

# VANGUARD®



## Vanguard® BIG BLOCK™ V-Twin Engines

25.0–40.0 GROSS HP\*

**MAKE A POWER STATEMENT**



BRIGGS & STRATTON  
CORPORATION



# Trust the Power®

## Vanguard® BIG BLOCK™ V-Twin Engines

### POWER TO THE PEOPLE

- > You demanded more power — and we delivered. In 2005 Vanguard pioneered the BIG BLOCK™ engine to answer customers' need for more power and performance for heavy-duty commercial applications. We continue listening to customers to develop power solutions and services that boost their bottom lines.

### THE VERSATILE POWER SOURCE

- > Whether powering mud boats, commercial mowers, concrete trowels or more, BIG BLOCK™ engines continue to prove themselves in an array of demanding applications.

### POWER APPLICATION EXPERTS

- > You don't just get an engine from Vanguard — you get world-class application and mechanical engineering, in-depth training and superior technical support. Plus, our Power Application Centers allow us to solve specific customer challenges or prove how new innovations will perform across markets.

### PROUDLY MADE IN THE U.S.A.

- > Hand-assembled, meticulous craftsmanship. It's not a lost art. It's how we build each Vanguard BIG BLOCK™ engine right here in Auburn, Alabama. No shortcuts. Just timeless American quality.

**33.0, 35.0 GROSS HP¹**  
**35.0, 37.0, 40.0 GROSS HP¹ WITH EFI**  
993cc H/S

**25.0, 27.0, 29.0, 31.0 GROSS HP¹**  
**33.0 GROSS HP¹ WITH EFI**  
896cc H/S

**36.0 GROSS HP¹**  
**35.0, 37.0, 40.0 GROSS HP¹ WITH EFI**  
993cc V/S

**28.0, 30.0, 32.0 GROSS HP¹**  
**33.0 GROSS HP¹ WITH EFI**  
896cc V/S

<sup>1</sup>All power levels are stated gross HP at 3,600 RPM per SAE J1940 as rated by Briggs & Stratton.



KEY FEATURES	HIGHER DURABILITY	SUPERIOR AIR MANAGEMENT	REDUCED NOISE, VIBRATION & HARSHNESS
Heavy-Duty Cylinder & Sump	●		
High-Efficiency Head Design	●		
Forged Connecting Rods	●		
High-Capacity Oil Pump	●		
Cast Aluminum Valve Covers	●		●
Dynamically Balanced Crankshaft	●		●
Automotive Material Pistons	●		
Cyclonic Air Cleaner	●	●	
Metal Rotating Screen		●	
Controls Inspection Panel		●	
High-Flow Blower Housing & Static Guard		●	
Balanced Flywheel			●

<sup>1</sup>See [vanguardpower.com/service-support/warranty](http://vanguardpower.com/service-support/warranty) for warranty details.

## GET MORE POWER, USE LESS FUEL



Adding closed-loop electronic fuel injection (EFI) to our BIG BLOCK™ engines dramatically reduces fuel consumption compared to carbureted equivalents. And our engineers didn't just design Vanguard EFI to look good on paper; they made sure it delivers in real-world application environments.

## VANGUARD EFI MEANS:

**EXCEPTIONAL FUEL SAVINGS**  
as fuel is delivered more efficiently.

**NO-CHOKE, NO-HASSLE STARTING**  
regardless of temperature and pressure.

**MORE POWER**  
to get more done.

**LOAD PICKUP**  
with on-demand power.

**ALTITUDE COMPENSATION**  
for worry-free performance at all altitudes.

**STALE FUEL RESISTANCE**  
so your engine is ready when you are.

## GETTING THE JOB DONE

# ENGINE TECHNICAL SPECIFICATIONS



**CARBURETED H/S**

**EFI H/S**

**CARBURETED V/S**

**EFI V/S**

ENGINE	25.0/27.0/29.0/31.0/ 33.0/35.0 Gross HP <sup>3</sup>	33.0/35.0/37.0/40.0 <sup>2</sup> Gross HP <sup>3</sup>	28.0/30.0/32.0/36.0 Gross HP <sup>3</sup>	33.0/35.0/37.0/40.0 <sup>2</sup> Gross HP <sup>3</sup>
DISPLACEMENT cc/CID	896/54.68, 993/60.60	896/54.68, 993/60.60	896/54.68, 993/60.60	896/54.68, 993/60.60
BORE in.	3.37	3.37	3.37	3.37
STROKE in.	3.07, 3.41	3.41	3.07, 3.41	3.07, 3.41
WEIGHT lbs.	125	125	125	125
LENGTH in./mm.	14.92/379.0	14.92/379.0	23.66/601.0	23.66/601.0
WIDTH in./mm.	19.53/496.0	19.53/496.0	20.24/514.0	20.24/514.0
HEIGHT in./mm.	28.54/725.0	28.54/725.0	24.65/626.0	24.65/626.0
OIL CAPACITY oz.	78	78	82	82
VALVE CONFIGURATION	Overhead Valve (OHV)	Overhead Valve (OHV)	Overhead Valve (OHV)	Overhead Valve (OHV)
CYLINDER	Dura-Bore™ Cast Iron Cylinder Sleeve	Dura-Bore™ Cast Iron Cylinder Sleeve	Dura-Bore™ Cast Iron Cylinder Sleeve	Dura-Bore™ Cast Iron Cylinder Sleeve
AIR CLEANER	5" Cyclonic Air Cleaner	5" Cyclonic Air Cleaner	5" Cyclonic Air Cleaner	5" Cyclonic Air Cleaner
IGNITION	Magnetron®	ECM-Fired Transistor	Magnetron®	ECM-Fired Transistor
LUBRICATION	Full-Pressure Lube	Full-Pressure Lube	Full-Pressure Lube	Full-Pressure Lube

## OPTIONS

KEY SWITCH	●	●	●	●
OIL PRESSURE SWITCH	●	●	●	●
LOW-PROFILE AND CYCLONIC AIR CLEANERS	●	●	●	●
FLYWHEEL STUB SHAFT	●	●	●	●
ENGINE-MOUNTED CHOKE AND THROTTLE CONTROL	●	●	●	●
TACH/HOUR METER WITH CHECK ENGINE LIGHT		●		●
DIRECT THROTTLE CONTROL		●		●
LOW-IDLE SPEED CONTROL		●		●

### VANGUARD COMMERCIAL POWER

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# VANGUARD

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.

<sup>2</sup>For Marine Application.

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