MEGA MOTION JD1 Hoverboard Self Balancing Scooter User Manual

MEGA MOTION®

V2021.01.1
User Manual

- Thank you for choosing one of our Self-balancing electric scooters series
- Self-balancing electric scooters are high-tech products, light, and double-wheeled vehicles
- Please read all safety instructions before operating this vehicle.
- <User's Manual > can guide you through all the functions and usage of the product

WARNING!
Warning: this product might be limited to use on a private road (check the regulations in force in the territory of use). We recommend using suitable protective equipment.

- Please familiarize yourself with how to operate the product before using it for the first time. This way you can use it in its best condition, otherwise, you may crash, fall or lose control of the scooter, etc.
- The <User Manual > can help you learn to drive this electric scooter safely.
- < User Manual > has told all the instruction and notes, If the operator fails to follow the instructions or violate the warning, our company won t be responsible for any related results.
- If you want to get the services and technical support, you can contact the local agency or our company.

Contents

Chapter I General Information

1.1 About the manual

Please read all instructions for safe assembly and operation before operating this vehicle. < User Manual > can guide you through the functions and usage of a self-balancing electric scooter. The user's manual is applied to all the smart Vehicles made by our factory. If you have any questions or you cannot get the information you want from the manual please contact our company or your local representative.

1.2 The risk of driving

The self-balancing electric scooter is a smart transport and recreation tool. Its technology and the progress of production are tested seriously. However, if you don't follow the requests of the manual, you may get hurt.

WARNING!
No matter when and where falling, losing control, crushing, etc, including violating the rules of the user's manual may cause you injury. In order to avoid getting injured, please read this manual carefully.

1.3 The preparation before operation.

Before using, the battery should be checked whether fully charged. Please find more details in Chapter VII. You may be injured when you do not follow the rules in the manual.

1.4 Related explanation

Please pay more attention to "WARNING" and "NOTE" which are all capital alphabets.

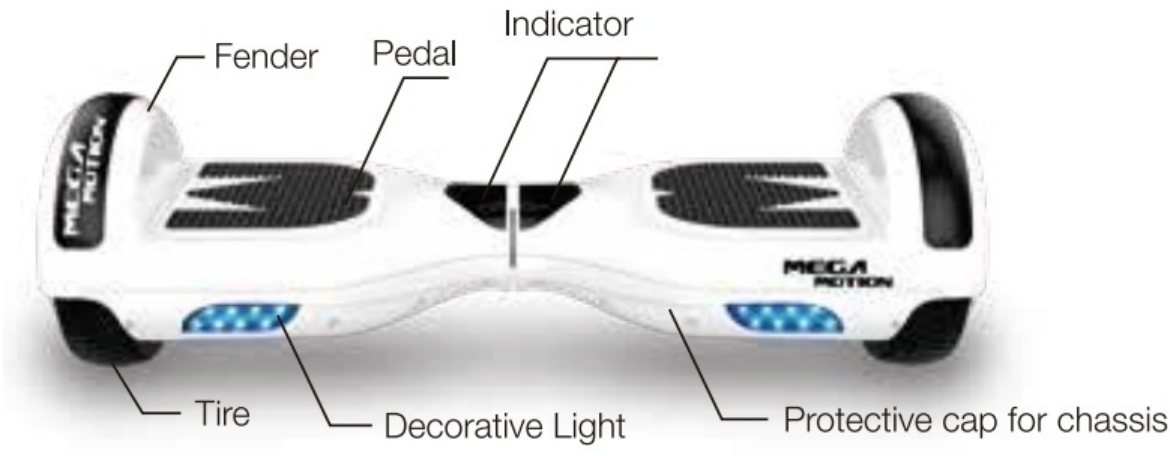
WARNING!	Your importer behavior will invoke you into a dangerous condition.
NOTE:	The matters and the related using methods that need your attention.

Chapter II Product introduction

2.1 Description of the electric scooter

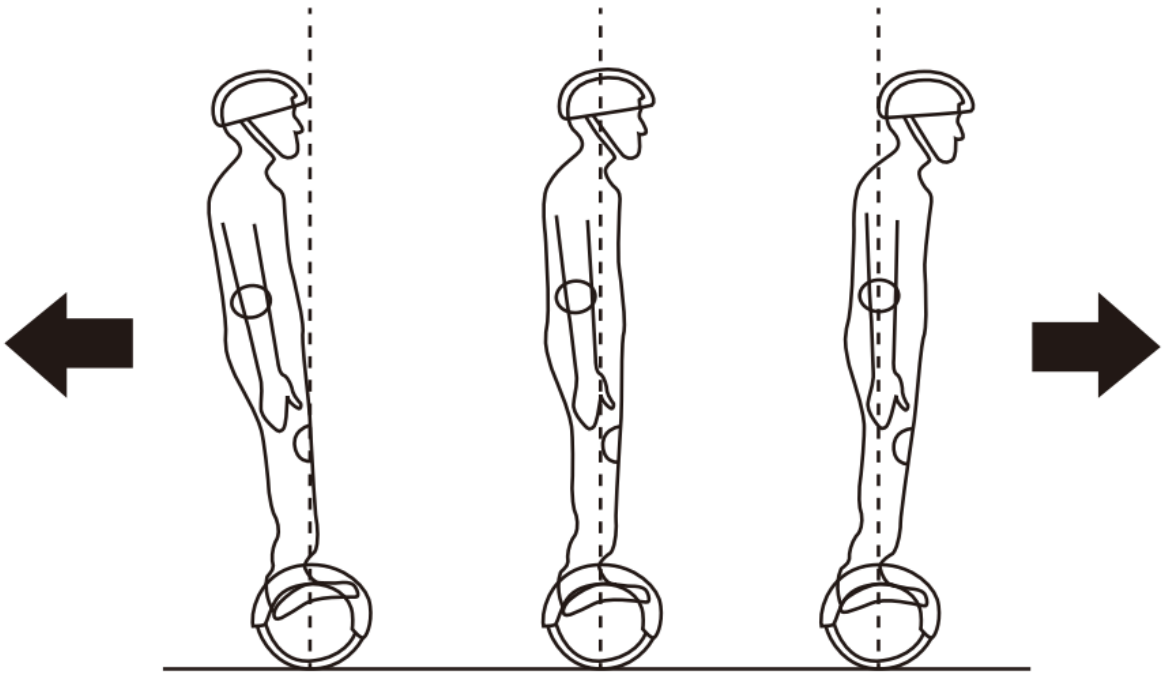
A self-balancing electric scooter can go forwards, backward, steer, and stop controlled by dynamic equilibrium. It possesses a fashionable appearance, simple operation, easy to control, low-carbon and environmental protection, etc advantage. It is a great companion.

2.2 Accessories



2.3 Operating principle

- Self-balancing electric scooter adapts Dynamic equilibrium, using an internal gyroscope and acceleration sensors. The status of the electric scooter is controlled by the center of gravity. by the center of gravity of the user And it is adjusted by a motor which is controlled by the servo control system. When you lean forward, it will sense your actions accelerate. When you need to swerve, slow it down and move your foot forwards or background then the center of gravity of the body moves left or right therefore the scooter can realize left or right.
- The self-balancing electric scooter has an inertial dynamic stabilization system, so it can keep anterior-posterior balance but cannot guarantee the left and right. Therefore the scooter needs to be operated slowly when swerved„ you may get injured because of the large centrifugal force.



Chapter III Information indicates devices

3.1 Pedal sensor

The self-balancing electric scooter has 4 sensors below the pedals when the operator steps on the pedal, the scooter will adjust itself to the balancing pattern automatically. When ridding it, you have to make sure that the pedal is being stepped on, please don't step on the parts outside the pedal. Don't put things on the pedals to make the scooter cannot be turned off and increase the possibility of crushing and even causing personal injury and damage to the scooter itself.

3.2 indicator

The indicator is located in the middle of the scooter. It is applied for operation information.

- Battery indicator part: Green light means fully charged, when the green light turns yellow means there is a half battery, turning red means 20% battery, the scooter needs charging.
- Operation indicator: when the pedal is triggered, the operation indicator will lights when the system comes into operating conditions, when the system runs an error, the indicator will turn red.

3.3 Bluetooth Speaker

If you have purchased a Bluetooth version, you will hear a Bluetooth tone after booting up, it will be a short piece of music or a sentence voice. Then you can connect your scooter to your smartphone via Bluetooth.

Chapter IV About Safely Use

We hope every operator can ride the scooter safely and enjoy it. Thinking back to the experiences when you learn riding a bike, driving cars, go skiing, or use other transportation tools, all of them can help you to learn about the scooter faster.

- Following the <User's manual>, you can ride a self-balancing electric scooter safely. We highly advise you to read the manual carefully the first time. Before riding, make sure the tires are good, and the spare parts are tight, If there is anything abnormal, please contact the agency for repair immediately.
- Please read the manual carefully, from it you will get much important information, including speed limitation, indicator warning and turn off safely, etc.
- Please never use the scooter to do anything that may cause personal injury and property loss.
- Please don't modify the spare parts of the electric scooter. Because it can influence the capacity of the scooter badly and even destroy it, meanwhile, some side effects may happen.

4.1 The weight limitation of the operator

- The reason for the weight limitation: 1, guarantee the safety of the operator; 2 decreases the damage of overloaded.
- Maximum load: 100KGS
- Minimum load: 20KGS

WARNING!:
Overloading may make you fall

4.2 Range per charge The range per charge is related to many factors, for example:

- Topography: When driving on a flat road, the driving mileage will be longer, otherwise the driving mileage will be shortened.

- Weight The body weight of the operator can influence the driving mileage Temperature: Place the scooter at an appropriate temperature will increase driving mileage. In contrast, if placed at an extreme temperature, it will decrease the driving mileage.
- Maintenance: If the scooter is properly charged and the battery is in good condition, it will increase the driving mileage. In the opposite case, it will reduce the driving mileage.
- Speed and driving style: Maintaining a moderate speed will increase the driving mileage. Conversely, frequent starts, stops, accelerations, and decelerations will reduce the driving mileage.

4.3 Max Speed

- The maximum speed of the scooter depends on the model you have chosen.
- When the scooter exceeds the maximum speed, it will sound an alarm.
- At a permissive speed, the electric scooter can balance itself well. When the speed is faster than the permissive speed, it will turn up to warn the operator to slow down.

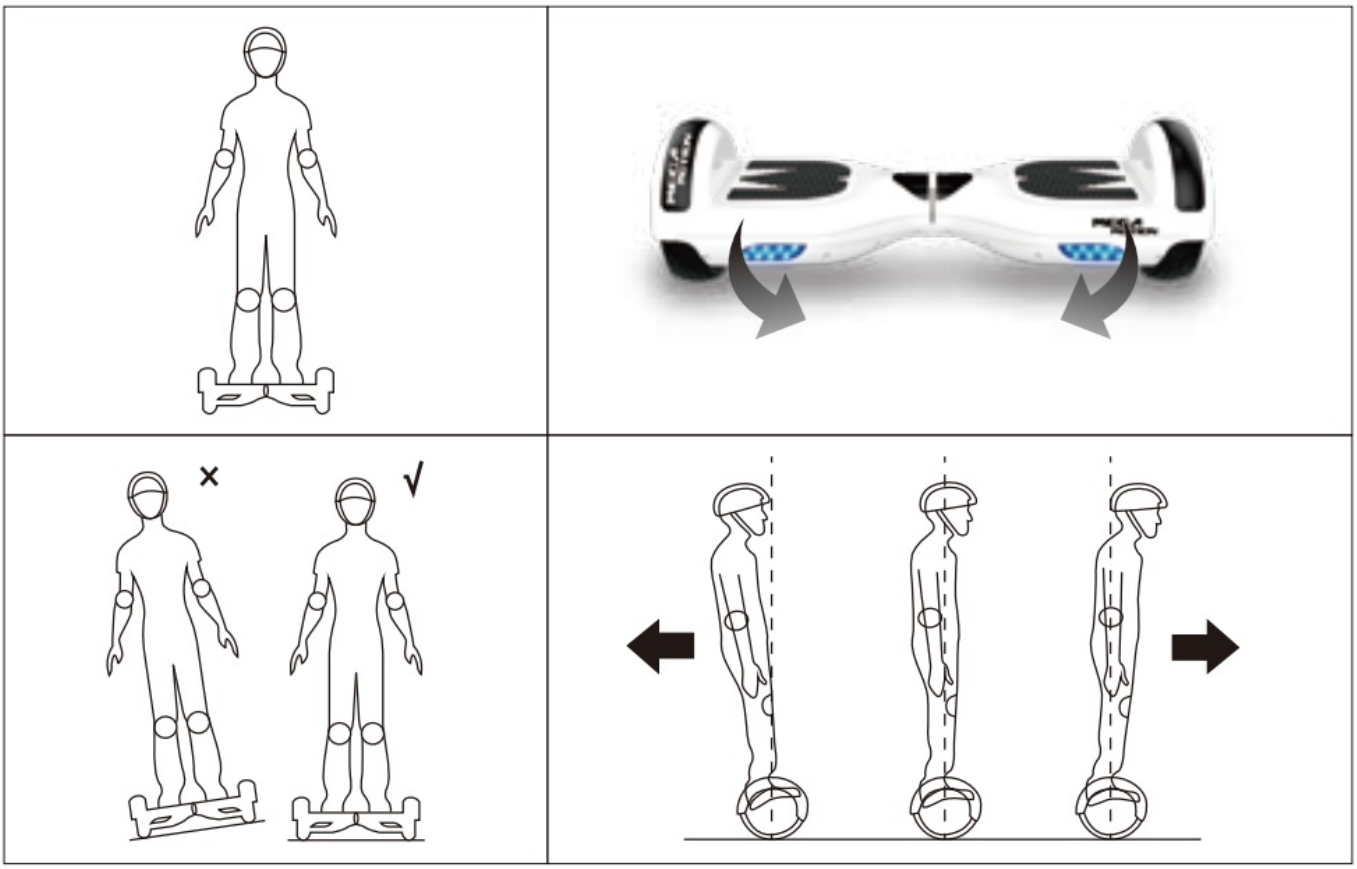
Chapter V Learn how to use it

<User's Manual> has told all the instructions and notes, the operator must read it carefully and follow these instructions. It is very important for you to know all these notes.

5.1 Learn how to use it

Step 1: Press the power switch to turn on the self-balancing electric scooter.
Step 2: The preparations for driving. First, step on one foot to trigger the foot switch on the pedal, and the system will enter the self-balancing state. Then step on the other foot to the other side to operate it.
Step 3: Take control of the scooter forwards or backward. The movement of the body cannot be dramatic while driving.

NOTE:
If the scooter doesn't have a balancing condition when you trigger the foot switch, the
the buzzer will alarm. And the warning LED will light, the system cannot come into self-balancing condition. At this moment you shouldn't operate.
Step 4: Control the left and right direction of the scooter.
Step 5: Get off. Before getting off, make sure the scooter is still on, then leave one foot and then leave the other foot.



You are forbidden to turn violently when driving fast otherwise it will be dangerous. You are forbidden to ride sideways or swerve on the slope, for It will lead to the balance angel skewing and then endanger your safety.

5.2 Protect function

- During operation, if the system runs incorrectly or is illegally operated, the scooter will prompt operators in different ways like prohibit riding, alarm indicator lights, and buzzer alarm beeps intermittently. The system cannot enter self-balancing mode.
- When stepping on the scooter the pedal goes forwards or backward more than 10 degrees.
- The voltage of the battery is too low.
- During charging.
- During operation, the pedal is unturned and prohibits operation.
- Over speeding.
- The power is not enough.
- The electric scooter shaking back and forth for more than 30 seconds.
- The system enters into protection mode, with alarm indicator lights, and buzzer alarms of high frequency.
- The platform goes forwards or backward more than 35 degrees, the electric scooter will directly into stop mode.
- Tire stall, two seconds later the electric scooter enters power-off mode.
- The battery voltage is lower than the protection value, 15 seconds later the electric scooter enters into power-off mode.
- Continuing large current discharge (such as a long-time climbing a very steep slope), 15 seconds later the electric scooter enters into power off mode.

WARNING!
When the scooter enters the off state, the system will automatically lock the scooter. It can be unlocked when the

lock button is pressed. Do not continue driving the scooter when the battery is exhausted or the system signals a safe shutdown. The scooter cannot be balanced when the battery is low, and in this case, the driver may be hurt. If the battery reaches a minimum, continuing to drive the scooter will affect the battery life.

5.3 Riding practice
Before driving the scooter outdoors, please make sure you are familiar with the skills of driving :

- Please wear casual wear and flat shoes as much as possible to maintain flexibility.
- Practice driving the scooter in an open space until you can easily get on, go forward, go back, stop and get off.
- Make sure the road is flat.
- When you are familiar with that the scooter must be slowed down in which terrain, you can drive on different terrains. And you can drive the scooter off the ground at any time.
- The self-balancing electric scooter is a transportation vehicle designed for smooth roads Please slow down to ensure safety when driving on uneven roads.
- If you are not familiar with scooters, please avoid driving to a place that has pedestrians and obstacles, and other potential risk factors. Be careful when entering the door to ensure that the scooter can pass.

5.4 Reset
The steps to reset the scooter are as follows:

1. Make sure the hoverboard is fully charged.
2. Keep the hoverboard pedal parallel to the ground.
3. Turn off the hoverboard; then press and hold the power button for about 10 seconds. (You will see the LEDs flash 5 to 6 times and light up continuously after 6 flashes)
4. Turn off the hoverboard once more to finalize the recalibration.
5. Turn on the hoverboard and it will be in good condition again, and you can continue to use it without fear.

Chapter VI Safely driving

This chapter will focus on safety knowledge and warnings. Read all instructions for safe assembly and operation before operating this vehicle. <User Manual> can guide you through the functions and use of the self-balancing electric scooter. Please read the user manual carefully before driving to ensure that our products will give you the best driving experience.

WARNING!

- Please familiarize yourself with how to operate the product before using it for the first time. This way you can use it in its best condition, otherwise, you may crash, fall or lose control of the scooter, etc.
- When you learn to drive the scooter please make sure that all safety measures are taken. Like wearing a helmet, knee pads, elbow pads, and other Protective gear. • Self-balancing electric scooters are not allowed on motor vehicles.
- Children weighing less than 20kg, aged, and pregnant women are not allowed to drive.
- Do not drive after drinking or taking drugs.
- Do not carry anything while driving.
- When driving a scooter, you should follow local traffic regulations and give way to pedestrians.
- Please pay attention to the things in front of you. Maintaining good vision will help you drive your scooter

safely.

- Relax your legs while driving and bend your knees slightly to help maintain balance when you are facing the uneven ground.
- Make sure your feet are always on the pedals while driving.
- Self-balancing electric scooters can only load one person and cannot load two or more people.
- Do not suddenly start or stop.
- Avoid driving on steep slopes.
- Do not drive in dim areas.
- The weight of the user and their belongings should not exceed the maximum load indicated in the instruction, otherwise, the driver may easier to fall or be injured, or even damage the electric scooter. In addition, the driver s weight should not be less than the minimum weight as marked in the instruction. otherwise, the scooter will not be able to be manipulated, especially when going downhill, the scooter cannot slow down or stop safely.
- Make sure driving speed is safe for yourself and others, and be prepared to stop at any time.
- When you are coming across a traffic accident, please remain at the place awaiting the arrival of the relevant departments to deal with it.
- When you are driving the scooter along with other driving users, please keep a certain distance from each other to avoid collisions.
- Always keep in mind that you have increased the height by 10 cm when driving the scooter. Pay attention to your head when passing the door.
- When steering you should notice your body's center of gravity, the violent movement of the center of gravity may cause you in danger. o not ride on rainy days as well as long-distance running backward, high speed running backward, backward at high-speed cornering, and over speeding. personal transportation has not been designed, tested, or related to becoming a medical device. Therefore, the users must ride the electric scooter by themself.
- Avoid driving to obstacles and overly smooth ground such as snow. ice, and slippery floor.
- Avoid driving on the ground made up of cloth, twigs, and stones.
- Avoid driving in tight spaces or in places with obstacles.
- Please drive the scooter in the proper environment. If you need to get permission from others in this environment, please get their permission first.
- Prohibit in an unsafe environment. These unsafe environments mean flammable, vapor, liquid, dust, or fiber that can easily cause a fire.

Chapter VII The usage of the battery

This chapter focuses on charging methods, how to maintain the battery, safety issues to be aware of, and battery specifications. For the safety of you and others and to maximize battery life and battery performance, be sure to use the battery as described below.

7.1 Low battery

When you notice that the battery indicator is red and flashing, it indicates a low battery. It is recommended that you stop driving. When the power is low, there is not enough energy for you to drive normally, then the system will automatically tilt the base of the platform to prohibit the operator from continuing to use.

- Do not use the battery in the following cases.

  1. The body emits an odor or overheating.

2. Any substance leaks.

- Professionals only disassemble and maintain the battery.
- Do not touch anything that leaks from the battery
- Do not let children and animals touch the battery. The driver must pull out the battery or charger before installing the battery. You can not do anything with the electric scooter while charging.
- The battery contains dangerous substances inside, so do not disassemble the battery and do not insert anything into the battery.
- Use only qualified chargers supplied by a formal company.
- Do not over-discharge the lithium battery. Excessive discharge may cause safety hazards and is limited to scrap batteries.
- The battery can only be used under the permission of the local law.

7.2 Charging steps

- Ensure the charging port is dry
- Firstly plugged the switch into the power interface (1ooV-24CN:5o,6oHz). verify that the green light is on properly, then plug the other end of the charger into the scooter.
- When the red indicator on the charger lights up to indicate normal charging, otherwise check if the line is connected.
- When the indicator light on the charger from red to green indicates that power is fully charged. In this case, please stop charging. Overcharging will affect the battery life.
- Note to use the local standard plug.
- Please follow the instructions to charge and store, otherwise, it will damage the battery and affect the battery life.
- Please keep the charging environment clean and dry.
- Do not charge it when the charging port is moist.

7.3 The temperature is too high or too low

- If you want the scooter in good operational efficiency, the battery temperature must be controlled among the range of specifications.
- Temperature before charging and charging process must be within the recommended v Ares. Close to the recommended temperature, the charging efficiency is the highest, if it is too cold or hot, the charging time will be longer, or not fully charged.

7.4 The specification of the battery

NAME	PARAME
Battery	Lithium-i
Voltage	36 V
Working Temperature	-15 ~ 50
Charging Temperature	0 ~ 40 ºC
Relative Humidity of Storage	5% – 95%

7.5 The transport of the battery
WARNING!
Lithium batteries are considered to be hazardous materials. Its transportation of it needs to be allowed by local law.

Chapter VIII The maintenance of the electric scooter

Self-balancing electric scooters need to be maintained. This chapter focuses on the steps and important operational reminders for maintaining it. Please make sure that the power and charge coil is off before you do the following operation. Your ban before cleaning: 8.1 Cleaning

- To make sure the power and the charging coil are off.
- Wipe the shell of the electric scooter with a soft cloth.

WARNING!

- The level of dust-proof and waterproof is IP54 and can prevent wee dust and splashing water.
- Avoid water or other liquids from penetrating into the scooter’s main unit to avoid permanent damage to internal electronics. 8.2 Storage
- Before storage, fully charge the electric scooter to prevent battery over-discharge due to it’s not been used for a long time.
- If the storage time is more than a few months, please charge it once a month.
- Do not charge the scooter if the storage temperature is below 0 degrees Celsius. You can charge it in a warm environment (above 10 degrees Celsius).
- You can mask the scooter to prevent dust from affecting its performance.
- Keep store the scooter indoors and put it in a place with dry air and a suitable temperature.

WARNING!
To protect user security, the users are forbidden to disassemble the scooter, otherwise, it means you will give up your warranty right.

Chapter IX The specification of the electric scooter

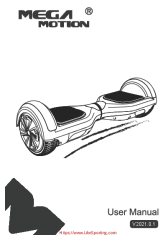
Specification		
Name	Parameter	
Gross Weight	8 KGS	
Minimum Load	20 KGS	
Maximum Load	100 KGS	
Maximum Speed	<15 KM/h	Distance varies depending on terrain, driving style, and load.
Climbing Capacity	<15°	
Radius Of turning Circle	360°	
Energy	Rechargeable Li-ion Battery	
Charger Voltage	100-240V 50-60Hz	
Dimension	584*186*178MM	
Chassis Height	30MM	
Pedal Height	110MM	
Tire Model	Full non-inflatable Tire	

Chapter X Packing list

	NO.	Name	Quantity
6.5″	1	Self-balancing electric scooter	1
	2	Charger	1
	3	Manual	1

Hope you can enjoy it
https://www.LikeSporting.com

Documents / Resources

	**MEGA MOTION JD1 Hoverboard Self Balancing Scooter** [pdf] User Manual JD1, Hoverboard Self Balancing Scooter, Self Balancing Scooter, Hoverboard, Balancing Scooter, JD1, Scooter

References

- **Likesporting-Treadmills,walking machines,elliptical machines and other fitness equipment mall-Likesporting.com**