

Technical Information

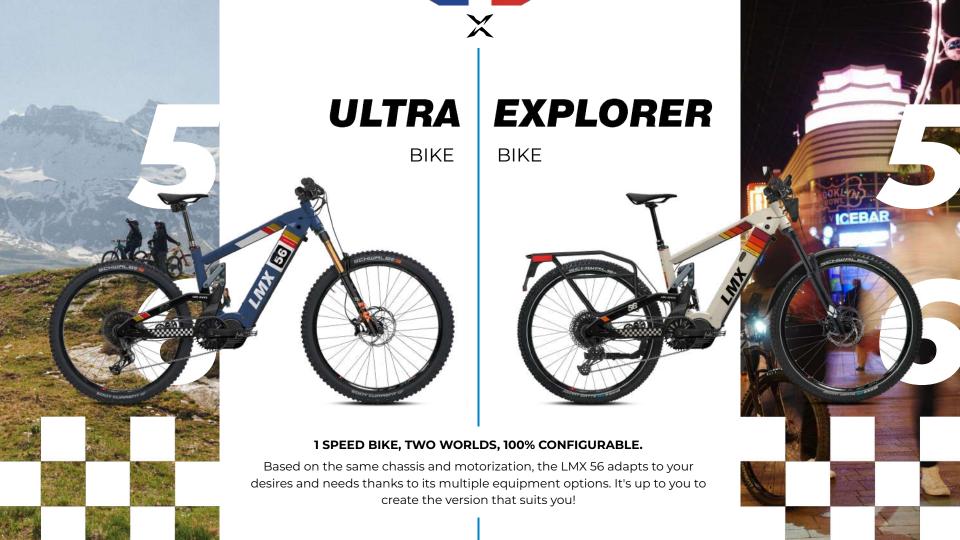




Open the way, Outride your friends, Boost your performance with electric power.









WHAT MAKES THE LMX 56 UNIQUE...





Both bicycle and motorcycle

2 modes: pedal-assist + throttle mode

45 km/h Maximum speed (using the motor) **2500 W** Motor power (peak)



1000 Wh Battery capacity Removable block **Mobile App** Navigation and customization

DUAL TRANSMISSION

Thanks to a dual freewheel system, the LMX 56 features two independent transmissions.

ADVANTAGES

• Complete independence between "bike" & "motorcycle" modes.

• Greatly reduced wear & risk of breakage for the pedaling chain. Proven and patented technology since 2017.



Chain on the pedaling side

Belt on the motor side

BETWEEN A BIKE AND A MOTORCYCLE

The LMX 56 allows you to pedal with motor assistance, just like a regular electric bike. However, a second independent riding mode lets you truly enjoy the experience. The throttle on the handlebars provides real motorcycle sensations!

This unique system lets you push your limits during your rides and reach speeds of up to 45 km/h to overcome any obstacles.



Pedal assistance

Throttle on the handlebars

HOMOLOGATION

The LMX 56 is available in a road-approved version with a 45 km/h top speed (category L1e-B). It is therefore allowed to be ridden on public roads in France and Europe, thanks to its dedicated equipment.

Equipment of the LMX 56 street legal version

- Front and rear lights
- Rearview mirror
- Horr
- Kickstand
- License plate holder / Luggage rack
- Reflectors

Advantages of the street legal version

- Ability to take out insurance
- Government grant of €250
- Permission to ride on public roads up to 45 km/h (commuting, cycling to work)



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High-performance motor

Designed and Assembled by LMX Bikes

Up to 45 km/h of speed Peak power of 2500 W Nominal power of 2000 W Up to 171 N.m of maximum torque at the wheel

Central motor block, brushless type Air cooling system Standard ISIS cranks

Only one connector to disconnect for motor block removal Torque sensor and controller integrated into the block Optimized sealing with lip seals on all interfaces

Enhanced battery capacity

Designed and Assembled by LMX Bikes

1008 Wh battery to accompany you on all your outings Assistive range : 40 to 100 km Range without pedaling : 25 to 35 km

Removable for easy and fast charging and replacement CAN bus communication, temperature sensors for optimal lifespan 50.4V, 20Ah design

Full recharge in 4 hours External 4A charger with 230V 500 charge-discharge cycles up to 80% of the initial capacity



Aluminum chassis welded in France

LMX Bikes Design and Assembly

Cutting, bending, machining, welding, heat treatment, etc.

Frame/Rear triangle/ Swingarm : **6061-T6 aluminum** (aerospace quality)

Total frame weight: 5.5 kg Wheelbase: 1245 mm (size M) / 1305 mm (size L) Head angle: 64° Integrated, tool-free removable battery





A 100% configurable speed bike





Fork (choice of model)

<u>Formula Selva S</u> 160mm travel, 35mm diameter, Air technology

<u>Fox Racing Shox 38 Float Factory Kashima</u> 170mm travel, 38mm diameter, Boost 15x110mm, 29", Air technology

Adjustments: pressure, compression, rebound and lockout



Shocks (choice of model)

<u>Formula Mod</u> 160mm travel

<u>Fox DHX Factory</u> 160mm travel, 210x50mm

Adjustments: Compression, rebound, preload 2 eccentric seat adjustments Progressive suspension



Brakes

Formula Cura 4-e Front 203mm / Rear 203mm Discs 2.3 mm 4 pistons front / 4 pistons rear

A 100% configurable speed bike





Peripherals (choice of package)

<u>Standard Pack</u> SRAM NX derailleur Tranzx AL7075 150mm dropper seatpost

<u>Premium Pack</u> SRAM AXS GX Eagle derailleur Rockshox Reverb AXS dropper seatpost



Smart LED

Assistance mode management through LED color. 4 available modes: Neutral, Eco, Mid, High



Wheels Front/Rear

Front: Machl rim 30 mm x 29" Rear: Machl rim 35 mm x 27.5" Boost 157mm, reinforced freewheel Hub: Dual transmission (LMX patent)

Tires Front/Rear (choice of model)

Front: Schwalbe 29" x 2.6" Rear: Schwalbe 27.5" x 2.8" Johnny Watts (mixed) OR Eddy Current (all-terrain - Tube Type) OR Eddy Current (all-terrain - Tubeless)

A 100% configurable speed bike





Saddle (choice of model) <u>Italia Origine</u> (standard) OR <u>Italia Ultimate</u> (comfort)



Pedals (choice of model)

<u>Plastic</u> (standard) OR <u>LOOK Trail Fusion Black</u> (comfort)

Frame Colors (choice of model) Copper Green OR Ovster White

Homologation (choice of version)

<u>Street legal version</u> (allowed on public roads up to 45 km/h, category L1e-B)

<u>Non street legal version</u> (for circuits, closed or private terrains only)



Accessories (choice of model) External charging adapter Quad Lock phone holder

20L panniers

Additional battery

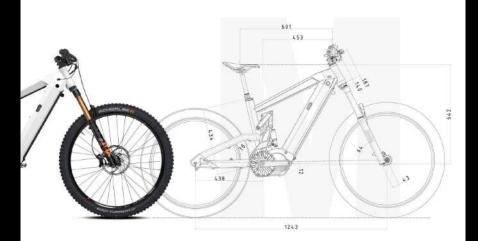
Black mudguards (included in street legal version)

Display (included in the street legal version)



SIZE GUIDE

We recommend size M for riders under 180 cm and size L for riders over 180 cm.











Dashboard - Access all your riding data in real time: actual speed, battery level, distance traveled, etc.

Motor Tuning - Customize your 3 motor assist modes: power level, speed, torque, whether or not the throttle is active, and more.

Route Planner - Discover new routes and share your best rides with your friends.

A system that adapts to you - The app adjusts based on your personal data (weight, height, gender), your configuration preferences, the selected mode, and driving conditions.

Updates - Enjoy new features and download system updates offered by LMX over the months.





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1623 avenue Henri Schneider, 69330 Jonage, France

+33 4 69 31 04 29

www.lmxbikes.com

