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## *Bicycle From Europe*

WORLD'S LEADING NO. 1



## About us

Space Cardan was set up in 2010. After 7 years development in this industry. Public bicycle industry increased rapidly in China.

Space Cardan had only 20 employees at the very first time. But now the number of employees reach 500 people. The registered capital was 4 million RMB in the past.

The annual output increases to 25 million RMB in 2015. Space Cardan owns 28 sets of lathe, 11 sets of automatic knife change milling machines, 2 sets of grinder machine, 1 set of broaching machine. Annual output capacity can reach 80,000 sets. Space Cardan is one of the Chinese companies that have the ability and experience to export Europe, the US and Asia.

Space Cardan also established long-term business relationship and cooperation with the world's largest public operators JCDecaux (provide city public bicycle service for some cities include USA JCDecaux group, which operates in Paris, Lyon etc..) and CLEAR CHANNEL (USA clear channel communications company, operate public bicycle service in Barcelona cities public bicycle service).

Space Cardan is a professional enterprise with a full range of supporting services. Product research and development, manufacturing, project planning, project construction, software development, daily operation and advertisement operation etc.

Different subsidiary corporations operate independently. But all of them belong to Space Cardan and have the same goals and purposes.



## Shaft drive public bicycle system



Main cities:

- Zhuzhou in Hunan 20,000 sets
- Nanning in Guangxi 20,000 sets
- Wuhu in Anhui 12,000 sets
- Yantian in Shenzhen 7,000 sets
- Shunde In Guangdong 6,000 sets
- Liuyang in Hunan 5,000 sets

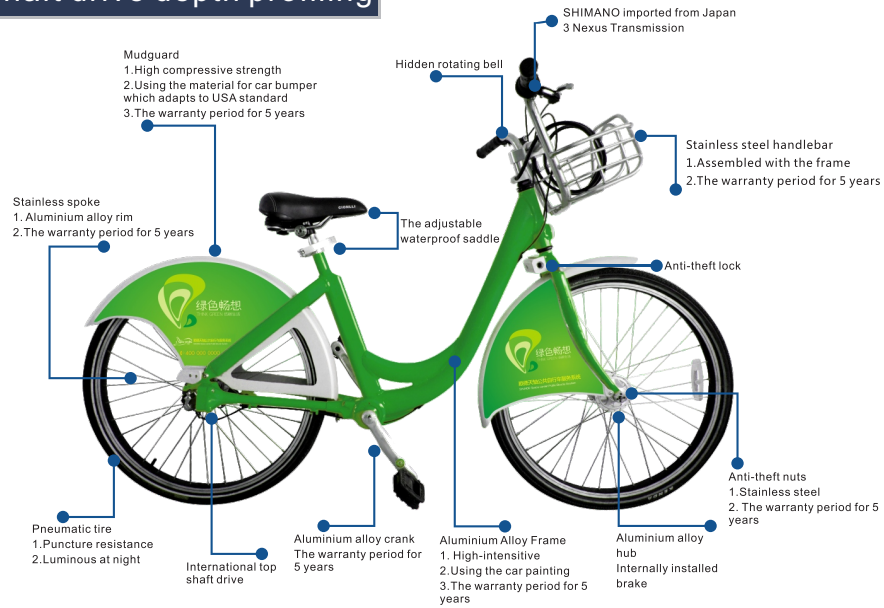
## Chain bicycle sharing system



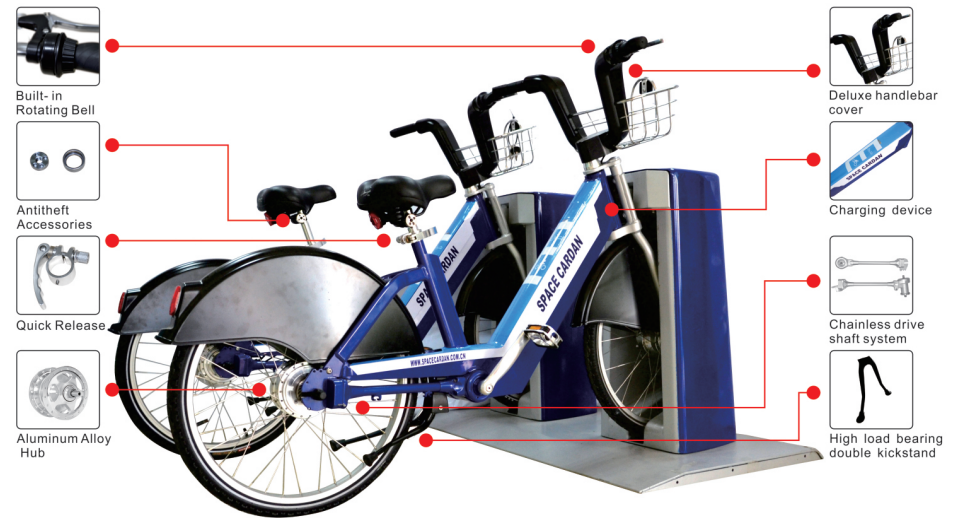
Main cities:

- Zhuhai in Guangdong 8000 sets

## Shaft drive depth profiling



## E-Bike depth profiling



## Optional style

### Chinese style



### Foreign style



## Parent-child public bicycle



## Intelligent management box



Box material: stainless steel 304# material, thickness over 1.2mm, matte;

Working temperature: - 40°C to 90°C;

Humidity: 93% RH

Basic function:

- A. Turn on and turn down by one key.
- B. While meeting disastrous weather, the management system can control the docking only for return.

Citizens can be able to know more information from the intelligent management box, such as self-service of weather report, information announcement, real time checking of station nearby.



## Intelligent Docking Station



The water-proof outer casing is made of stainless steel, thickness of 2mm, 5 years guarantee that it is anti-rusty and corrosion;

There are two rotating gear style lockset which has patent on each side of the docking station;

The working temperature: - 40 to 90 °C, humidity: 93% RH, it can adapt to the northern cold climate conditions. (national quality inspection departments to provide test report)

The bicycle can be locked even if the lock machine is out of electricity;

Anti-theft design outer casing without any exposed standard parts. (key hole is not exposed);

The equipment can meet the normal use of outdoor environment, rainproof and dust proof;

The waterproof equipment, even the water logging is higher than 50cm, it can not damage the docking station and electronic equipment;

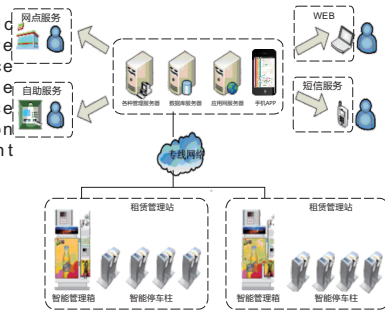
Proximity switch is installed inside the dock to prevent from being theft;

Every docking has independent card reader and the payment module, storage module.

## Automatic management system

- Using Browser/Server to simplify the system's development, maintenance and usage
- Including operation and logistic management and accounting management
- Collecting the dynamic data of temperature and voltage
- Integrated circuit control board adopts with electronic components on industrial level
- The system uses 32 bit CPU which has high integration
- Accounting system on the card reader using NXP chip can be compatible for CUP cards, travel card and other customized cards

Hardware composition of Space Cardan's public rental bicycle system include relative hardware support kit of the administration center and service points, public bicycles, management devices in the service points and intelligent parking posts. Space Cardan's public bicycle system realizes administration system intellectualization, station management intellectualization and monitoring intellectualization.



## Intelligent management system

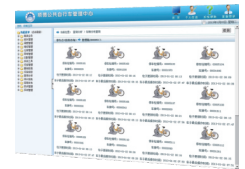
Intelligent management makes the service more flexible. The number of intelligent bicycle parking devices can be set according different situations so that it can reach intelligent scheduling and intelligent reporting.

## Intelligent scheduling

Automatic warning system is set inside the central management. If the network system shows that the number of public bicycles is more or less than the default number of intelligent bicycle parking system, background management center would send scheduling plan by SMS the dispatch operator in order to make sure that there are enough bicycles for people to ride. Dispatch operator needs to execute the scheduling plan as soon as he receive the message.

## Network management

It can receive the use condition of each lock pillar and show the accurate using condition. This network management can be used to check functions, electrical lock, card reader error. It can also warn the management system under unusual situation such as, bicycle borrowing or returning, expense, check the surplus and card functions.



## Intelligent monitoring

With different video monitor platform, it has long distance monitor function. Monitor can check all the video and watch a few videos at the same time. 7\*24 hours digitization storing. Both company management people and leader can check and supervise the bicycle sharing system.

## APP

People can download our Space Cardan APP which has the same functions of management box. People can check the card balance, stations, charge data, payment record. The app also support to search the nearest stations, map and phone mobile location. Intelligent logistic operation.

The operators can check the situations of near stations and make a logistic plan by the phone app instead of staying in front of the computer, when they are working outside. Therefore it can simplify the operating process, improve the efficiency as well as reduce the operation cost.



## GIS System Inquiry

When you use the app to search the information. GIS, a function included on the app, can search your proximate location automatically. Though the app, you can get the real-time conditions of the near stations.



Scan QR code to download mobile APP



▶ Station locate search



▶ Service and help



Barcelona in Spain



Milan in Italy



Perpignan in France



Monaco



### Liuyang in Hunan



### Zhuzhou in Hunan



### Nanning in Guangxi



### Shunde in Guangdong



## Personal bicycle

( Can be customized according to customers' requirements )

No. 1 :SC-EX1601-B



### Detail introduction

Material Frame: Aluminum alloy frame  
Front Fork: Suspension front fork Aluminum+Steel  
Wheel Size: 24 Inches  
Drive: Belt drive

Front Brake: Dis brake  
Rear Brake: Roller brake  
Tyre: Kenda pneumatic tyre  
Derailleur: SHIMANO 3 Nexus

No. 2: SC-EX1602-S



### Detail introduction

Material Frame: Aluminum alloy frame  
Front Fork: Suspension front fork Aluminum+Steel  
Saddle: Sports saddle  
Wheel Size: 26 inches  
Hub: SHIMANO 7 Nexus  
Drive: Shaft drive RC443.7

Front Brake: Dis brake  
Rear Brake: Roller brake  
Tyre: Kenda pneumatic tyre  
Derailleur: SL7S10  
Color: White, Black

No. 3:SC-EX1603-S



**Detail introduction**

Material Frame: Aluminum alloy frame  
Material Front Fork :Steel  
Material Back/Front Carrier: Aluminum alloy  
Saddle: public bike saddle with anti-theft device  
Wheel Size: 26 Inches

Drive: Shaft drive RC440  
Brake: Roller brake  
Tyre: Kenda pneumatic tyre  
Derailleur:SHIMANO 3 Nexus  
Color: Blue,White

No. 4:SC-EX1604-S



**Detail introduction**

Material Frame: Aluminum alloy frame  
Front Fork: Aluminum front fork  
Folding:YES  
Wheel Size: 16 Inches  
Rear Hub: SHIMANO hub

Drive: Shaft drive RC320  
Front Brake:V-brake  
Rear Brake:Roller brake  
Tyre: Kenda pneumatic tyre  
Derailleur:SHIMANO 3 Nexus

No. 5:SC-EX1605-S



**Detail introduction**

Material Frame: Aluminum alloy frame  
Front Fork: Aluminum front fork  
Wheel Size: 20 Inches  
Folding: YES  
Rear Hub: SHIMANO hub

Drive: Shaft drive RC385  
Front Brake :V-brake  
Rear Brake :Roller brake  
Tyre: Kenda pneumatic tyre  
Derailleur:SHIMANO 3 Nexus  
Color:Red,Blue

No.6:SC-EX1606-S



**Detail introduction**

Material Frame: Aluminum alloy frame  
Material Front Fork:Steel  
Material Front Carrier: Aluminum alloy  
Wheel Size: 20 Inches  
Rear Hub: SHIMANO hub

Drive: Shaft drive RC385  
Front Brake:V-Brake  
Rear Brake: SHIMANO Roller brake  
Tyre: Kenda pneumatic tyre  
Derailleur:SHIMANO 3 Nexus

No.7:SC-EX1607-B



**Detail introduction**

Material Frame: Aluminum alloy frame  
Front Fork: 14"V-brake front fork Steel  
Wheel Size: 14 Inches  
Rear Hub: SHIMANO Hub (SG-3R40)  
Drive: Belt drive

Front Brake:V-brake  
Rear Brake:Roller brake  
Tyre: Kenda pneumatic tyre  
Derailleur:SHIMANO 3 Nexus  
Color:Red , Black

No.8:SC-EX1608-S



**Detail introduction**

Material Frame: Aluminum alloy frame  
Front Fork: Suspension front fork Aluminum+Steel  
Wheel Size: 26 Inches  
Front Hub: Quick release hub  
Rear Hub: SHIMANO 3 Nexus(SG-3R40)  
Drive:Shaft drive

Front Brake:Dis brake  
Rear Brake :Rollerbrake  
Tyre: Kenda pneumatic tyre  
Derailleur:SHIMANO 3 Nexus  
Color:Black