



# VANGUARD™

**VANGUARD™ Engines**  
 Premium-grade VANGUARD™ engines are designed and application engineered to meet the requirements of the most demanding commercial applications. They incorporate powerful OHV (Overhead Valve) technology for maximum performance and a number of advanced features that extend the engine life, minimize maintenance, and assures easier starts and lower noise levels.

**Heavy-duty rewind and rope**  
**Stronger forged crankshaft and cast iron camshaft**  
**Dual ball bearings**

Engines equipped with Cooler / Cleaner technology extends engine life by reducing engine and oil temperatures by 25° - 30°, while effectively managing airborne debris.

**3 YEAR LIMITED WARRANTY**  
 VANGUARD air-cooled petrol engines are supplied with a 3 year limited global warranty for both commercial and consumer use. For more information please visit [www.vanguardengines.com](http://www.vanguardengines.com)



## 2017 EUROPEAN PERFORMANCE & COMMERCIAL ENGINES

PERFORMANCE • HORIZONTAL SHAFT ENGINES • PERFORMANCE



LARGE VERTICAL SHAFT • VANGUARD™ V-TWIN ENGINES • LARGE VERTICAL SHAFT



HORIZONTAL SHAFT • VANGUARD™ SINGLE CYLINDER ENGINES • HORIZONTAL SHAFT



HORIZONTAL SHAFT • VANGUARD™ V-TWIN ENGINES • HORIZONTAL SHAFT



HORIZONTAL SHAFT • VANGUARD™ V-TWIN ENGINES • HORIZONTAL SHAFT



# ONLY THE BEST WILL DO.

**SUPERIOR POWER AND FUEL EFFICIENCY. CASE CLOSED.**

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%.\*

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 pressurizes the fuel before it reaches the injectors.

- ▶ SPEED SENSING
- ▶ EXHAUST SENSING
- ▶ FUEL DELIVERY

Model	Max Torque (Nm)	Max Torque (ft-lb)	Max Power (kW)	Max Power (HP)	Stroke (mm)	Bore (mm)	Displacement (cc)	Oil Capacity (L)	Oil Capacity (qt)	Altitude (m)	Altitude (ft)	Horizontal Shaft	Vertical Shaft	Large Vertical Shaft	Horizontal Shaft	Large Vertical Shaft	Small Vertical Shaft	Horizontal Shaft	Large Vertical Shaft	Small Vertical Shaft
XR550	100	73.8	13.0	17.7	50.0	42.0	2100	0.6	0.6	2000	6561	•	•	•	•	•	•	•	•	•
XR750	130	95.8	16.5	22.4	50.0	42.0	2100	0.6	0.6	2000	6561	•	•	•	•	•	•	•	•	•
XR950	160	117.7	20.0	27.1	50.0	42.0	2100	0.6	0.6	2000	6561	•	•	•	•	•	•	•	•	•
XR1450	200	147.2	25.0	33.7	50.0	42.0	2100	0.6	0.6	2000	6561	•	•	•	•	•	•	•	•	•
XR2100	250	183.3	31.0	41.8	50.0	42.0	2100	0.6	0.6	2000	6561	•	•	•	•	•	•	•	•	•
V-Twin OHV 16,0 HP	3057	223.5	30.0	40.7	50.0	42.0	2100	0.6	0.6	2000	6561	•	•	•	•	•	•	•	•	•
V-Twin OHV 18,0 HP	3567	261.0	35.0	47.3	50.0	42.0	2100	0.6	0.6	2000	6561	•	•	•	•	•	•	•	•	•
V-Twin OHV 23,0 HP	3867	280.0	38.0	50.7	50.0	42.0	2100	0.6	0.6	2000	6561	•	•	•	•	•	•	•	•	•
V-Twin OHV 26,0 HP	499S	350.0	47.0	63.5	50.0	42.0	2100	0.6	0.6	2000	6561	•	•	•	•	•	•	•	•	•
V-Twin OHV 28,0 HP	49E8	360.0	48.5	67.2	50.0	42.0	2100	0.6	0.6	2000	6561	•	•	•	•	•	•	•	•	•
V-Twin OHV 5,5 HP	13L1	40.0	5.5	7.4	50.0	42.0	2100	0.6	0.6	2000	6561	•	•	•	•	•	•	•	•	•
V-Twin OHV 6,5 HP	13L3	50.0	6.7	9.1	50.0	42.0	2100	0.6	0.6	2000	6561	•	•	•	•	•	•	•	•	•
V-Twin OHV 8,0 HP	19L1	60.0	8.1	10.9	50.0	42.0	2100	0.6	0.6	2000	6561	•	•	•	•	•	•	•	•	•
V-Twin OHV 10,0 HP	19L2	70.0	9.5	12.8	50.0	42.0	2100	0.6	0.6	2000	6561	•	•	•	•	•	•	•	•	•
V-Twin OHV 13,0 HP	2454	90.0	12.2	16.4	50.0	42.0	2100	0.6	0.6	2000	6561	•	•	•	•	•	•	•	•	•
V-Twin OHV 14,0 HP	2964	100.0	13.6	18.4	50.0	42.0	2100	0.6	0.6	2000	6561	•	•	•	•	•	•	•	•	•
V-Twin OHV 16,0 HP	3054	110.0	14.9	20.1	50.0	42.0	2100	0.6	0.6	2000	6561	•	•	•	•	•	•	•	•	•
V-Twin OHV 18,0 HP	3564	130.0	17.7	23.8	50.0	42.0	2100	0.6	0.6	2000	6561	•	•	•	•	•	•	•	•	•
V-Twin OHV 21,0 HP	3854	150.0	20.3	27.3	50.0	42.0	2100	0.6	0.6	2000	6561	•	•	•	•	•	•	•	•	•
V-Twin OHV 23,0 HP	3864	160.0	21.7	29.1	50.0	42.0	2100	0.6	0.6	2000	6561	•	•	•	•	•	•	•	•	•
V-Twin OHV 25,0 HP	5404	180.0	24.3	32.6	50.0	42.0	2100	0.6	0.6	2000	6561	•	•	•	•	•	•	•	•	•
V-Twin OHV 27,0 HP	5414	190.0	25.7	35.4	50.0	42.0	2100	0.6	0.6	2000	6561	•	•	•	•	•	•	•	•	•
V-Twin OHV 29,0 HP	5424	200.0	27.1	36.5	50.0	42.0	2100	0.6	0.6	2000	6561	•	•	•	•	•	•	•	•	•
V-Twin OHV 31,0 HP	5434	210.0	28.5	38.3	50.0	42.0	2100	0.6	0.6	2000	6561	•	•	•	•	•	•	•	•	•
V-Twin OHV 33,0 HP	6114	220.0	29.9	40.1	50.0	42.0	2100	0.6	0.6	2000	6561	•	•	•	•	•	•	•	•	•
V-Twin OHV 35,0 HP	6134	230.0	31.3	41.9	50.0	42.0	2100	0.6	0.6	2000	6561	•	•	•	•	•	•	•	•	•
V-Twin OHV 33,0 HP	54E1	240.0	32.7	44.3	50.0	42.0	2100	0.6	0.6	2000	6561	•	•	•	•	•	•	•	•	•
V-Twin OHV 37,0 HP	61E3	250.0	34.1	46.1	50.0	42.0	2100	0.6	0.6	2000	6561	•	•	•	•	•	•	•	•	•

# VANGUARD™



**TRUST THE BRAND TRUST THE POWER**

Powering the machines they depend on. Firefighters throughout Europe put their faith in VANGUARD™ V-Twin powered machinery.

WWW.BRIGGS&STRATTON.COM  
 TEL: +44 (0)20 419 1200  
 FAX: +44 (0)20 419 1201  
 BRIGGS & STRATTON AG  
 BOUWREGRASSE 11  
 8007 HILBERSLOCH, SWITZERLAND  
 © 2016 Briggs & Stratton Corporation. All rights reserved.



## EUROPEAN ENGINES 2017



- ✓ POWER
- ✓ PERFORMANCE
- ✓ RELIABILITY

\*Fuel savings may vary based on cutting conditions and other factors.

HP engines are stated gross torque at 2100 rpm per SAE J1940 as noted by Briggs & Stratton. All VANGUARD™ and IQ engines are stated gross horsepower at 3000 rpm per SAE J1940 as noted by Briggs & Stratton.

**NEXT GENERATION STARTING**

The award winning iS SERIES InStart® system brings together the perfect combination of petrol powered cutting performance with the ease of next generation starting. Ingenious integration of engine and lithium-ion battery delivers cutting power at a touch.

**INSTART® - THE SMARTER WAY TO START.**



1. The Lithium-ion battery mounts directly onto the top of the engine.
2. To recharge the Lithium-ion battery simply remove the battery from the engine housing and place in the charger.



3. Place the battery into the charger for 60 minutes for a full charge or for 10 minutes for a quick charge.

**NO PRIMING - NO CHOKING - NO PULLING THE SMARTER WAY TO START**



**STARTING FLEXIBILITY**

InStart provides the easiest starting ever with push-button, bail start or traditional key-switch starting, eliminating the need for the traditional rewind starting system.



**ENTRY • SMALL VERTICAL SHAFT ENGINES • ENTRY**



**MODEL 08P5 450E SERIES™ OHV**    **MODEL 08P6 500E SERIES™ OHV**    **MODEL 08P7 550E SERIES™ OHV**

**STANDARD • SMALL VERTICAL SHAFT ENGINES • STANDARD**



**MODEL 09P7 575EX SERIES™ OHV**    **MODEL 093J 625E SERIES™ OHV**    **MODEL 103M 650EXI SERIES™ OHV**    **MODEL 104M 675EXI SERIES™ OHV**    **MODEL 104M 675IS SERIES™ OHV INSTART®**

**PERFORMANCE • SMALL VERTICAL SHAFT ENGINES • PERFORMANCE**



**MODEL 100B 750EX SERIES™ DOV®**    **MODEL 100B 750EX SERIES™ I/C® DOV®**    **MODEL 100B 775IS SERIES™ DOV® INSTART®**

**PREMIUM • SMALL VERTICAL SHAFT ENGINES • PREMIUM**



**MODEL 112P 800E SERIES™ OHV**    **MODEL 122Q 850E SERIES™ I/C® OHV**    **MODEL 122S 875EX SERIES™ OHV**    **MODEL 122S 875IS SERIES™ OHV INSTART®**    **MODEL 14D9 950E SERIES™ OHV**

**STANDARD • LARGE VERTICAL SHAFT ENGINES • STANDARD**



**MODEL 21R8 POWERBUILT™ SERIES 3130 OHV**    **MODEL 31R8 POWERBUILT™ SERIES 4185 OHV**    **MODEL 21R8 INTEK™ SERIES 3130 OHV**

**PERFORMANCE • LARGE VERTICAL SHAFT ENGINES • PERFORMANCE**



**MODEL 31R9 INTEK™ SERIES 4195 OHV**    **MODEL 33R8 INTEK™ SERIES 5210 OHV**    **MODEL 40N8 INTEK™ SERIES 7220 V-TWIN OHV**    **MODEL 44N6 INTEK™ SERIES 8240 V-TWIN OHV**

**PREMIUM • LARGE VERTICAL SHAFT ENGINES • PREMIUM**



**MODEL 33R8 PROFESSIONAL SERIES™ SERIES 5210 OHV**    **MODEL 40S8 PROFESSIONAL SERIES™ SERIES 7220 V-TWIN OHV**    **MODEL 44S6 PROFESSIONAL SERIES™ SERIES 8240 V-TWIN OHV**    **MODEL 44T8 COMMERCIAL SERIES™ SERIES 8270 V-TWIN OHV**

**ENTRY • HORIZONTAL SHAFT ENGINES • ENTRY**



**MODEL 10U2 RS 5,0 HP OHV**    **MODEL 13U2 RS 6,5 HP OHV**    **MODEL 10R2 CR750 OHV**    **MODEL 13R2 CR950 OHV**

**PERFORMANCE • SNOW ENGINES • PERFORMANCE**



**MODEL 10D1 750 SNOW SERIES™ OHV**    **MODEL 13A1 950 SNOW SERIES™ OHV**    **MODEL 15C1 1150 SNOW SERIES™ OHV**    **MODEL 19J1 1450 SNOW SERIES™ OHV**    **MODEL 25M1 2100 SNOW SERIES™ OHV**

**ELECTRONIC FUEL MANAGEMENT**

**Electronic Fuel Management (EFM)**

A system that electronically monitors time, engine speed and temperature to simplify and optimize engine starting. EFM is an affordable, low service complexity, automotive style starting system.

**Lo-Tone™ and Super Lo-Tone™ Muffler**

Briggs & Stratton continually strive to deliver engines with exceptional sound and tonal quality. With the Lo-Tone™ and Super Lo-Tone™ muffler systems you are assured of excellent sound and total performance.

**READYSTART**

**ReadyStart®**

The ReadyStart® system sets the standard for easy rope starting. The innovative break through starting system eliminates the need to manually prime or choke the engine before starting. ReadyStart is available on selected models.

**S2 Start Guarantee®**

The Briggs & Stratton S2 Start Guarantee® offers you and your customers peace of mind that our engines will start within two pulls every time guaranteed. Our continual pursuit for total product reliability backed by nearly 110 years of design and innovation has resulted in this unique product guarantee.

The S2 Start Guarantee is offered on all our ReadyStart engines. For more information contact your Sales Representative.

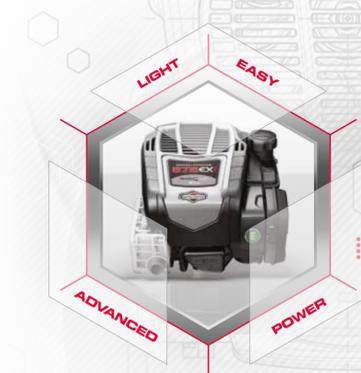
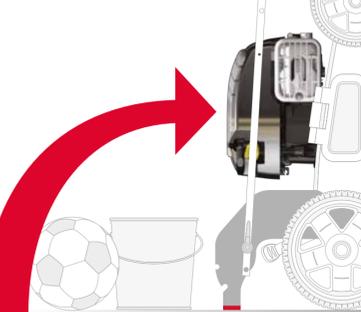
Engine Key	Model Number	Displacement (cc)	Max. Torque (Nm)	Max. Speed (rpm)	City Weight (kg)	City Capacity (l)	Dimensions (mm) H x W x D	Max. Net Power (kW/HP)	Minimum Cylinders	Gov. Type	Air Filter	Starting	Lubrication	
Small Vertical	08P5	125	60.0 x 44.5	0.8	0.2	0.47	347 x 310 x 244	0.8	2	Choke	Standard	Oil	Oil	
Small Vertical	08P6	142	63.4 x 44.5	0.8	0.2	0.47	347 x 310 x 244	0.8	2	Choke	Standard	Oil	Oil	
Small Vertical	08P7	140	63.4 x 44.5	0.8	0.2	0.47	347 x 310 x 244	0.8	2	Choke	Standard	Oil	Oil	
Small Vertical	093J	150	65.6 x 44.5	0.8	0.2	0.47	347 x 310 x 244	0.8	2	Choke	Standard	Oil	Oil	
Small Vertical	103M	163	68.3 x 44.5	1.0	0.5	0.47	349 x 314 x 253	1.0	2	Choke	Standard	Oil	Oil	
Small Vertical	104M	163	68.3 x 44.5	1.0	0.5	0.47	349 x 314 x 253	1.0	2	Choke	Standard	Oil	Oil	
Small Vertical	104M	163	68.3 x 44.5	1.0	0.5	0.47	349 x 314 x 254	1.0	2	Choke	Standard	Oil	Oil	
Small Vertical	100B	161	64.0 x 50.0	1.0	1.1	0.6	369 x 326 x 254	1.0	2	Choke	Standard	Oil	Oil	
Small Vertical	100B	161	64.0 x 50.0	1.0	1.1	0.6	369 x 326 x 254	1.0	2	Choke	Standard	Oil	Oil	
Small Vertical	100B	161	64.0 x 50.0	1.0	1.1	0.6	369 x 326 x 253	1.0	2	Choke	Standard	Oil	Oil	
Small Vertical	112P	175	65.6 x 51.8	1.1	1.2	0.6	397 x 326 x 238	1.1	2	Choke	Standard	Oil	Oil	
Small Vertical	122Q	190	68.3 x 51.8	1.1	1.2	0.6	397 x 326 x 238	1.1	2	Choke	Standard	Oil	Oil	
Small Vertical	122S	190	68.3 x 51.8	1.1	1.2	0.6	397 x 326 x 238	1.1	2	Choke	Standard	Oil	Oil	
Small Vertical	14D9	223	74 x 51.3	1.1	1.4	0.6	401 x 326 x 257	1.1	2	Choke	Standard	Oil	Oil	
Large Vertical	21R8	344	87.3 x 57.5	2.6	0.8	1.4	482 x 393 x 327	2.6	4	Choke	Standard	Oil	Oil	
Large Vertical	31R8	500	90.5 x 77.8	2.9	1.4	1.4	479 x 393 x 327	2.9	4	Choke	Standard	Oil	Oil	
Large Vertical	31R9	500	90.5 x 77.8	2.9	1.4	1.4	479 x 393 x 327	2.9	4	Choke	Standard	Oil	Oil	
Large Vertical	33R8	500	90.5 x 77.8	2.9	1.4	1.4	479 x 393 x 327	2.9	4	Choke	Standard	Oil	Oil	
Large Vertical	40N8	656	75.4 x 73.4	3.6	1.9	1.9	484 x 462 x 363	3.6	4	Choke	Standard	Oil	Oil	
Large Vertical	40N8	656	75.4 x 73.4	3.6	1.9	1.9	484 x 462 x 363	3.6	4	Choke	Standard	Oil	Oil	
Large Vertical	40N8	656	75.4 x 73.4	3.6	1.9	1.9	484 x 462 x 363	3.6	4	Choke	Standard	Oil	Oil	
Large Vertical	44N6	724	79.2 x 73.4	3.6	1.9	1.9	484 x 462 x 363	3.6	4	Choke	Standard	Oil	Oil	
Large Vertical	44N6	724	79.2 x 73.4	3.6	1.9	1.9	484 x 462 x 363	3.6	4	Choke	Standard	Oil	Oil	
Large Vertical	44N6	724	79.2 x 73.4	3.6	1.9	1.9	484 x 462 x 363	3.6	4	Choke	Standard	Oil	Oil	
Large Vertical	44T8	724	79.2 x 73.4	3.6	1.9	1.9	484 x 462 x 363	3.6	4	Choke	Standard	Oil	Oil	
Large Vertical	10U2	163	68.0 x 40.0	3.1	15.0	0.6	291 x 368 x 330	3.1	2	Choke	Standard	Oil	Oil	
Large Vertical	13U2	208	70.0 x 54.0	3.1	15.1	0.6	291 x 372 x 330	3.1	2	Choke	Standard	Oil	Oil	
Large Vertical	10R2	163	68.0 x 40.0	3.0	15.0	0.6	291 x 368 x 330	3.0	2	Choke	Standard	Oil	Oil	
Large Vertical	13R2	208	70.0 x 54.0	3.0	15.1	0.6	291 x 372 x 330	3.0	2	Choke	Standard	Oil	Oil	
Large Vertical	750	1021	163	68.0 x 40.0	3.0	17.8	0.6	274 x 368 x 330	3.0	2	Choke	Standard	Oil	Oil
Large Vertical	950	1341	200	70.0 x 54.0	3.0	19.2	0.6	274 x 450 x 358	3.0	2	Choke	Standard	Oil	Oil
Large Vertical	1150	1921	250	75.35 x 55.88	3.0	17.7	0.6	289 x 450 x 389	3.0	2	Choke	Standard	Oil	Oil
Large Vertical	1450	2501	306	82.0 x 58.0	3.0	28.5	1.1	325 x 495 x 495	3.0	2	Choke	Standard	Oil	Oil
Large Vertical	2100	3941	420	98.9 x 65.8	3.0	38.2	1.1	371 x 538 x 442	3.0	2	Choke	Standard	Oil	Oil



**WELCOME TO THE NEXT GENERATION OF SIMPLE MOWER STORAGE**

- SPACE SAVING STORAGE
- EASY CLEAN POSITION
- COMPACT TRANSPORTATION

**TAKES UP TO 70% LESS SPACE!!**



**EXI THE NEW EASY**

- LIGHT & COMPACT DESIGN**  
It is the lightest engine in its class, making it easy to use, manoeuvre and store.
- SIMPLE TO SERVICE & MAINTAIN**  
Simple maintenance features like tool-less filters and air cleaners combined with precision engineering means the EXI SERIES needs no oil change – just check and add as needed.
- LOW NOISE & VIBRATION**  
An advanced powerful OHV platform that runs quietly and smoothly.
- STARTING INNOVATION**  
The ReadyStart® system eliminates the need to manually prime or choke the engine before starting. The new InStart® system is also available.
- OPTIMUM POWER / WEIGHT PERFORMANCE**  
The EXI SERIES delivers the optimum power to weight ratio.