



Kawasaki engines are backed by a three-year limited warranty, and one of the fastest, most comprehensive parts and service networks in the industry. For complete warranty information, visit kawasakienginesusa.com/kawasaki-warranties.



Kawasaki Critical Power engines are horsepower-rated to SAE J2723, the tightest standard in the industry, and third-party verified for accuracy and consistency. You rely on reliable, accurate power to get your job done. Kawasaki makes sure you get it.



Breakthrough electronic fuel injection integrates load-sensing speed command, sequential-firing injectors, advanced ECU control and instant throttle response to hold optimum blade tip speed under all conditions. Now nothing holds you back. Limited availability.

Kawasaki
Engines

POWER THROUGH IT.

LET'S TALK POWER.

Kawasaki is the #1 engine choice of turf pros*. Kawasaki horsepower is the only SAE Certified power in the industry, for real-world performance you can count on. Kawasaki's massive service network, fast parts delivery, and strong warranties mean nothing can hold you back. When you're talking working power, we speak your language.

*According to surveys of lawn care pros conducted in 2012 by Isometric Solutions and in 2013 by Orman Guidance Research, independent market research firms commissioned by Kawasaki Motors Corp., U.S.A.

Authorized KAWASAKI Dealer

P/N 99969-1212P

©2014 KAWASAKI MOTORS CORP., U.S.A.
PRINTED IN THE U.S.A.

WWW.KAWASAKIENGINESUSA.COM



MIX
Paper from
responsible sources
FSC® C005259

Kawasaki
Engines | POWER THROUGH IT.

Kawasaki | **ENGINES 2015**



POWER SPOKEN HERE.

This business runs on ambition and power. The ambition is all you. The power comes from us: reliable, durable, value-packed Kawasaki turf engines. Horsepower-certified by SAE, backed by a rock-solid warranty and parts/service network, it's the engine designed and built to drive lawn care success. Pros consistently judge Kawasaki the #1 mower engine. In fact, 3 out of 4 turf professionals surveyed called Kawasaki the best engine, no matter what mower brand they actually use.* That kind of respect is more than just words.

*According to surveys of lawn care pros conducted in 2012 by Isometric Solutions and in 2013 by Orman Guidance Research, independent market research firms commissioned by Kawasaki Motors Corp., U.S.A.

CONTENTS

Liquid Cooled Gasoline Engines	
FD Series V-Twin	8–11
Air Cooled Gas/Propane Engines	
FH KAI™ V-Twin	12–13
FJ/FJ KAI Single	14–15
FR Series V-Twin	16–21
FS Series V-Twin	22–28
FS-EFI	29
FX Series V-Twin	30–41
FX Series DFI V-Twin	42–44
FX Propane V-Twin	45
Kawasaki Genuine Parts	46–47
Tune-Up Kit Compatability	48
Short Block Assemblies	49
Engineered. Not Just Assembled.	50
Complete Line of Engines	51–52

■ CRITICAL ■ POWER

PROMISED AND DELIVERED.



Kawasaki is the only turf engine that's SAE Certified for consistent, accurate horsepower. Critical Power is rated per SAE J2723, the tightest standard in the industry, so you get all the hard-working power you expect. Kawasaki is the first turf engine to apply such a high standard, the first to achieve third-party power verification, and still the only SAE Certified turf engine. We insist on the best. Just like our customers.



An SAE International Standard

Critical Power Engines

Only Kawasaki Critical Power engines listed in this brochure have been tested in accordance with SAE J1995, verified by TÜV Rheinland Group, horsepower-rated in accordance with SAE J2723, and certified by SAE International. Torque ratings of these engines were not certified by SAE. Actual power and torque output will vary depending on numerous factors, including, but not limited to, the operating speed of the engine in application, environmental conditions, maintenance, and other variables.

Non-Critical Power Engines

The gross power ratings of these engines are referenced for OEM customers. Kawasaki does not intend this information to accompany the engine and/or the lawnmower at the time of retail sale to a consumer. The gross power ratings were determined by using measurements according to SAE J1995 as rated by Kawasaki, not witnessed by a third party tester. Actual power output will vary depending on numerous factors, including, but not limited to, the operating speed of the engine in application, environmental conditions, maintenance, and other variables.



PEOPLE WHO KNOW WHAT HEAVY-DUTY MEANS.

95% of Kawasaki turf engines used around the world are assembled from foreign and domestic components at Kawasaki Motors Manufacturing Corp., U.S.A. in Maryville, Missouri, by people who've grown up with heavy equipment, open spaces and the skill to get things done right. From raw ingots of aluminum, through casting, machining, assembling and testing, Kawasaki engines attain a

level of performance that's extraordinary, but fully expected here. Everyone who assembles an engine also inspects it, and is empowered to pass, correct or reject anything at any point. At the end of the line each engine is fired up, run and tested, then individually fine-tuned to OEM specs. The result is a powerplant that is legendary for reliability. Not unlike the people who assemble it.



FD Series engines are high-torque powerplants with a compact footprint that's ideal for small-space installations. Efficient liquid cooling disperses heat in tight engine bays, light weight enhances equipment handling for nimble operation, and overhead V-valves, full pressure lubrication, and cast-iron cylinder liners help ensure long, productive life in heavy use.

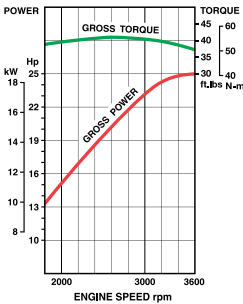
- Zero-turn and stand-on riders
- Generators and pumps
- Lawn and garden tractors
- Construction and industrial equipment: scissor lifts, trenchers, trash pumps
- Utility vehicles

FD750D / 25.0 HP



ENGINE TYPE	Liquid-Cooled V-twin 4-cycle Horizontal Shaft OHV Gasoline Engine
Number of Cylinders	2
Bore x Stroke	3.07 x 3.07 in. (78 x 78mm)
Displacement	745cc (45.5 cu. in.)
Compression Ratio	8.6:1
Maximum Power	25.0hp (18.7 kW) / 3600 rpm
Maximum Torque	41 ft. lbs. (55.6 N•m) / 2600 rpm
Oil Capacity	2.1 U.S. qt. (2.0 liter) w/Filter
Dry Weight (without muffler)	122 lbs. (55.3kg)

- 90° V-twin
- Electronic spark ignition
- Oil pressure switch
- Twin barrel carburetor w/ fuel shut-off solenoid
- Water temperature switch
- Multi-position, dual element air cleaner
- Magneto spark ignition

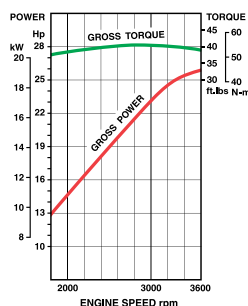


CRITICAL
POWER

FD851D-DFI / 31.0 HP

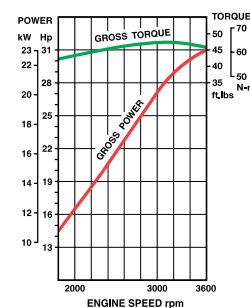
ENGINE TYPE	Liquid-Cooled V-twin 4-cycle, Digital Fuel Injected, Horizontal Shaft OHV Gasoline Engine
Number of Cylinders	2
Bore x Stroke	3.07 x 3.07 in. (78 x 78mm)
Displacement	745cc (45.5 cu. in.)
Compression Ratio	9.0:1
Maximum Power	26.0hp (19.4 kW) / 3600 rpm
Maximum Torque	40.5 ft. lbs. (54.9 N•m) / 2800 rpm
Oil Capacity	2.1 U.S. qt. (2.0 liter) w/Filter
Dry Weight (without muffler)	122 lbs. (55.3kg)

- 90° V-twin
- Multi-port digital fuel injection
- Compact electronic control unit
- Choke-free operation
- Electronic cold operation enrichment
- Electronic altitude compensation
- High pressure electronic fuel pump
- Water temperature switch
- Magneto spark ignition



ENGINE TYPE	Liquid-Cooled V-twin 4-cycle, Digital Fuel Injected, Horizontal Shaft OHV Gasoline Engine
Number of Cylinders	2
Bore x Stroke	3.2 x 3.1 in. (82 x 78mm)
Displacement	824cc (50.3 cu. in.)
Compression Ratio	9.0:1
Maximum Power	31.0hp (23.1 kW) / 3600 rpm
Maximum Torque	47.1 ft. lbs. (63.9 N•m) / 3200 rpm
Oil Capacity	2.1 U.S. qt. (2.0 liter) w/Filter
Dry Weight (without muffler)	126.8 lbs. (57.5kg)

- 90° V-twin
- Multi-port digital fuel injection
- Compact electronic control unit
- Choke-free operation
- Electronic cold operation enrichment
- Electronic altitude compensation
- High pressure electronic fuel pump
- Water temperature switch
- Electronic ignition w/spark advancement



FD791D-DFI / 26.0 HP



**CRITICAL
POWER**

**CRITICAL
POWER**



The FH KAI™ is engineered around OEM input and direct user feedback, resulting in an engine ideal for landscapers: rugged, powerful, easy to start. Equipped with V-valve technology, heavy-duty air cleaners and blower housings, internally vented carburetors, advanced lubrication systems and more, it's the bedrock engine for grounds-keeping work.

- Riding mowers
- Walk-behind mowers

FH770D KAI™



ENGINE TYPE	Forced Air-Cooled V-twin 4-cycle Horizontal Shaft OHV Gasoline Engine
Number of Cylinders	2
Bore x Stroke	3.15 x 2.99 in. (80 x 76mm)
Displacement	764cc (46.6 cu. in.)
Compression Ratio	8.1:1
Oil Capacity	2.0 U.S. qt. (1.9 liter) w/Filter
Dry Weight (without muffler)	98.1 lbs. (44.5kg)

- 90° V-twin
- Electronic spark ignition
- Oil cooler
- Cast-iron cylinder liners
- Automatic compression release
- Multi-position air cleaner cover
- Rotating grass screen



Compact, lightweight, quiet and clean-running, FJ engines are ideal for smaller machines and applications where reliability, operator comfort and convenience are paramount. FJ KAI™ engines are designed for professionals, with a commercial-grade air cleaner and blower housing, heavy-duty recoil assembly, and beefed-up ball-bearing crankshaft support that improves performance and durability.

- Turf and golf
- Agricultural and industrial
- Construction
- Walk-behind mowers

FJ180V



ENGINE TYPE	Forced Air-Cooled 4-cycle Vertical Shaft OHV Gasoline Engine
Number of Cylinders	1
Bore x Stroke	2.6 x 2.1 in. (65 x 54mm)
Displacement	179cc (10.9 cu. in.)
Compression Ratio	8.5:1
Fuel Tank Capacity	1.9 U.S. qt. (1.8 liter) Standard
Oil Capacity	0.6 U.S. qt. (0.6 liter)
Dry Weight	29.8 lbs. (13.5kg)

- Dual element air cleaner
- Flywheel magneto transistor ignition
- Recoil starter with automatic compression release
- Dual element air cleaner
- Low-toner muffler with guard
- Fuel shut-off valve
- Cast iron cylinder liner

FJ180V KAI™



ENGINE TYPE	Forced Air-Cooled 4-cycle Vertical Shaft OHV Gasoline Engine
Number of Cylinders	1
Bore x Stroke	2.6 x 2.1 in. (65 x 54mm)
Displacement	179cc (10.9 cu. in.)
Compression Ratio	8.5:1
Fuel Tank Capacity	1.9 U.S. qt. (1.8 liter) Standard
Oil Capacity	0.6 U.S. qt. (0.6 liter) w/Filter
Dry Weight	29.8 lbs. (13.5kg)

- Pressurized lubrication
- Electronic spark ignition
- Automatic compression release
- Dual element air cleaner
- Rotating grass screen
- Cast-iron cylinder liner and chrome plated piston rings
- Combined crankcase design
- Large sealed fan



FR Series engines are the perfect blend of muscle, economy and efficiency for the serious homeowner and handyman. They deliver serious power for heavy chores, compact design for nimble operation, and durability you can count on for the long haul. When it comes to getting things done, this is the engine that brings professional quality home.

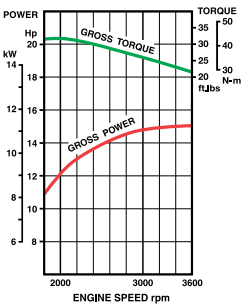
- Zero-turn mowers
- Lawn and garden tractors

FR541V / 15.0 HP



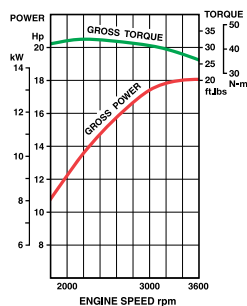
ENGINE TYPE	Forced Air-Cooled V-twin 4-cycle Vertical Shaft OHV Gasoline Engine
Number of Cylinders	2
Bore x Stroke	2.9 x 2.8 in. (73 x 72mm)
Displacement	603cc (36.8 cu. in.)
Compression Ratio	8.1:1
Maximum Power	15.0hp (11.2kW) / 3600 rpm
Maximum Torque	31.7 ft. lbs. (43.0 N•m) / 2000 rpm
Oil Capacity	1.8 U.S. qt. (1.7 liter) w/Filter
Dry Weight	80.9 lbs. (36.7kg)

- 90° V-twin
- Pressurized lubrication system
- Electronic spark ignition
- Automatic compression release
- Single-stage air filter
- Cast-iron cylinder liners
- Rotating grass screen



ENGINE TYPE	Forced Air-Cooled V-twin 4-cycle Vertical Shaft OHV Gasoline Engine
Number of Cylinders	2
Bore x Stroke	2.9 x 2.8 in. (73 x 72mm)
Displacement	603cc (36.8 cu. in.)
Compression Ratio	8.1:1
Maximum Power	18.0hp (13.4kW) / 3600 rpm
Maximum Torque	32.4 ft. lbs. (44.0 N•m) / 2200 rpm
Oil Capacity	1.8 U.S. qt. (1.7 liter) w/Filter
Dry Weight	80.9 lbs. (36.7kg)

- 90° V-twin
- Pressurized lubrication system
- Electronic spark ignition
- Automatic compression release
- Single-stage air filter
- Cast-iron cylinder liners
- Rotating grass screen



FR600V / 18.0 HP



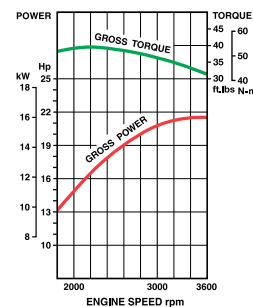
**CRITICAL
POWER**

FR651V / 21.5 HP



ENGINE TYPE	Forced Air-Cooled V-twin 4-cycle Vertical Shaft OHV Gasoline Engine
Number of Cylinders	2
Bore x Stroke	3.1 x 3.0 in. (78 x 76mm)
Displacement	726cc (44.3 cu. in.)
Compression Ratio	8.2:1
Maximum Power	21.5hp (16.0kW) / 3600 rpm
Maximum Torque	39.3 ft. lbs. (53.3 N•m) / 2200 rpm
Oil Capacity	2.2 U.S. qt. (2.1 liter) w/Filter
Dry Weight (without muffler)	89.0 lbs. (40.4kg)

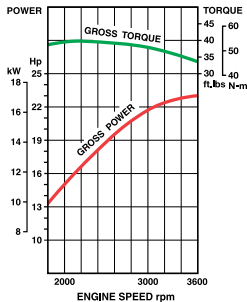
- 90° V-twin
- Pressurized lubrication system
- Electronic spark ignition
- Automatic compression release
- Single-stage air filter
- Cast-iron cylinder liners
- Rotating metal grass
chopper screen



**CRITICAL
POWER**

ENGINE TYPE	Forced Air-Cooled V-twin 4-cycle Vertical Shaft OHV Gasoline Engine
Number of Cylinders	2
Bore x Stroke	3.1 x 3.0 in. (78 x 76mm)
Displacement	726cc (44.3 cu. in.)
Compression Ratio	8.2:1
Maximum Power	23.0hp (17.2kW) / 3600 rpm
Maximum Torque	39.5 ft. lbs. (53.6 N•m) / 2200 rpm
Oil Capacity	2.2 U.S. qt. (2.1 liter) w/Filter
Dry Weight (without muffler)	89.0 lbs. (40.4kg)

- 90° V-twin
- Pressurized lubrication system
- Electronic spark ignition
- Automatic compression release
- Single-stage air filter
- Cast-iron cylinder liners
- Rotating metal grass chopper screen

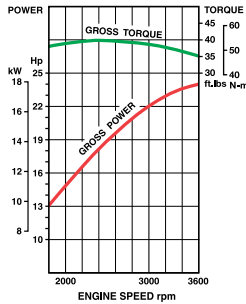


FR730V / 24.0 HP



ENGINE TYPE	Forced Air-Cooled V-twin 4-cycle Vertical Shaft OHV Gasoline Engine
Number of Cylinders	2
Bore x Stroke	3.1 x 3.0 in. (78 x 76mm)
Displacement	726cc (44.3 cu. in.)
Compression Ratio	8.2:1
Maximum Power	24.0hp (17.9kW) / 3600 rpm
Maximum Torque	39.7 ft. lbs. (53.9 N•m) / 2200 rpm
Oil Capacity	2.2 U.S. qt. (2.1 liter) w/Filter
Dry Weight (without muffler)	89.0 lbs. (40.4kg)

- 90° V-twin
- Pressurized lubrication system
- Electronic spark ignition
- Automatic compression release
- Single-stage air filter
- Cast-iron cylinder liners
- Rotating metal grass chopper screen



FR691V / 23.0 HP



CRITICAL
POWER

CRITICAL
POWER



FS Series engines deliver robust performance to help make heavy landscape work a little easier. They're engineered to start fast, run smooth and quiet, survive the grit and grime of heavy labor, and keep your equipment working season after season for optimum productivity and maximum payback.

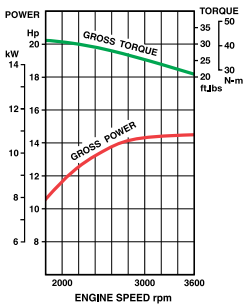
- Zero-turn riders
- Lawn and garden tractors
- Wide-area walk-behind mowers

FS481V / 14.5 HP



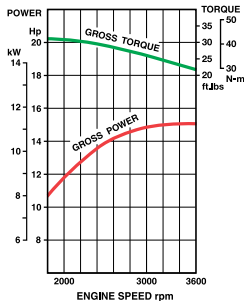
ENGINE TYPE	Forced Air-Cooled V-twin 4-cycle Vertical Shaft OHV Gasoline Engine
Number of Cylinders	2
Bore x Stroke	2.9 x 2.8 in. (73 x 72mm)
Displacement	603cc (36.8 cu. in.)
Compression Ratio	8.1:1
Maximum Power	14.5hp (10.8kW) / 3600 rpm
Maximum Torque	30.9 ft. lbs. (42.0 N•m) / 1800 rpm
Oil Capacity	1.8 U.S. qt. (1.7 liter) w/Filter
Dry Weight (no muffler)	80.9 lbs. (36.7kg)

- 90° V-twin
- Pressurized lubrication system
- Electronic spark ignition
- Automatic compression release
- Dual element air filter
- Cast-iron cylinder liners
- Rotating metal grass chopper screen



ENGINE TYPE	Forced Air-Cooled V-twin 4-cycle Vertical Shaft OHV Gasoline Engine
Number of Cylinders	2
Bore x Stroke	2.9 x 2.8 in. (73 x 72mm)
Displacement	603cc (36.8 cu. in.)
Compression Ratio	8.1:1
Maximum Power	15.0hp (11.2kW) / 3600 rpm
Maximum Torque	31.0 ft. lbs. (42.1 N•m) / 1800 rpm
Oil Capacity	1.8 U.S. qt. (1.7 liter) w/Filter
Dry Weight (without muffler)	80.9 lbs. (36.7kg)

- 90° V-twin
- Pressurized lubrication system
- Electronic spark ignition
- Automatic compression release
- Dual element air filter
- Cast-iron cylinder liners
- Rotating metal grass chopper screen

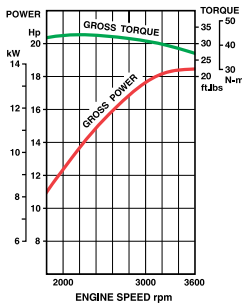


FS600V / 18.5 HP



ENGINE TYPE	Forced Air-Cooled V-twin 4-cycle Vertical Shaft OHV Gasoline Engine
Number of Cylinders	2
Bore x Stroke	2.9 x 2.8 in. (73 x 72mm)
Displacement	603cc (36.8 cu. in.)
Compression Ratio	8.1:1
Maximum Power	18.5hp (13.8kW) / 3600 rpm
Maximum Torque	32.5 ft. lbs. (44.1 N•m) / 2000 rpm
Oil Capacity	1.8 U.S. qt. (1.7 liter) w/Filter
Dry Weight (without muffler)	80.9 lbs. (36.7kg)

- 90° V-twin
- Pressurized lubrication system
- Electronic spark ignition
- Automatic compression release
- Dual element air filter
- Cast-iron cylinder liners
- Rotating metal grass chopper screen

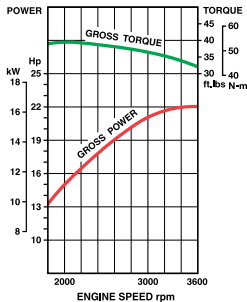


FS541V / 15.0 HP



ENGINE TYPE	Forced Air-Cooled V-twin 4-cycle Vertical Shaft OHV Gasoline Engine
Number of Cylinders	2
Bore x Stroke	3.1 x 3.0 in. (78 x 76mm)
Displacement	726cc (44.3 cu. in.)
Compression Ratio	8.2:1
Maximum Power	22.0hp (16.4kW) / 3600 rpm
Maximum Torque	39.4 ft. lbs. (53.3 N•m) / 2000 rpm
Oil Capacity	2.2 U.S. qt. (2.1 liter) w/Filter
Dry Weight (without muffler)	91.5 lbs. (41.5kg)

- 90° V-twin
- Pressurized lubrication system
- Electronic spark ignition
- Automatic compression release
- Dual element air filter
- Cast-iron cylinder liners
- Rotating metal grass chopper screen

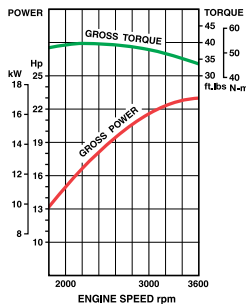


FS691V / 23.0 HP



ENGINE TYPE	Forced Air-Cooled V-twin 4-cycle Vertical Shaft OHV Gasoline Engine
Number of Cylinders	2
Bore x Stroke	3.1 x 3.0 in. (78 x 76mm)
Displacement	726cc (44.3 cu. in.)
Compression Ratio	8.2:1
Maximum Power	23.0hp (17.2kW) / 3600 rpm
Maximum Torque	39.9 ft. lbs. (54.1 N•m) / 2200 rpm
Oil Capacity	2.2 U.S. qt. (2.1 liter) w/Filter
Dry Weight (without muffler)	91.5 lbs. (41.5kg)

- 90° V-twin
- Pressurized lubrication system
- Electronic spark ignition
- Automatic compression release
- Dual element air filter
- Cast-iron cylinder liners
- Rotating metal grass chopper screen

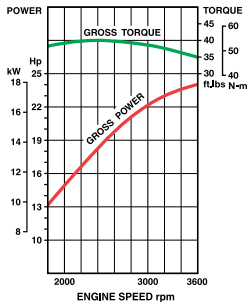


FS651V / 22.0 HP



ENGINE TYPE	Forced Air-Cooled V-twin 4-cycle Vertical Shaft OHV Gasoline Engine
Number of Cylinders	2
Bore x Stroke	3.1 x 3.0 in. (78 x 76mm)
Displacement	726cc (44.3 cu. in.)
Compression Ratio	8.2:1
Maximum Power	24.0hp (17.9kW) / 3600 rpm
Maximum Torque	40.0 ft. lbs. (54.2 N•m) / 2400 rpm
Oil Capacity	2.2 U.S. qt. (2.1 liter) w/Filter
Dry Weight (without muffler)	91.5 lbs. (41.5kg)

- 90° V-twin
- Pressurized lubrication system
- Electronic spark ignition
- Automatic compression release
- Dual element air filter
- Cast-iron cylinder liners
- Rotating metal grass chopper screen

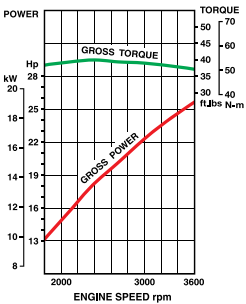


FS730V-EFI / 25.5 HP



ENGINE TYPE	Forced Air-Cooled V-twin 4-cycle Vertical Shaft OHV Gasoline Engine
Number of Cylinders	2
Bore x Stroke	3.1 x 3.0 in. (78 x 76mm)
Displacement	726cc (44.3 cu. in.)
Compression Ratio	8.2:1
Maximum Power	25.5hp (19.0kW) / 3600 rpm
Maximum Torque	40.0 ft. lbs. (54.2 N•m) / 2400 rpm
Oil Capacity	2.2 U.S. qt. (2.1 liter) w/Filter
Dry Weight (without muffler)	91.5 lbs. (41.5kg)

- 90° V-twin
- Pressurized lubrication system
- Electronic ignition with spark advancement
- Automatic compression release
- Multi-port electronic fuel injection
- Electronic governor control
- Compact electronic control unit
- Choke-free operation
- Electronic colder operation enrichment
- Electronic altitude compensation
- High pressure fuel injection technology with electronic fuel pump
- Cast-iron cylinder liners



FS730V / 24.0 HP



CRITICAL
POWER

CRITICAL
POWER



FX Series engines are top of the line, for jobs that accept nothing less. They're engineered for the most demanding applications, built to the most exact tolerances, and offer a wide choice of models to deliver precisely the horsepower and torque you need for specific tasks. Their compact footprint fits your equipment for easier installation, and 100% heavy-duty components ensure long-term durability.

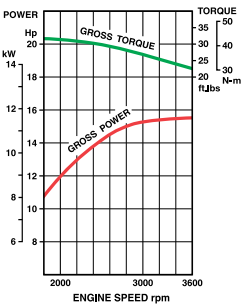
- Commercial mowers
- Heavy-duty industrial and construction equipment



FX481V / 15.5 HP

ENGINE TYPE	Forced Air-Cooled V-twin 4-cycle Vertical Shaft OHV Gasoline Engine
Number of Cylinders	2
Bore x Stroke	2.9 x 2.8 in. (73 x 72mm)
Displacement	603cc (36.8 cu. in.)
Compression Ratio	8.1:1
Maximum Power	15.5hp (11.6kW) / 3600 rpm
Maximum Torque	31.4 ft. lbs. (42.6 N•m) / 1800 rpm
Oil Capacity	1.8 U.S. qt. (1.7 liter) w/Filter
Dry Weight	89.7 lbs. (36.7kg)

- 90° V-twin
- Pressurized lubrication system
- Electronic spark ignition
- Automatic compression release
- Dual stage canister air filter
- Cast-iron cylinder liners
- Rotating metal grass chopper screen
- Metal engine cover
- Heavy-duty shift-type starter





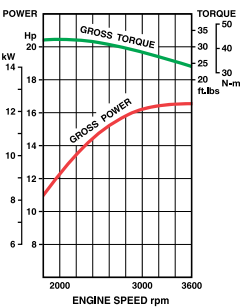
FX541V / 16.5 HP



FX600V / 19.0 HP

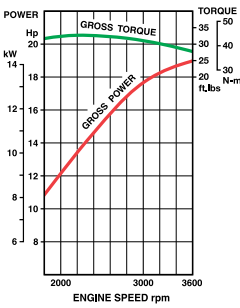
ENGINE TYPE	Forced Air-Cooled V-twin 4-cycle Vertical Shaft OHV Gasoline Engine
Number of Cylinders	2
Bore x Stroke	2.9 x 2.8 in. (73 x 72mm)
Displacement	603cc (36.8 cu. in.)
Compression Ratio	8.1:1
Maximum Power	16.5hp (12.3kW) / 3600 rpm
Maximum Torque	32.1 ft. lbs. (43.4 N•m) / 2000 rpm
Oil Capacity	1.8 U.S. qt. (1.7 liter) w/Filter
Dry Weight	89.7 lbs. (36.7kg)

- 90° V-twin
- Pressurized lubrication system
- Electronic spark ignition
- Automatic compression release
- Dual stage canister air filter
- Cast-iron cylinder liners
- Rotating metal grass chopper screen
- Metal engine cover
- Heavy-duty shift-type starter



ENGINE TYPE	Forced Air-Cooled V-twin 4-cycle Vertical Shaft OHV Gasoline Engine
Number of Cylinders	2
Bore x Stroke	2.9 x 2.8 in. (73 x 72mm)
Displacement	603cc (36.8 cu. in.)
Compression Ratio	8.1:1
Maximum Power	19.0hp (14.2kW) / 3600 rpm
Maximum Torque	32.5 ft. lbs. (44.1 N•m) / 2200 rpm
Oil Capacity	1.8 U.S. qt. (1.7 liter) w/Filter
Dry Weight	89.7 lbs. (36.7kg)

- 90° V-twin
- Pressurized lubrication system
- Electronic spark ignition
- Automatic compression release
- Dual stage canister air filter
- Cast-iron cylinder liners
- Rotating metal grass chopper screen
- Metal engine cover
- Heavy-duty shift-type starter





FX651V / 20.5 HP

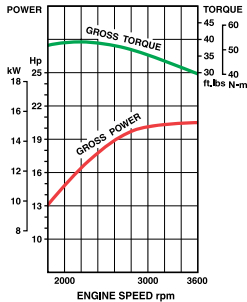


FX691V / 22.0 HP

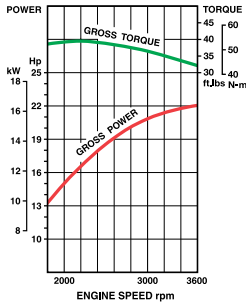
ENGINE TYPE	Forced Air-Cooled V-twin 4-cycle Vertical Shaft OHV Gasoline Engine
Number of Cylinders	2
Bore x Stroke	3.1 x 3.0 in. (78 x 76mm)
Displacement	726cc (44.3 cu. in.)
Compression Ratio	8.2:1
Maximum Power	20.5hp (15.3kW) / 3600 rpm
Maximum Torque	39.0 ft. lbs. (52.9 N•m) / 2200 rpm
Oil Capacity	2.2 U.S. qt. (2.1 liter) w/Filter
Dry Weight	102.7 lbs. (46.6kg)

ENGINE TYPE	Forced Air-Cooled V-twin 4-cycle Vertical Shaft OHV Gasoline Engine
Number of Cylinders	2
Bore x Stroke	3.1 x 3.0 in. (78 x 76mm)
Displacement	726cc (44.3 cu. in.)
Compression Ratio	8.2:1
Maximum Power	22.0hp (16.4kW) / 3600 rpm
Maximum Torque	39.4 ft. lbs. (53.4 N•m) / 2200 rpm
Oil Capacity	2.2 U.S. qt. (2.1 liter) w/Filter
Dry Weight	102.7 lbs. (46.6kg)

- 90° V-twin
- Pressurized lubrication system
- Electronic spark ignition
- Automatic compression release
- Dual stage canister air filter
- Cast-iron cylinder liners
- Rotating metal grass chopper screen
- Metal engine cover
- Heavy-duty shift-type starter



- 90° V-twin
- Pressurized lubrication system
- Electronic spark ignition
- Automatic compression release
- Dual stage canister air filter
- Cast-iron cylinder liners
- Rotating metal grass chopper screen
- Metal engine cover
- Heavy-duty shift-type starter





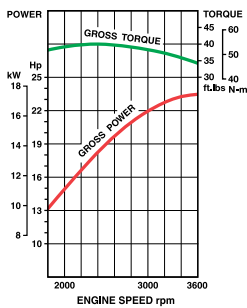
FX730V / 23.5 HP



FX751V / 24.5 HP

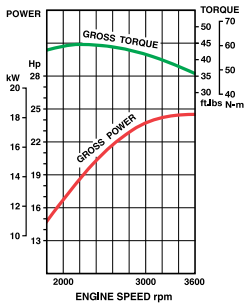
ENGINE TYPE	Forced Air-Cooled V-twin 4-cycle Vertical Shaft OHV Gasoline Engine
Number of Cylinders	2
Bore x Stroke	3.1 x 3.0 in. (78 x 76mm)
Displacement	726cc (44.3 cu. in.)
Compression Ratio	8.2:1
Maximum Power	23.5hp (17.5kW) / 3600 rpm
Maximum Torque	39.9 ft. lbs. (54.1 N•m) / 2400 rpm
Oil Capacity	2.2 U.S. qt. (2.1 liter) w/Filter
Dry Weight	102.7 lbs. (46.6kg)

- 90° V-twin
- Pressurized lubrication system
- Electronic spark ignition
- Automatic compression release
- Dual stage canister air filter
- Cast-iron cylinder liners
- Rotating metal grass chopper screen
- Metal engine cover
- Heavy-duty shift-type starter



ENGINE TYPE	Forced Air-Cooled V-twin 4-cycle Vertical Shaft OHV Gasoline Engine
Number of Cylinders	2
Bore x Stroke	3.33 x 2.99 in. (84.5 x 76mm)
Displacement	852cc (52 cu. in.)
Compression Ratio	8.2:1
Maximum Power	24.5hp (18.3kW) / 3600 rpm
Maximum Torque	44.4 ft. lbs. (60.2 N•m) / 2200 rpm
Oil Capacity	2.1 U.S. qt. (2.0 liter) w/Filter
Dry Weight	105.0 lbs. (47.6kg)

- 90° V-twin
- Pressurized lubrication system
- Electronic spark ignition
- Automatic compression release
- Dual stage canister air filter
- Cast-iron cylinder liners
- Rotating metal grass chopper screen
- Metal engine cover
- Heavy-duty shift-type starter
- High efficiency oil cooler





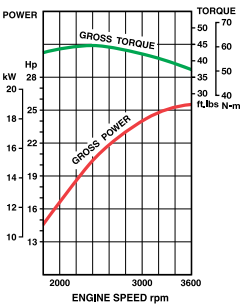
FX801V / 25.5 HP



FX850V / 27.0 HP

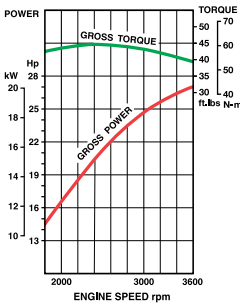
ENGINE TYPE	Forced Air-Cooled V-twin 4-cycle Vertical Shaft OHV Gasoline Engine
Number of Cylinders	2
Bore x Stroke	3.33 x 2.99 in. (84.5 x 76mm)
Displacement	852cc (52 cu. in.)
Compression Ratio	8.2:1
Maximum Power	25.5hp (19.0kW) / 3600 rpm
Maximum Torque	44.6 ft. lbs. (60.5 N•m) / 2400 rpm
Oil Capacity	2.1 U.S. qt. (2.0 liter) w/Filter
Dry Weight	105.0 lbs. (47.6kg)

- 90° V-twin
- Pressurized lubrication system
- Electronic spark ignition
- Automatic compression release
- Dual stage canister air filter
- Cast-iron cylinder liners
- Rotating metal grass chopper screen
- Metal engine cover
- Heavy-duty shift-type starter
- High efficiency oil cooler



ENGINE TYPE	Forced Air-Cooled V-twin 4-cycle Vertical Shaft OHV Gasoline Engine
Number of Cylinders	2
Bore x Stroke	3.33 x 2.99 in. (84.5 x 76mm)
Displacement	852cc (52 cu. in.)
Compression Ratio	8.2:1
Maximum Power	27.0hp (20.1kW) / 3600 rpm
Maximum Torque	44.6 ft. lbs. (60.5 N•m) / 2400 rpm
Oil Capacity	2.1 U.S. qt. (2.0 liter) w/Filter
Dry Weight	105.0 lbs. (47.6kg)

- 90° V-twin
- Pressurized lubrication system
- Electronic spark ignition
- Automatic compression release
- Dual stage canister air filter
- Cast-iron cylinder liners
- Rotating metal grass chopper screen
- Metal engine cover
- Heavy-duty shift-type starter
- High efficiency oil cooler





FX921V / 31.0 HP

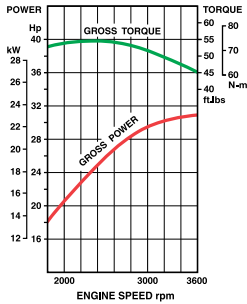


FX1000V / 35.0 HP

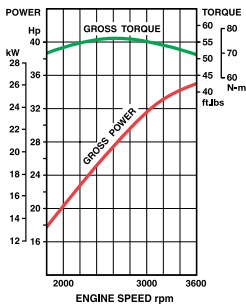
ENGINE TYPE	Forced Air-Cooled V-twin 4-cycle Vertical Shaft OHV Gasoline Engine
Number of Cylinders	2
Bore x Stroke	3.5 x 3.15 in. (89.15 x 80mm)
Displacement	999cc (61 cu. in.)
Compression Ratio	8.4:1
Maximum Power	31.0hp (23.1kW) / 3600 rpm
Maximum Torque	54.3 ft. lbs. (73.6 N•m) / 2400 rpm
Oil Capacity	1.9 U.S. qt. (1.7 liter) w/Filter
Dry Weight	138.0 lbs. (62.6kg)

ENGINE TYPE	Forced Air-Cooled V-twin 4-cycle Vertical Shaft OHV Gasoline Engine
Number of Cylinders	2
Bore x Stroke	3.5 x 3.15 in. (89.15 x 80mm)
Displacement	999cc (61 cu. in.)
Compression Ratio	8.4:1
Maximum Power	35.0hp (26.1kW) / 3600 rpm
Maximum Torque	56.0 ft. lbs. (75.9 N•m) / 2800 rpm
Oil Capacity	2.0 U.S. qt. (1.9 liter) w/Filter
Dry Weight	138.0 lbs. (62.6kg)

- 90° V-twin
- Pressurized lubrication system
- Electronic spark ignition
- Automatic compression release
- Dual stage canister air filter
- Cast-iron cylinder liners
- Rotating metal grass chopper screen
- Metal engine cover
- Heavy-duty shift-type starter
- High efficiency oil cooler
- Three Valves per cylinder



- 90° V-twin
- Pressurized lubrication system
- Electronic spark ignition
- Automatic compression release
- Dual stage canister air filter
- Cast-iron cylinder liners
- Rotating metal grass chopper screen
- Metal engine cover
- Heavy-duty shift-type starter
- High efficiency oil cooler
- Three Valves per cylinder





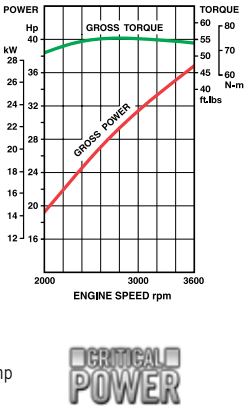
The FX Series DFI engine brings Digital Fuel Injection response, fuel efficiency, and reliability to the toughest, most reliable constant-speed engines you can get. All the features that make FX Engines the ultimate turf industry workhorse are here—and with no choke to adjust, no carburetor to maintain, and no worries about temperature, elevation or humidity, you can focus on getting the work done.

- Commercial mowers
- Heavy-duty industrial and construction equipment



ENGINE TYPE	Forced Air-Cooled V-twin 4-cycle Digital Fuel Injected, Vertical Shaft OHV Gasoline Engine
Number of Cylinders	2
Bore x Stroke	3.5 x 3.15 in. (89.15 x 80mm)
Displacement	999cc (61 cu. in.)
Compression Ratio	8.4:1
Maximum Power	37.0hp (27.6kW) / 3600 rpm
Maximum Torque	55.4 ft. lbs. (75.2 N•m) / 2800 rpm
Oil Capacity	1.8 U.S. qt. (1.7 liter) w/Filter
Dry Weight	138.0 lbs. (62.6kg)

- 90° V-twin
- Pressurized lubrication system
- Electronic ignition with spark advancement
- Automatic compression release
- Multi-port digital fuel injection
- Electronic governor control
- Compact electronic control unit
- Choke-free operation
- Electronic colder operation enrichment
- Electronic altitude compensation
- Low pressure fuel injection technology with electronic fuel pump
- Cast-iron cylinder liners
- Metal engine cover
- Heavy-duty shift-type starter





The FX850V LPG shares the FX Series’ world-respected quality, design, dimensions and footprint. It uses the same maintenance parts, is covered by the same warranty, and runs on clean, affordable propane. No more retro-fitting gasoline engines—this powerplant is engineered to make the most of your propane benefits from the get-go.

- Commercial mowers
- Heavy-duty industrial and construction equipment

FX850V LPG



ENGINE TYPE	Forced Air-Cooled V-twin 4-cycle Horizontal Shaft OHV LPG Engine
Bore x Stroke	3.3 x 3.0 in. (84.5 x 76mm)
Displacement	852cc (52.0 cu. in.)
Compression Ratio	8.2:1
Oil Capacity (dry)	2.1 U.S. qt. (2.0 liter) w/Filter
Dry Weight	124.3 lbs. (56.4kg)

- 90° V-twin
- Pressurized lubrication system
- Automatic compression release
- High efficiency oil cooler
- Rotating metal grass chopper screen
- Dual stage canister air filter
- Cast-iron cylinder liners
- Metal engine cover
- Flexible Vapor/Liquid LPG fuel delivery system



BECAUSE ONLY GENUINE IS GOOD ENOUGH.



Some people think that any oil, filter or spark plug is fine for their premium engine. But parts that *nearly fit, or kind of work*, can scour precision parts with impurities, wreck pistons and rods by oil starvation, cause rough running and wasted fuel, and sideline a mower that should be making you money. Insist on genuine Kawasaki parts and oil for your Kawasaki engine. It's the no-guesswork way to maintain full performance. So you can get back to a full workload.

GENUINE KAWASAKI OIL AND FILTERS.

Kawasaki engine oils are specifically formulated with additives that maintain viscosity, reduce oil consumption, support stay-in-grade performance, and help control foaming and shearing. Kawasaki has oils that are approved for both gasoline and diesel applications.

99969-6081 10W-30

99969-6281 SAE 30

99969-6296 10W-40



OIL FILTERS

Inside each filter, an interior of slotted alloy adds an extra layer of defense against deposits. While a Kawasaki oil filter might look like any other, at the core it's made of tough stuff, to keep your engine, and you, out of the shop and on the job.

49065-7010 *Fits most engines*

49065-7007 *FR/FS/FX*



AIR FILTERS

Kawasaki oil, air and fuel filters are designed with media, materials and permeability that match the flow rates, operating pressures and temperatures of your Kawasaki engine. Generic filters may not be as precise, so effective protection may not be there.



TUNE-UP KITS THAT KEEP KAWASAKI POWER GENUINE.

Kawasaki tune-up kits contain high-efficiency oil and air filter, premium engine oil, and spark plugs matched to your engine. Everything fits and works to cut downtime to a minimum and keep uptime going long and strong.



KIT #	COMPATIBILITY
99969-6142B	FJ180V (select models)
99969-6287	FJ180V (select models)
99969-6150B	FJ180V KAI™
99969-6208A	FH381V / FH430V / FH480 / FH541V / FH580V KAI™
99969-6209A	FH451V / FH500V / FH531V / FH541V / FH580V
99969-6211A	FH601V / FH641V / FH680V / FH721V
99969-6220B	FD731 / FH601V / 641V / 661V / 680V / 721V / FH770D KAI™
99969-6190B	FR541V / FR600V
99969-6189B	FR651V / FR691 / FR730V / and all FS engines
99969-6196C	FX481V / FX541V / FX600V
99969-6191B	FX651V / FX691V / FX730V
99969-6262A	FX751V / FX801V / FX850V
99969-6264A	FX921V / FX1000V

GENUINE KAWASAKI SHORT BLOCK ASSEMBLIES.

Repower your Kawasaki FS or FX Series engine with a factory-made short block assembly. See your Authorized Kawasaki dealer for details.



PART #	ENGINE APPLICATION	PTO SIZE
59341-0011	FS & FX: 481V / 541V / 600V	1" X 80MM PTO
59341-0019	FS & FX: 481V / 541V / 600V	1 1/8" X 100MM PTO
59341-0014	FS & FX: 481V / 541V / 600V	1 1/8" X 108.8MM PTO
59341-0012	FS & FX: 651V / 691V / 730V	1" X 80MM PTO
59341-0016	FS & FX: 651V / 691V / 730V	1 1/8" X 100MM PTO
59341-0017	FS & FX: 651V / 691V / 730V	1 1/8" X 108.8MM PTO
59341-0013	FX751V / FX801V / FX850V	1 1/8" X 108.8MM PTO
59341-0015	FX921V / FX1000V	1 1/8" X 100MM PTO
59341-0018	FX921V / FX1000V	1 1/8" X 108.8MM PTO

Kawasaki short block assemblies are covered by a 90-day warranty from the retail sale date. For complete warranty details visit [kawasakenginesusa.com/kawasaki-warranties](https://www.kawasakenginesusa.com/kawasaki-warranties)

ENGINEERED. NOT JUST ASSEMBLED.

An engine is no better than its weakest part. So we design robust strength into every component. Flywheels are cast iron. Seals are high temperature silicone. Pistons are micro-smooth for clean running efficiency. Mirror-finish bearings virtually eliminate friction. High-pressure die cast heads, three-radius-chamfer rod journals, hardened valves, deeper crankcase webbing—every last detail is engineered for solid long-term performance.



Complete Engine Line

Kawasaki | POWER THROUGH IT.
Engines

ENGINE MODEL	AIR-COOLED	LIQUID-COOLED	OVERHEAD 90° V-TWIN	SINGLE CYLINDER	TWO CYLINDER	CARBURETED	FUEL INJECTION	HORIZONTAL SHAFT	VERTICAL SHAFT	HORSEPOWER
FD750D		•	•		•	•		•		25.0
FD791D-DFI		•	•		•		•	•		26.0
FD851D-DFI		•	•		•		•	•		31.0
FH770D KAI	•		•		•	•		•		764 cc
FJ180V	•			•		•			•	179 cc
FJ180V KAI	•			•		•			•	179 cc
FR541V	•		•		•	•			•	15.0
FR600V	•		•		•	•			•	18.0
FR651V	•		•		•	•			•	21.5
FR691V	•		•		•	•			•	23.0
FR730V	•		•		•	•			•	24.0
FS481V	•		•		•	•			•	14.5
FS541V	•		•		•	•			•	15.0
FS600V	•		•		•	•			•	18.5
FS651V	•		•		•	•			•	22.0
FS691V	•		•		•	•			•	23.0
FS730V	•		•		•	•			•	24.0
FS730V-EFI	•		•		•		•		•	25.5
FX481V	•		•		•	•			•	15.5
FX541V	•		•		•	•			•	16.5
FX600V	•		•		•	•			•	19.0
FX651V	•		•		•	•			•	20.5
FX691V	•		•		•	•			•	22.0
FX730V	•		•		•	•			•	23.5
FX751V	•		•		•	•			•	24.5
FX801V	•		•		•	•			•	25.5
FX850V	•		•		•	•			•	27.0
FX921V	•		•		•	•			•	31.0
FX1000V	•		•		•	•			•	35.0
FX1000V-DFI	•		•		•		•		•	37.0