

VANGUARD®



Vanguard® BIG BLOCK™
V-Twin Engines
27.0 - 40.0 GROSS HP*

TRUST THE POWER.®



Make a Power Statement.

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.

ASSEMBLED 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 short cuts. Just timeless American quality.

33.0, 35.0 GROSS HP¹

35.0, 37.0, 40.0 GROSS HP¹ WITH EFI

33.0, 37.0, 40.0 GROSS HP¹ WITH EFI/ETC

993cc H/S

27.0, 29.0, 31.0 GROSS HP¹

33.0 GROSS HP¹ WITH EFI

896cc H/S

33.0, 36.0 GROSS HP¹

33.0, 35.0, 37.0, 40.0 GROSS HP¹ WITH EFI¹

33.0, 37.0, 40.0 GROSS HP¹ WITH EFI/ETC¹

993cc V/S

32.0 GROSS HP¹

33.0 GROSS HP¹ with EFI

896cc V/S



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

¹ETC technology is available on the 40.0 Gross HP V/S EFI engine.



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			●

¹See vanguardpower.com for warranty details.

GET MORE POWER, USE LESS FUEL



Adding 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.

CONSISTENT POWER



Vanguard ETC technology reacts instantaneously to any applied load from its environment to ensure consistent engine speed and maintain power when the application demands it.

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	27.0, 29.0, 31.0, 33.0, 35.0 Gross HP ³	33.0, 35.0, 37.0, 40.0 ² Gross HP ³	32.0, 33.0, 36.0 Gross HP ³	33.0, 35.0, 37.0, 40.0 ¹ Gross HP ³
DISPLACEMENT cc/CID	896/54.68, 993/60.60	896/54.68, 993/60.60	896/54.68, 993/60.60	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	3.41
WEIGHT lbs.	125	125	125	125
LENGTH in./mm.	14.92/379.0	14.92/379.0	23.66/601.0	22.09/601.0
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	●	●	●	●
FLYWHEEL STUB SHAFT	●	●		
ENGINE-MOUNTED CHOKE AND/OR THROTTLE CONTROL	●	●		
TACH/HOUR METER WITH CHECK ENGINE LIGHT		●		●
DIRECT THROTTLE CONTROL²		●		●
LOW-IDLE SPEED CONTROL²		●		●

VANGUARD

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WWW.VANGUARDPOWER.COM

¹See vanguardpower.com for warranty details.

²For Marine Application.

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⁴ETC technology is available on the 33.0, 35.0 and 40.0 Gross HP V/S EFI engine.