



CVO™

CVO™ LIMITED

Model Specifications¹ FLHTKSE

DIMENSIONS	
Length	102.4 in. (2600 mm)
Overall Width	42.5 in. (1080 mm)
Overall Height	56.7 in. (1440 mm)
Seat Height:	
• Laden ²	27.7 in. (704 mm)
• Unladen	29.9 in. (760 mm)
Ground Clearance	4.9 in. (125 mm)
Rake (steering head)	26°
Fork Angle	29.25°
Trail	6.7 in. (170 mm)
Wheelbase	64 in. (1625 mm)
Tires (Dunlop® Harley-Davidson® Series, bias blackwall front and rear):	
• Front – D408F	BW 130/60B19 61H
• Rear – D407	BW 180/55B18 80H
Fuel Capacity	6 gal. (22.7 l)
(warning light at approximately 1 gal.)	
Oil Capacity (w/filter)	5 qt. (4.7 l)
Transmission Capacity	1 qt. (.95 l)
Primary Chain Case Capacity ³	1.1 qt. (1 l)
Weight:	
• As Shipped	906 lb. (411 kg)
• In Running Order	944 lb. (428 kg)
• Gross Vehicle Weight Rating	1360 lb. (617 kg)
• Gross Axle Weight Rating	
• Front	500 lb. (227 kg)
• Rear	926 lb. (420 kg)
Luggage Capacity:	
• Volume	4.7 cu. ft. (0.132 m ³)

ENGINE	
Engine	Twin-Cooled™ Milwaukee-Eight® 117
Valves	Pushrod-operated, overhead valves with hydraulic, self-adjusting lifters; four valves per cylinder
Bore x Stroke	4.075 in. x 4.5 in. (104 mm x 114 mm)
Displacement	117 cu. in. (1923 cc)
Compression Ratio	10.2:1
Fuel System ³	Electronic Sequential Port Fuel Injection (ESPFI)
Air Cleaner	Paper, washable
Exhaust	Dual, with crossover
Lubrication System	Pressurized, dry-sump

DRIVETRAIN	
Primary Drive	Chain, 34/46 ratio
Final Drive	Belt, 32/68 ratio
Clutch	Hydraulically actuated 10 plate, wet Assist & Slip
Transmission	6-Speed Cruise Drive®
Gear Ratios (overall):	U.S.
• 1st	9.593
• 2nd	6.65
• 3rd	4.938
• 4th	4
• 5th	3.407
• 6th	2.875

CHASSIS	
Frame	Mild steel; tubular frame; two-piece stamped and welded backbone; cast and forged junctions; twin downtubes; bolt-on rear frame with forged fender supports; MIG welded
Swingarm	Mild steel; two-piece drawn and welded section; forged junctions; MIG welded
Front Forks	49 mm Dual Bending Valve
Rear Shocks	Premium standard height hand-adjustable rear suspension
Wheels ⁴ (Denim Black and Contrast Gloss Black Tomahawk, Gloss Black and Contrast Smoked Satin Tomahawk options):	Gloss Black and Contrast Satin Tomahawk
• Front	19 in. x 3 in. (483 mm x 76 mm)
• Rear	18 in. x 5 in. (457 mm x 127 mm)
Brakes:	
• Caliper Type	32 mm, 4-piston fixed front and rear
• Rotor Type (diameter x width):	Dual floating rotors (front), fixed rotor (rear)
• Front (dual)	11.8 in. x .2 in. (300 mm x 5.1 mm)
• Rear	11.8 in. x .28 in. (300 mm x 7.1 mm)
• Anti-Lock Braking System	Standard
Suspension Travel:	
• Front Wheel	4.6 in. (117 mm)
• Rear Wheel	3 in. (76 mm)

PERFORMANCE	
Engine Torque ⁵ (per J1349):	
• North America	125 ft. lb. @ 3500 rpm (169 Nm @ 3500 rpm)
Lean Angle (per J1168):	
• Right	34.3°
• Left	33.4°
Fuel Economy ⁶ (Estimated City/Hwy)	41 mpg (5.7 l/100 km)

ELECTRIC	
Battery (per Battery Council International Rating)	Sealed, maintenance-free, 12V, 28-amp/hour, 405 cca
Charging	Three-phase, 48-amp system (600W @13V, 2000 RPM, 625W max power @ 13V)
Starting	1.6 kW electric with solenoid shift starter motor engagement
Lights (as per country regulation):	
• Headlamp	Daymaker™ Adaptive LED Headlamp with fog lights
• Tail/Stop Lights	LED
• Front Signal Lights	LED
• Indicator Lamps	Headlight, running lights, directional lights, neutral, low oil pressure, check engine, turn signals, security/fault indication, gear indication, neutral, low fuel warning, cruise control, ABS, Low Tire Pressure/TPMS indicator, Traction Control, Rain Mode, Vehicle Hold Control (VHC), fog/aux lamp indicator
• Rear Turn Signals	LED
Gauges	Custom gauges styled to complement each CVO vehicle. Display features odometer, trip A, trip B, range to empty and gear indicator; and larger tell-tale indicators
Auxiliary Lamps (except where prohibited by law)	Two LED @ 20W each
Electric Power Outlet	Electric power accessory port in fairing and Tour-Pak®
GPS System	Boom!™ Box GTS audio system with GPS and touchscreen

WARRANTY	
Warranty ⁸	24 months (unlimited mileage)
Service Interval ⁹	First 1000 miles (1600 km), every 5000 miles (8000 km) thereafter

¹ Vehicles depicted may differ from vehicles manufactured and delivered. Specifications and prices listed may differ from specifications and prices of vehicles manufactured and delivered. All product descriptions (including depictions, specifications, dimensions, measurements, ratings and competitive comparisons) are based on available information at the time of publication. Although such descriptions are believed correct, errors and changes can occur and complete accuracy cannot be guaranteed. Harley-Davidson may make changes at any time to prices and specifications, and may change or discontinue models, without notice and without incurring any obligation. Attention: Vehicles in the configurations shown and many of the accessories described in this catalog may not be available for sale or use in some locations. Please check with your dealer for complete product details and the latest information. All models feature 6-speed transmission (VRSC™ models and Sportster® models are 5-speed) and carbon fiber belt final drive; multi-plate clutch with diaphragm spring in oil bath; and 2-year unlimited mileage warranty.

² Measurement reflects 180 lb. (81.7 kg) operator weight.

³ Recommended 91 octane or higher fuel (R+M)/2.

⁴ Standard and optional wheels may vary by country and region.

⁵ Values shown are nominal. Performance may vary by country and region.

⁶ The combined fuel economy numbers were derived using a combination of estimated city and highway values. Fuel economy estimates are derived from US EPA exhaust emission certification data on a sample motorcycle from the corresponding family under ideal laboratory conditions. Your actual fuel economy will vary depending on your personal riding habits, road and driving conditions, vehicle condition and maintenance, tire pressure, vehicle configuration (parts and accessories), and vehicle loading (cargo, rider and passenger weight). Break-in mileage may vary.

⁷ North America security system includes immobilizer; outside North America the security system includes immobilizer and siren.

⁸ See motorcycle Owner's Manual for complete details.

⁹ Inspections of certain systems and components are required at 2,500 mile (4,000 km) intervals. See Owner's Manual for full details.