

FLSTN SOFTAIL® DELUXE

MODEL SPECIFICATIONS¹



DIMENSIONS	
Length	94.7 in. (2405 mm)
Overall Width	38.6 in. (980 mm)
Overall Height	44.3 in. (1125 mm)
Seat Height:	
• Laden ²	24.5 in. (622 mm)
• Unladen	25.9 in. (658 mm)
Ground Clearance	4.8 in. (122 mm)
Rake (steering head)	32.1°
Fork Angle	32°
Trail	5.8 in. (147 mm)
Wheelbase	64.5 in. (1638 mm)
Tires (Dunlop® Harley-Davidson Series, wide whitewall):	
• Front – D402F	MT90-16 72H
• Rear – D402	MU85B16 77H
Fuel Capacity	5.0 gal. (18.9 L)
(warning light at approximately 1.0 gal.)	
Oil Capacity (w/filter)	3.5 qts. (3.3 L)
Transmission Capacity	1.0 qts.
Primary Chain	1.0 qts.
Case Capacity ³	
Weight:	
• As Shipped	695 lbs. (315.0 kg)
• In Running Order	726 lbs. (329.0 kg)
• Gross Vehicle Weight Rating	1160 lbs. (526.0 kg)
• Gross Axle Weight Rating:	
• Front	430 lbs. (195.0 kg)
• Rear	730 lbs. (331.0 kg)
ENGINE	
Engine ⁴	Air-cooled, Twin Cam 96B™
Valves	Pushrod-operated, overhead valves with hydraulic, self-adjusting lifters; two valves per cylinder
Bore x Stroke	3.75 in. x 4.38 in. (95.3 mm x 111.3 mm)
Displacement	96 cu. in. (1584 cc)
Compression Ratio	9.2:1
Fuel System ⁴	Electronic Sequential Port Fuel Injection (ESPFI)
Air Cleaner	Paper, washable
Lubrication System	Pressurized, dry-sump

DRIVETRAIN	
Primary Drive	Chain, 34/46 ratio
Final Drive	Belt, 32/66 ratio
Clutch	Multi-plate, wet
Transmission	6-Speed Cruise Drive®
Gear Ratios (overall):	U.S.
• 1st	9.311
• 2nd	6.454
• 3rd	4.793
• 4th	3.882
• 5th	3.307
• 6th	2.79
CHASSIS	
Frame	Mild steel tubular frame; rectangular section backbone; stamped, cast, and forged junctions; forged fender supports; MIG welded
Swingarm	Mild steel, round tube sections, forged junctions; MIG welded
Front Forks	41.3 mm telescopic, “beer can” covers
Rear Shocks	Hidden, horizontal-mounted, coil-over
Wheels ⁵ (Chrome, Profile Laced Aluminum option):	
• Front	16 in. x 3 in. (406 mm x 76 mm)
• Rear	16 in. x 3 in. (406 mm x 76 mm)
Brakes:	
• Caliper Type	4-piston front and 2-piston rear
• Rotor Type (diameter x width):	Patented, uniform expansion rotors
• Front	11.5 in. x .2 in. (292 mm x 5 mm)
• Rear	11.5 in. x .23 in. (292 mm x 6 mm)
• Anti-lock Braking System (option)	Available
Suspension Travel:	
• Front Wheel	5.1 in. (130 mm)
• Rear Wheel	3.6 in. (91 mm)
PERFORMANCE	
Engine Torque ⁶ (per SAE J1349):	
• North America	93.7 ft. lbs. @ 3000 RPM (127 Nm @ 3000 RPM)
Lean Angle:	
• Right	25.8°
• Left	26.7°
Fuel Economy ⁷ (EPA urban/highway test)	35/54 mpg (6.70/4.40 L/100 km)

ELECTRIC	
Battery (per Battery Council International Rating)	Sealed, maintenance-free, 12V, 19-amp/hour, 270 cca
Charging	Three-phase, 38-amp system (439W @ 13V, 2000 RPM, 489W max power @ 13V)
Starting	1.2 kW electric with solenoid shift starter motor engagement
Lights (as per country regulation):	
• Headlamp (quartz halogen)	55-watt low beam, 60-watt high beam
• Tail/Stop Lights	8W/28W (5W/21W)
• Turn Signal Lights	28W (21W) self-canceling
• Indicator Lamps	High beam, neutral, low oil pressure, turn signals, engine diagnostics, security system ⁸ (optional), 6-speed, low fuel warnings
WARRANTY	
Warranty ⁹	24 months (unlimited mileage)
Service Interval	First 1,000 miles (1,600 km), every 5,000 miles (8,000 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 Primary case oil fill is 32 oz. or as needed to fill to bottom of diaphragm.

⁴ Recommended 91 octane or higher fuel (R+M)/2.

⁵ Standard and optional wheels may vary by country and region.

⁶ Values shown are nominal. Performance may vary by country and region.

⁷ Estimated from fuel economy tests on a sample motorcycle from the corresponding family conducted by Harley-Davidson under ideal laboratory conditions. Not all motorcycle models undergo fuel economy testing. Fuel economy and mileage may vary among motorcycle models within a family. Your mileage may vary depending on your personal riding habits, weather conditions, trip length, vehicle condition and vehicle configuration and other conditions. Break-in mileage may vary.

⁸ North America security system includes immobilizer; outside North America the security system includes immobilizer and siren.

⁹ See motorcycle owner's manual for complete details.