0–40.0 Gross HP<sup>1</sup>



V/S only

Vanguard is the innovator and proven leader for BIG BLOCK™ V-Twin engine power, performance and reliability. For the most challenging applications — where downtime is not an option — this BIG BLOCK V-Twin engine lineup 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, Chippers/Shredders, Commercial Mowers and Mud Boats.**

### Popular Options

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

## BRIGGS & STRATTON® COMMERCIAL SERIES V-TWIN



16.0–27.0 Gross HP<sup>1</sup>



Specifically designed for high-debris applications, these robust engines are built to get the job done. The Commercial Series V-Twin engines are designed with our patented 5-Step Debris Management System and cyclonic air filter that keeps harmful debris out of the engine.

Typical applications include: **Commercial Mowers, Concrete Grinders and Floor Burnishers.**

### Popular Options

- > Electronic Fuel Management
- > Alternators (9 and 16 amp)
- > Oil Pressure Switch
- > Straight Keyed Cranks (1" and 1-1/8" Diameters)
- > Flexible Oil Drain Extension
- > Exhaust Mounting Studs
- > CARB Compliant EVAP Purge Ports
- > Pre-filter
- > Recoil Starter
- > Dynamically Balanced Flywheel (recoil only)
- > High Flow Static Cover

<sup>1</sup>All power levels are stated gross HP at 3,600 RPM per SAE J1940

<sup>2</sup>See [vanguardpower.com/service-support/warranty](http://vanguardpower.com/service-support/warranty) for warranty details.

<sup>3</sup>Offer not valid in CA or QC - Visit [vanguardpower.com](http://vanguardpower.com) for complete details.

<sup>1</sup>All power levels are stated gross HP at 3,600 RPM per SAE J1940

<sup>2</sup>See [vanguardpower.com/service-support/warranty](http://vanguardpower.com/service-support/warranty) for warranty details.



ENGINE TECHNICAL INFORMATION

		POWER LEVEL	DISPLACEMENT	BORE	STROKE	WEIGHT	OIL CAPACITY	VALVE	CYLINDERS
		Gross HP <sup>1</sup>	cc/cubic in.	in.	in.	lbs.	oz.	OHV	Cast Iron Sleeve
VANGUARD® SINGLE-CYLINDER (H/S)	New 400	14.0	408/24.90	3.46	2.64	78	32	•	1
	200	6.5	203/12.36	2.68	2.20	37	20	•	1
	New 160	5.0	169/37	2.44	2.20	39.5	20	•	1
VANGUARD® SINGLE-CYLINDER (H/S)		5.5	205/12.48	2.69	2.20	41	20	•	1
		6.0	205/12.48	2.69	2.20	41	20	•	1
		6.5	205/12.48	2.69	2.20	41	20	•	1
		8.0	305/18.63	3.12	2.44	57	28	•	1
		10.0	305/18.63	3.12	2.44	57	28	•	1
VANGUARD® SMALL BLOCK V-TWIN (H/S, V/S)		13.0 (H/S only)	479/29.23	2.68	2.60	72	48	•	2
		16.0	479/29.23	2.68	2.60	72	48	•	2
		18.0	570/34.78	2.83	2.76	74	48	•	2
		21.0	627/38.26	2.97	2.76	77	48	•	2
		23.0	627/38.26	2.97	2.76	77	48	•	2
		23.0 w/EFI (H/S)	627/38.26	2.97	2.76	77	48	•	2
VANGUARD® 810cc V-TWIN (V/S)		24.0	810/49.42	3.30	2.89	92	67	•	2
		26.0	810/49.42	3.30	2.89	92	67	•	2
		26.0 w/EFI	810/49.42	3.30	2.89	92	67	•	2
		28.0 w/EFI	810/49.42	3.30	2.89	92	67	•	2
VANGUARD® BIG BLOCK™ V-TWIN (H/S)		25.0	896/54.68	3.37	3.07	125	78	•	2
		27.0	896/54.68	3.37	3.07	125	78	•	2
		29.0	896/54.68	3.37	3.07	125	78	•	2
		31.0	896/54.68	3.37	3.07	125	78	•	2
		33.0	993/60.60	3.37	3.41	125	78	•	2
		35.0	993/60.60	3.37	3.41	125	78	•	2
		33.0 w/EFI	896/54.68	3.37	3.41	125	78	•	2
		35.0 w/EFI	993/60.60	3.37	3.41	125	78	•	2
		37.0 w/EFI	993/60.60	3.37	3.41	125	78	•	2
		40.0 w/EFI <sup>2</sup>	993/60.60	3.37	3.41	125	78	•	2
		28.0	896/54.68	3.37	3.07	125	82	•	2
		30.0	896/54.68	3.37	3.07	125	82	•	2
VANGUARD® BIG BLOCK™ V-TWIN (V/S)		32.0	896/54.68	3.37	3.07	125	82	•	2
		36.0	993/60.60	3.37	3.41	125	82	•	2
		33.0 w/EFI	896/54.68	3.37	3.07	125	82	•	2
		35.0 w/EFI	993/60.60	3.37	3.41	125	82	•	2
		37.0 w/EFI	993/60.60	3.37	3.41	125	82	•	2
		40.0 w/EFI <sup>2</sup>	993/60.60	3.37	3.41	125	82	•	2
		16.0	656/40.03	2.97	2.89	82	64	•	2
		18.0	656/40.03	2.97	2.89	82	64	•	2
		20.0	656/40.03	2.97	2.89	82	64	•	2
BRIGGS & STRATTON® COMMERCIAL SERIES V-TWIN (V/S)		22.0	724/44.18	3.12	2.89	82	64	•	2
		23.0	724/44.18	3.12	2.89	82	64	•	2
		24.0	724/44.18	3.12	2.89	84	64	•	2
		25.0	724/44.18	3.12	2.89	84	64	•	2
		26.0	810/49.42	3.30	2.89	84	67	•	2
		27.0	810/49.42	3.30	2.89	84	67	•	2
		16.0	656/40.03	2.97	2.89	82	64	•	2
		18.0	656/40.03	2.97	2.89	82	64	•	2

AIR CLEANER			IGNITION			LUBRICATION	
Cyclonic Air Cleaner	Dual-Clean™	High-Capacity Commercial Air Cleaner	Magnetron®	Capacitive Discharge Ignition (CDI)	Computer Controlled Battery Ignition (EFI only)	Splash Lubrication	Full Pressure Lubrication with Oil Filter
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<sup>1</sup>All power levels are stated gross HP at 3,600 RPM per SAE J1940

<sup>2</sup>For Marine Applications



For your customers, downtime means lost dollars. The Vanguard® Service Promise is our commitment to help them decrease the profit-robbing impact of downtime on their bottom line.

■ **UNIFIED, NATIONAL DISTRIBUTION NETWORK**

A single, committed source for Vanguard parts and engines. Taking “easy to do business with” to a whole new level.

■ **COMPREHENSIVE TECHNICIAN TRAINING**

Online, video library or in-person formats to keep servicing dealers informed and trained.

■ **GLOBAL LIMITED COMMERCIAL WARRANTY<sup>1</sup>**

Efficient, respected warranty processing.

■ **NEXT-DAY PART AND ENGINE DELIVERY**

■ **PROVIDERS OF GENUINE VANGUARD PARTS**

Guaranteed to fit and built to last.

■ **MAXIMIZE** equipment value with repowering opportunities.

A robust replacement engine lineup for commercial applications.

■ **QR POWER CODES**

Engine information at your fingertips with a quick smartphone scan.

**VANGUARD COMMERCIAL POWER**

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Briggs & Stratton has a policy of continuous product improvement and reserves the right to modify its specifications at any time and without prior notice.  
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<sup>1</sup>See [vanguardpower.com/service-support/warranty](http://vanguardpower.com/service-support/warranty) for warranty details.