

# V51

MAXIMIZES THE EXPERIENCE OF DELIVERY



  
VMOTO  
FLEET

VMOTO  
  
ELECTRIC MOBILITY SOLUTION

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# DESIGN

## Minimalist design in the service of urban delivery

The **VS1**, designed for the **delivery** sector, is distinguished by a **streamlined, functional** design geared toward maximum efficiency. The **clean lines** and **sturdy frame** reflect a minimalist aesthetic that does not sacrifice practicality: every detail is designed to withstand the **stresses of daily use**, **facilitate loading**, and ensure a **stable ride even with heavy weights**.



Front basket, Rear case, Side cases, Side carriers are optional parts.



# DESIGN

Front



Central & side carrier (optional)



Back





# PERFORMANCE

**90** Km/h  
Max speed

**210** N·m  
Max torque

**4.0** kW  
Rated power

**5.4** kW  
Max power

**Riding modes**  
**3** 50 Km/h - 70Km/h  
90 Km/h

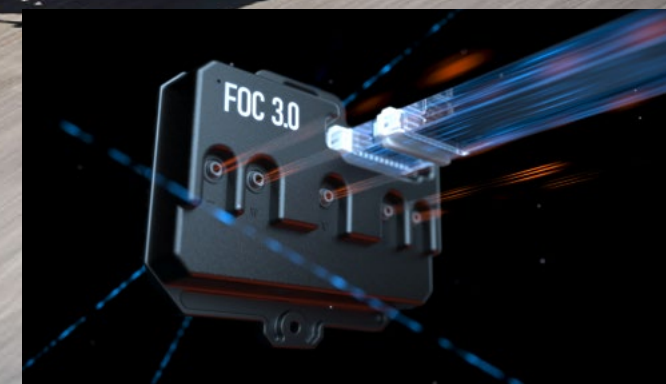
## Brilliant performance for the city and beyond

The **VS1** surprises with its performance, perfect for those seeking agility and punch in electric mobility.

With a top speed of **90 km/h**, impressive torque of **210 N·m** and peak power of **5.4 kW**, this bike offers a lively sprint and dynamic ride. The **3 riding modes** allow performance to be adapted to any situation, while the **FOC 3.0 control unit** optimizes efficiency, increasing power by **16%**.



FOC 3.0 control unit



High power motor





# BATTERY

**30** Min - 0% to 80%  
Super fast charger 6.6kW (Optional)

**2.5** Hours  
Fast charging time (Optional)

**5** Hours  
Charging time (Standard)

**130** Km\* (2 batteries)  
Range (WMTC Stage 3\*)

**74v 45Ah** NCM  
Battery

## High performance & Modulized batteries for maximum autonomy

The **VS1** is equipped with high-capacity NCM lithium batteries, available in **74V/45Ah** or **74V/30Ah**.

The combined use of two batteries provides a range of up to **130 km**, ideal for the demands of intensive urban delivery.



## Battery



74V/30Ah



74V/45Ah

## Chargers



Standard charger  
74V 10A



Optional charger\*  
74V 20A(optional)

## Super fast charger 6.6 kW





# RIDING

## Agility and power on every route

Thanks to its advanced electric motor and high torque, the **VS1** tackles inclines of up to **19°** with ease. This climbing angle makes it ideal for **overcoming urban climbs** and **hilly trails effortlessly**, providing a smooth and stable ride.

**19°** Steep inclines  
Climbing Angle



## Hydraulic damping suspensions

The advanced suspension system ensures **optimal comfort** and **control**, adapting seamlessly to **any terrain**. Ride smoothly in every situation.

Front suspension diameter  $\varnothing 31\text{mm}$



Rear suspension diameter  $\varnothing 32\text{mm}$





# SAFETY



## Rear disc brake

High-performance **CBS**, ensuring maximum **safety and control in all braking conditions**. Rear disc brake **180 mm**.



## Front disc brake

High-performance **CBS**, front disc brake **240 mm**, with double calipers give longer lifetime for brake shoes.



## CST tyre

The tires have a **high-density texture**, which provides **strong ground grip** and **high safety**. Easy and quick to replace.



## Steady stand

Advanced support system that includes a **center stand** and **two side stands**, designed to ensure maximum stability in any situation.



# TECHNOLOGY



## LED

Equipped with a powerful **LED** front headlamp designed to provide maximum visibility in all lighting conditions. The front headlamp **Lighting class C** provides powerful illumination with an **intensity** of **28.000** cd.



## LCD

Clear and intuitive **LCD display** designed to provide the rider with all essential information in real time. Speed, battery level, remaining range and riding mode are always clearly visible, even in bright light.



## Automobile Level

Symbol for temporary parking during delivery.



## USB + Type C

Dual **USB** and **Type C** charging ports, designed to provide maximum convenience during deliveries. This equipment allows smartphones, **GPS** devices or other electronic accessories to be charged directly from the vehicle, keeping everything operational at all times.



# ERGONOMICS



## Ergonomics redefined: Comfort meets functionality

**VS1** is designed to deliver the **perfect balance between comfort and sportiness**. Its carefully engineered ergonomics ensure a **practical and relaxed riding position**, reducing strain on the back even during long journeys. At the same time, its dynamic stance **preserves the thrill and agility** of a true motorcycle. Developed by our team of expert engineers and rigorously tested, **VS1** allows **you to ride for hours**, enjoying both the adrenaline of the road and the pleasure of effortless control.

## Extra comfort





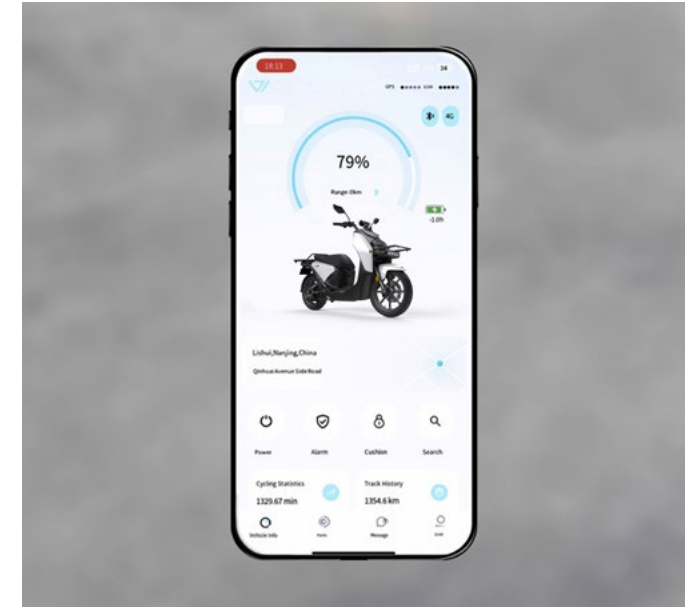
# KEY OPTIONAL PARTS



**Tail box**



**Phone holder**



**Vmoto App**



# VMOTO EMS: ELECTRIC MOBILITY SOLUTION

## What is Vmoto EMS?

Electric vehicles are the present and the future, but they have always had one big question mark: battery range and charging time. Vmoto has the answer to this question and takes you into the future with its new ecosystem: **Vmoto EMS - Electric Mobility Solution**, the solution to the problem of battery range, battery charging and vehicle fleet management!

**Vmoto EMS offers the services** needed to solve the problems of battery range and charging, and they are: **Vmoto Swapping Station**; **Vmoto Charging Station**; **Vmoto Super Fast Charger**; **Vmoto 74V Battery**; **Vmoto Fleet Platform** (with gps connection to monitor vehicle fleets, batteries, battery swap system and charging stations).

**SUPPLY CHAIN**  
Local R&D  
Local battery CKD  
Local vehicle CKD  
Parts localization



**VEHICLE**  
Vehicle sales  
Vehicle rental  
Local service  
B2B - B2C

**BATTERY**  
Battery rent  
Battery swapping  
Charging infrastructure  
Fast charger







# TECHNICAL INFORMATION

Attention: The photos and technical information contained in this catalog may refer to prototypes subject to changes during production and are for purely illustrative and reference purposes; therefore, they are not binding for Vmoto International. Vmoto cannot be held responsible for any printing and/or translation errors. This catalog is transnational and therefore some products may not be available and/or their characteristics may vary according to local laws. Not all colors and versions are available in every country. Vmoto reserves the right to make changes and improvements to any product without prior notice or to make such changes to products already sold. Further characteristics of the products are contained in the relevant user manuals. The products represented are not final versions and are therefore subject to significant changes at the discretion of Vmoto without notice. The photographs published in this catalog show only professional riders in controlled road conditions. Do not attempt to imitate this riding behavior as it may be dangerous for you or others on the road. Note: Some items shown in the photos, such as the rear top case, windshield, mirrors, and front basket, may be optional accessories. Please consult your local dealer for availability. This catalog—including, but not limited to, trademarks, logos, texts, images, graphics, and table of contents—constitutes the intellectual property of Vmoto, or is otherwise reproduced with Vmoto's authorization. Any total or partial reproduction, modification, or other use of this catalog or its contents, including publication on the Internet, is prohibited without prior written consent from Vmoto. Actual battery consumption may vary based on many factors including, but not limited to, riding style, maintenance performed, weather conditions, surface characteristics, tire pressure, load, rider and passenger weight, and accessories. Curb weights are calculated including all operating fluids, standard equipment, and battery. For more information, please visit [www.vmoto.com](http://www.vmoto.com).

VS1

VMOTO

E M S

Homologation

L3e-A1

LxWxH

2049 mm\*727 mm\*1141 mm

Rated power

4.0 kW

Wheelbase

1366 mm

Max power

5.4 kW

Ground clearance

154 mm

Battery model

E M S

NCM lithium battery

Seat height

780 mm

Battery capacity

E M S

74V/30Ah (Optional 2 PCS)  
74V/45Ah (Optional 2 PCS)

Rims

Fr. 2.15-16 | Rr. 2.5-14

Charging time

E M S

Standard 5 h or 3.5 h x PCS  
Optional 2.5 h or 1.5 h x PCS

Tyres

Fr. 100/80-16 | Rr. 110/80-14

Charging power

E M S

Standard 74V10A  
Optional 74V20A

Suspension

Hydraulic damping system

Range\*

E M S

2 x 74V/45Ah 130 Km  
2 x 74V/30Ah 105 Km

Weight

109 kg (without battery)

Max speed

90 Km/h

Brakes

CBS

Climbing angle

19°

Colours

White (Customizable)

\*WMTC Stage 3





**ELECTRIFY  
YOUR WORLD**

[vmoto.com](http://vmoto.com)