



# 2021 FLRT FREEWHEELER<sup>®</sup>

## DIMENSIONS

Notes

Length	103 in. (2,615 mm)	
Overall Width	55.3 in. (1,405 mm)	
Overall Height	45.3 in. (1,150 mm)	
Seat Height, Laden	26.2 in. (665 mm)	2
Seat Height, Unladen	27.6 in. (700 mm)	
Ground Clearance	4.9 in. (125 mm)	
Rake (steering head) (deg)	26	
Fork Angle (deg)	32.2	
Trail	3.96 in. (101 mm)	
Wheelbase	65.7 in. (1,670 mm)	
Tires, Type	Dunlop <sup>®</sup> Harley-Davidson Series, bias blackwall front and radial blackwall rear	
Tires, Front Model	D408F	
Tires, Front Specification	MT 130/60B19 M/C 61H	
Tires, Rear Model	Signature	
Tires, Rear Specification	P205/65R15	
Fuel Capacity	6 gal. (22.7 l)	
Reserve Fuel Capacity, Fuel Injection (warning light)	1 gal. (3.8 l)	
Oil Capacity (w/filter)	5 qt. (4.7 l)	
Transmission Capacity	1.1 qt. (1.0 l)	
Primary Chain Case Capacity	1.1 qts. (1.0 l)	
Coolant Capacity	N/A	
Weight, As Shipped	1,085 lb. (492 kg)	
Weight, In Running Order	1,118 lb. (507 kg)	
Gross Vehicle Weight Rating	1,700 lb. (771 kg)	
Gross Axle Weight Rating, Front	511 lb. (232 kg)	
Gross Axle Weight Rating, Rear	1,188 lb. (539 kg)	
Luggage Capacity -Volume	2 cu ft (0.06 m <sup>3</sup> )	

## ENGINE

Engine	Milwaukee-Eight <sup>®</sup> 114
Valves	Pushrod-operated, overhead valves with hydraulic, self-adjusting lifters; four valves per cylinder
Bore	4.016 in. (102 mm)
Stroke	4.5 in. (114 mm)

Displacement	114 cu in (1,868 cc)	
Compression Ratio	10.5:1	
Fuel System	Electronic Sequential Port Fuel Injection (ESPFI)	3
Air Cleaner	Paper, washable	
Exhaust	Shorty slash down-style chrome finish mufflers	
Lubrication System	Pressurized, dry-sump with fan-assisted oil cooler	

## DRIVETRAIN

Primary Drive	Chain, 34/46 ratio	
Final Drive	Belt, 30/70 ratio	
Clutch	Mechanically actuated 10 plate, wet Assist & Slip	
Transmission	6 Speed Cruise Drive	
Gear Ratios (overall) 1st	10.534	
Gear Ratios (overall) 2nd	7.302	
Gear Ratios (overall) 3rd	5.423	
Gear Ratios (overall) 4th	4.392	
Gear Ratios (overall) 5th	3.741	
Gear Ratios (overall) 6th	3.157	

## CHASSIS

Frame	Mild steel, square-section backbone with twin downtubes	
Swingarm	Mild steel, rectangular tube sections with plate junctions; MIG welded	
Front Fork	49mm dual bending valve	
Rear Shocks	Hand-adjustable emulsion rear suspension	
Wheels, Front Type	Enforcer Cast Aluminum	4
Wheels, Front Width	3.5 in. (89 mm)	
Wheels, Front Height	19 in. (483 mm)	
Wheels, Rear Type	Enforcer Cast Aluminum	4
Wheels, Rear Width	5.5 in. (140 mm)	
Wheels, Rear Height	15 in. (381 mm)	
Brakes, Caliper Type	Front: 32mm 4 piston fixed, Rear: floating 36mm piston integrated park brake	
Brakes, Rotor Type	Dual floating rotors (front), fixed rotor (rear)	
Brakes, Front Diameter	11.8 in. (300 mm)	
Brakes, Front Thickness	0.2 in. (5.1 mm)	
Brakes, Front is dual	Yes	
Brakes, Rear Diameter	10.6 in. (270 mm)	
Brakes, Rear Thickness	0.24 in. (6 mm)	
Brakes, Anti-Lock Braking System (ABS)	Standard	
Suspension Travel, Front	4.6 in. (117 mm)	
Suspension Travel, Rear	3 in. (76 mm)	

## PERFORMANCE

Engine Torque Testing Method	J1349
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Engine Torque	122 ft-lb (165 Nm)	5
Engine Torque (rpm)	2,250	
Lean Angle Testing Method	N/A	
Lean Angle, Right (deg.)	N/A	
Lean Angle, Left (deg.)	N/A	
Fuel Economy Testing Method	Estimated City/Hwy	
Fuel Economy	43 mpg (5.5 l/100 km)	6

## ELECTRIC

Battery	Sealed, maintenance-free, 12V, 28-amp/hour, 405 cca (per battery Council International Rating)	
Charging	Three Phase, 48-amp system (600W @ 13V, 2000 rpm, 625W max power @ 13V)	
Starting	1.6kW electric with solenoid shift starter motor engagement	
Lights (as per country regulation), Headlamp	Dual halogen	
Lights (as per country regulation), Tail/Stop	Incandescent	
Lights (as per country regulation), Front Signal Lights	Incandescent	
Lights (as per country regulation), Indicator Lamps	High beam, running lights, battery, neutral, low oil pressure, engine diagnostics, cruise control, security system, gear indicator, low fuel warning, reverse, park brake	7
Lights, Rear Turn Signals	Incandescent	
Gauges	Speedometer, fuel gauges; display features odometer, trip A, trip B, range to empty, and gear indicator	
Auxiliary Lamps	N/A	
Electric Power Outlet	N/A	
GPS System	N/A	
Reverse Gear	Electric reverse actuated by handlebar mounted hand controls.	

## WARRANTY AND SERVICE

Warranty	24 months (unlimited mileage)	8
Service Interval	First 1,000 miles (1,600 km), every 5,000 miles (8,000 km) thereafter	9

## FOOTNOTES

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.