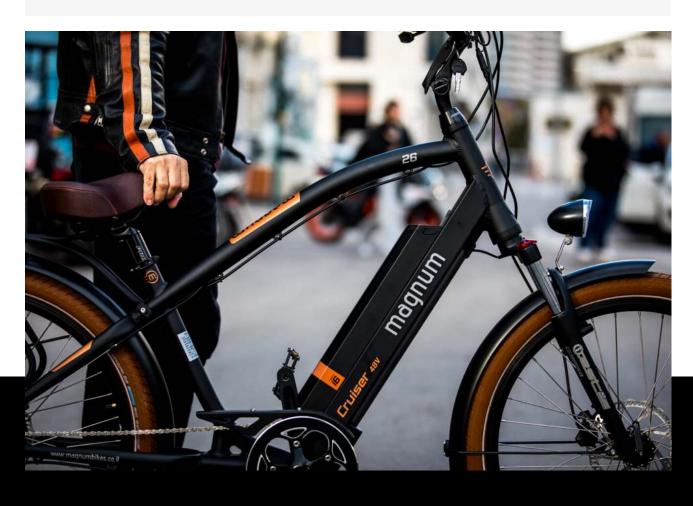
MAGNUM BIKES

INFORMATION PACKET

2020







MAGNUM IS A DESIGN ORIENTED BIKE COMPANY WHOSE ELECTRIC BIKES ARE AS POWERFUL AND DURABLE AS THEY ARE AESTHETICALLY PLEASING.

WHETHER COMMUTING IN TOWN OR RIDING TRAILS, A MAGNUM ELECTRIC BIKE WILL DELIVER PERFORMANCE AND STYLE TO KEEP RIDERS MOVING FASTER AND FARTHER.

WE ARE COMMITTED TO BRINGING OUR CUSTOMERS THE HIGHEST QUALITY AND PERFORMANCE POSSIBLE FROM OUR E-BIKES AND CUSTOMER SUPPORT.



Founded in 2010 Magnum Bikes has been a leader in innovation and design of electric bicycles.

We believe electric bicycles are changing the concept of travel providing a clean, efficient and exciting new mode of transportation that is affordable to all.

Our innovation, design and focus on quality allows us to produce stunning high level electric bicycles that lead the e-bike market internationally.

Our knowledge and control of the manufacturing process allows us to provide you with the maximum product at the minimum price.





Management Team



YONI KAYMAN, CEO

Yoni Kayman is the Founder, President, and CEO of Magnum Bikes. He started the company in 2010 and has helped it grow to what it is today. Yoni is an experienced entrepreneur with over 12 years leading successful businesses.



JESSE LAPIN, COO

Jesse Lapin is the COO of Magnum Bikes. He helped to launch and currently leads the Magnum USA team. With a background in International Business, Jesse is an adept leader in wholesale distribution and sales.

E-Bike Components

6 MAIN COMPONENTS OF AN E-BIKE

MOTOR

Electric motor that when engaged spins the rear wheel.





DISPLAY

Electronic readout for the bike and user interface to send commands to the controller.







THROTTLE

The push of a button engages the motor to increase output and provide jolt of power to the bike.







BATTERY

Provides power source for the bike.





CONTROLLER

Main brain of the bike that houses the motherboard, receives instructions from display that sends commands to the rest of the bike.





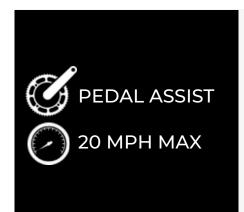
PEDAL ASSIST SENSOR (PAS)

Magnets that sense the movement of the pedals to engage the motor and aid riders movement of the bike.



E-Bike Class Types

Electric bikes have 3 main types that they are classified into. These classes are used as identifiers for the type of bike, and how that bike is receiving assistance from the electrical system. Each country, state, and city have their own specifications for what the classes are and what class is permitted for riding in specific areas. Below is the federally defined requirements for each class in the USA. All of the Magnum models can be adjusted to meet the requirements for each class depending on the need of the rider. Always make sure to check out your local laws before riding!



CLASS 1

This is the most common type of ebike. As the rider pedals, the electrical system gives the rider assistance. These bikes do not have throttles and have a maximum speed of 20 mph.



CLASS 2

Class 2 ebike have all of the same components of Class 1, but have a throttle (20mph max) along with the pedal assist.



CLASS 3

Class 3 ebikes can have both a throttle (20mph max) and pedal assist with a cap of 28 mph.
Wattage is important as well - to remain within all of the 3 classes an ebike must have at or below a 750 watt motor.



The components magnum currently uses in manufacturing are highlighted in blue

MOTORS

FRONT HUB

Located on the front wheel.

Provides power by spinning the front wheel creating the sensation of being "pulled".

Simplest design but most limited capabilities.

REAR HUB

Located on the back wheel.

Provides power by spinning the back wheel creating the sensation of being "pushed".

Affordable and wide range of capabilities, but makes bike weight uneven (heavier rear).

MID-DRIVE

Centrally located. Sends power to the drivetrain instead of the wheel hub. Creates sensation of more balanced riding. Quieter and mor balanced, but have more parts than can break and more expensive.

THROTTLE VS PEDELEC

THROTTLE

Rider simply twists or pushes the throttle and the bike gets going without any assistance from the rider. This is the biggest drain on the battery.

PEDAL ASSIST

Motor activates when the pedals are in motion. This allows the rider to still get a workout with the extra boost to ride further or in harder conditions.

TORQUE VS CADENCE

TORQUE PAS

Measures the amount of power you are putting into the pedals and it will increase or decrease the electric assist based on your pedaling power.

CADENCE PAS

Provide assistance when the cranks of the bike are turning. More simple and also affordable.

BATTERY MOUNTING

RACK MOUNT

Battery is mounted above the rear wheel under the rear carrier rack. Versatile for nearly any frame but affects turing corners and handling.

DOWN TUBE

Most common on production e-bikes. Battery is mounted from the front of the bike down to the crank area. Placement improves handling.

Industry Growth

- In 2018 more e-bikes were sold in the Netherlands than traditional bikes
- In Germany 1 in 3 bikes sold were e-bikes, in Holland it was 1 in 2
- In the USA just 1 in 10 were e-bikes with estimated 91% year over year growth in the USA
- There was \$77 Million in e-bike sales for 2017
- There was \$143 Million in e-bike sales for 2018
- Projected \$300 Million in e-bike sales for 2019

Reasons For Demand

- People are looking for more affordable and more environmentally friendly transportation. E-bikes eliminate the costs associated with a car but have a power source unlike regular bikes.
- It's a more accessible and limitation lifting form of exercise and outdoor leisure. Despite age, injury, or physical capability individuals are able to enjoy bicycling at varying levels of intensity thanks to the assistance of a motor and battery giving the rider pedal assist and a trigger throttle.









500 WATT

48 v 12 AH

PER CHARGE

GEARED HUB MOTOR

11-NCM BATTERY

USE

Urban riding, commuting, capable on dirt and gravel roads

BODY POSITION

Semi-upright, hybrid

FRAME



500W geared hub motor

Hydraulic brakes

27.5" wheel

NAVIGATOR

Bigger Wheel/Bigger Frame Fully Integrated Battery

METRO

Smaller Wheel/Smaller Frame Semi-Integrated Battery

VS



500 WATT

48 v **12** AH

PER CHARGE

GEARED HUB MOTOR

L1-NCM BATTERY

USE

Urban riding, commuting, capable on dirt and gravel roads

BODY POSITION

Semi-upright, hybrid

FRAME

Step over frame/high step frame



500W geared hub motor

Hydraulic brakes

27.5" wheel

VOYAGER

Fully Integrated Battery

METRO+

Semi-Integrated Battery

VS



500 WATT

48 v 13 AH

PER CHARGE

GEARED HUB MOTOR

11-NCM BATTFRY

USE

Cruising, urban riding, leisure riding

BODY POSITION

Upright, back leaning

FRAME

High step, beach cruiser frame



500W geared hub motor

Hydraulic brakes

26" wheel Big Ben Tire (thicker, comfort)

CRUISER

Beach cruiser frame Upright body position Further reach to handlebars

VS

METRO

Hybrid frame Semi-upright body position



500 WATT

48 v 13 AH

PER CHARGE

GEARED HUB MOTOR

L1-NCM BATTERY

USE

Cruising, urban riding, leisure riding

BODY POSITION

Upright, back leaning

FRAME

Low step, beach cruiser frame



500W geared hub motor

Hydraulic brakes

26" wheel Big Ben Tire (thicker, comfort)

LOWRDIER

Beach cruiser frame
Upright body position
Further reach to handlebars

VS

METRO

Hybrid frame Semi-upright body position



750 WATT

48 v **13** AH

PER CHARGE

GEARED HUB MOTOR

L1-NCM BATTERY

USE

Cruising, urban riding, leisure riding

BODY POSITION

Upright, back leaning

FRAME

High step, beach cruiser frame



750W geared hub motor

Hydraulic brakes

26" Wheel 4" Thick Tire

RANGER

4" Fat Tires 750W Motor

VS

CRUISER

2.5" Tires 500W Motor



600 WATT

48 v **13** AH

PER CHARGE

GEARED HUB MOTOR

L1-NCM BATTERY

USE

Cargo, commuting

BODY POSITION

Upright

FRAME

Extended rear and front carriers



750W geared hub motor

Hydraulic brakes

26" Wheel

PAYLOAD

Cargo Carriers



500 WATT

48 v 13 AH

PER CHARGE

GEARED HUB MOTOR

11-NCM BATTFRY

USE

Urban riding, commuting, capable on dirt and gravel roads

BODY POSITION

Semi-upright, hybrid

FRAME

Step thru frame/low step frame



500W geared hub motor

Hydraulic brakes

VS

26" wheel Big Ben Tire (thicker, comfort)

METRO

Low step

METRO

Hydraulic brakes

High Step

METRO +

UI6

Mechanical brakes



500 WATT

48 v **13** AH

PER CHARGE

GEARED HUB MOTOR

L1-NCM BATTERY

USE

Urban riding, commuting, capable on dirt and gravel roads

BODY POSITION

Semi-upright, hybrid

FRAME

High step frame



500W geared hub motor

Hydraulic brakes

VS

700c wheel, Marathon tire (thinner, road cycling)

METRO+

High step

METRO+

Hydraulic brakes

METRO

Low Step

UI6

Mechanical brakes



500 WATT

48 v **13** AH

PER CHARGE

GEARED HUB MOTOR

L1-NCM BATTERY

USE

Mountain biking, off roading, trail riding

BODY POSITION

Cycling, forward

FRAME

High step, mountain bike frame



500W geared hub motor

Hydraulic brakes

27.5" or 29" wheel, Smart Sam tire (knobby, more grip)

PEAK 27.5

Smaller wheel/smaller frame

PEAK

500W 48V motor Hydraulic brakes VS

PEAK 29

Bigger wheel/bigger frame

MI5

350W 36V motor Mechanical brakes



25-55 MILES

500 WATT

48 v **13** AH

PER CHARGE

GEARED HUB MOTOR

L1-NCM BATTERY

USE

Commuting, urban riding, leisure riding

BODY POSITION

Upright

FRAME



500W geared hub motor

Mechanical brakes

VS

20" wheel

PREMIUM

Mechanical Brakes

PREMIUM II

Hydraulic Brakes

Premium 11

25-55 MILES

500 WATT

48 v **13** AH

PER CHARGE

GEARED HUB MOTOR

L1-NCM BATTERY

USE

Commuting, urban riding, leisure riding

BODY POSITION

Upright

FRAMELow step or high step folding frame



500W geared hub motor

Hydraulic brakes

VS

20" wheel

PREMIUM II

Hydraulic Brakes

PREMIUM

Mechanical Brakes



22-44 MILES

350 WATT

36 v 13 AH

PER CHARGE

GEARED HUB MOTOR

L1-NCM BATTERY

USE

Urban riding, commuting, capable on dirt and gravel roads

BODY POSITION

Upright

FRAME

Low step folding frame



350W geared hub motor

Mechanical brakes

VS

20" wheel

CLASSIC FOLDING

350 Watt 36 Volt motor

PREMIUM FOLDING

500 Watt 48 Volt motor



22-44 MILES

500 WATT

48 v 13 AH

PER CHARGE

GEARED HUB MOTOR

11-NCM BATTFRY

USE

Urban riding, commuting, capable on dirt and gravel roads

BODY POSITION

Upright

FRAME

Low step or high step folding frame



350W geared hub motor

Mechanical brakes

VS

20" wheel

CLASSIC II

500 Watt 48 Volt motor

CLASSIC

350 Watt 36 Volt motor



500 WATT

48 v 13 AH

PER CHARGE

GEARED HUB MOTOR

11-NCM BATTFRY

USE

Urban riding, commuting, capable on dirt and gravel roads

BODY POSITION

Semi-upright, hybrid

FRAME

Step thru frame/low step frame



500W geared hub motor

Mechanical brakes

VS

26" wheel Big Ben Tire (thicker, comfort)

UI6

Mechanical brakes

METRO

Hydraulic brakes



500 WATT

48 v **13** AH

PER CHARGE

GEARED HUB MOTOR

USE

Urban riding, commuting

BODY POSITION

Semi-upright, hybrid

FRAME

High step frame



500W geared hub motor

Mechanical brakes

VS

700c Wheel Smart Sam Tire

UI6+

Mechanical brakes

METRO+

Hydraulic brakes



500 WATT

48 v 13 AH

PER CHARGE

GEARED HUB MOTOR

11-NCM BATTERY

USE

Mountain biking, off roading, trail riding

BODY POSITION

Cycling, forward

FRAME

High step, mountain bike frame



500W geared hub motor

Mechanical brakes

27.5"wheel. Smart Sam tire (knobby, more grip)

MI6

Mechanical Brakes One wheel size

VS

PEAK

Hydraulic Brakes Two wheel sizes



25-55 MILES

500 WATT

48 v **10** AH

PER CHARGE

MOTOR

LI-ION BATTERY

USE

20mph

Urban riding, commuting, leisure **BODY POSITION**Standing **MAX SPEED**



350W motor

Mechanical brakes in front and back

10" pneumatic tire (inflatable)

ELECTRIC SCOOTER

Lower cost, very little manpower, relies almost totally on motor/battery, more portable

VS

ELECTRIC BIKE

Higher cost, manpower or motor power, more powerful, further distances



MANAGEMENT

The Management team handles operational and business success. They design, implement, maintain, and guide company growth.

RESEARCH & DESIGN

The research & design team focus on all things product production. They ensure that products are innovative, well-designed, and drive industry growth.

OPERATIONAL & CUSTOMER SUPPORT

This team works to support internal and external success through organization, administration, and relational excellence.

ACCOUNTING, FINANCE, & LEGAL COMPLIANCE

This team ensures that the financial success of Magnum Bikes is met through compliance and monetary growth.

INVENTORY & LOGISTICS

This team maintains international and national supply chain and physical product.

SALES

Retail Sales

The Retail team works directly with end customer to ensure overall customer satisfaction, meet sales goals, and promote the Magnum brand.

Wholesale Distribution

This sales team connects with partners to distribute, promote, and drive company growth.

B2B Sales

The B2B team works in conjunction with various partners to lead commercial sales.

MARKETING, MEDIA, & ECOMMERCE

This team works to develop and maintain brand image, voice, and content across various public channels.

TECHNICAL SUPPORT

The tech support team are product specialists that provide product assistance both internally and externally.

ASSEMBLY

The Assembly team works to build and maintain quality control of product.



International Distribution Centers

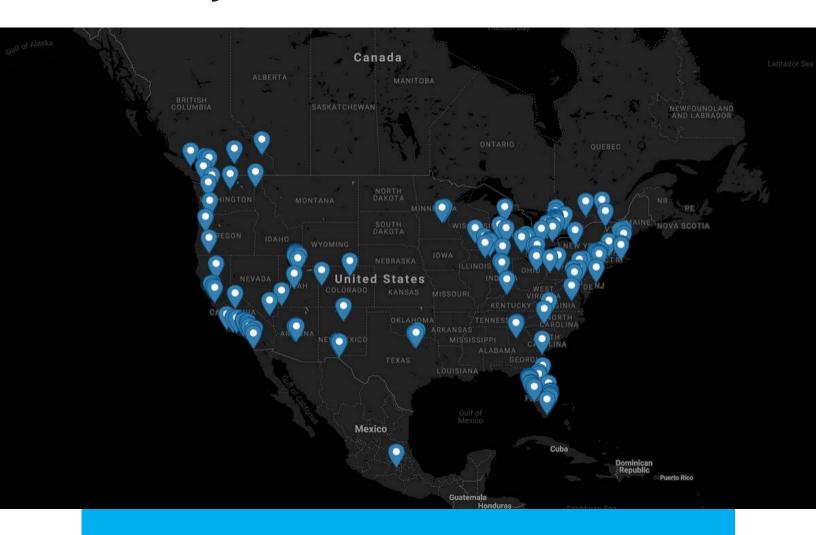


Magnum Bikes has distribution centers located in:

USA Canada Israel New Zealand



Magnum Bike Dealers



Magnum Bikes has over 200 certified dealers across the United States. They sell Magnum e-Bikes, and do maintenance and repairs on the bikes.