Lime Gen4 E-Scooter

We deploy more than 200,000 shared electric vehicles worldwide daily, including 189,000 e-scooters in 230+ cities and over 20,000 of our award-winning e-bikes in nearly 50 cities.

Lime’s 150+ person in-house engineering team designed our Gen4 vehicles from the ground up, incorporating data from our 300 million rides and feedback from our riders, operations teams and the cities we serve. The Gen4 e-scooter is designed for comfort, reliability, and sustainability and sets a new standard for the industry.

**Durable for the elements:** Feedback from cities with wet climates led us to include a wider, textured footboard to provide better rider balance and traction in wet or slippery weather, a strong, weather-resistant aluminum frame, and IP67 waterproofing to better protect our battery.

**Enabling a tidier street:** Every Gen4 e-bike and e-scooter is equipped with a bluetooth LimeLock to securely tether it to bike racks or other permitted infrastructure. The e-scooter’s double kickstand and low center of gravity keep it upright while not in use.

**Designed for every environment:** Our Gen4 e-scooter has dual brakes and hand controls for quicker braking response. In our testing, on wet surfaces, the Gen4 e-scooter can stop in half the distance as the next leading competitor. Quick stopping ability protects both the rider and other road users.

**Intuitive interface:** The Gen4 e-scooter has an LED screen to inform riders of the battery level and geofenced zones. Our user interface is designed to be understood universally, regardless of language.
Lime safety engineers lead the development of industry safety standards to ensure all e-scooters—from any vendor—are safe, in partnership with respected standard-setting bodies like ASTM, Underwriters Laboratory, International Electrotechnical Commission, and SAE International.

Lime’s vehicles are designed to be modular, with every piece able to be removed and replaced. Only when vehicles experience damage such as extensive vandalism which compromises the frame are they considered beyond repair. In those cases, our Operations Team disassembles the vehicle to separate aluminum, plastic and electronic component parts for repair and reuse on other vehicles. Parts unsuitable for repair are then recycled.

Rider stress testing to ensure durability and performance (above). Design improvements have reduced stress levels up to 50%.

Real-time vehicle control

Every Lime vehicle is equipped with global positioning system (GPS) technology that tracks the vehicle’s position, as well as on-board zone mapping to control ride behavior. As a result of investments in our hardware and software, Lime now offers the industry’s most accurate and responsive geofencing capabilities, allowing vehicles to implement geofence zone commands up to 90% faster and 30% more accurately than in 2020.

- **No Parking Zone**
  Riders are unable to end their ride in a no parking zone.

- **Slow Zone**
  Speed is capped at a lower speed than the background speed.

- **Designated Parking Zone**
  Parking locations are geofenced and visible in the app.

- **Service Zone**
  The area where Lime is permitted to operate within a market.

- **No Ride Zone**
  Riders are not permitted to ride here. Vehicles are safely slowed to a stop.