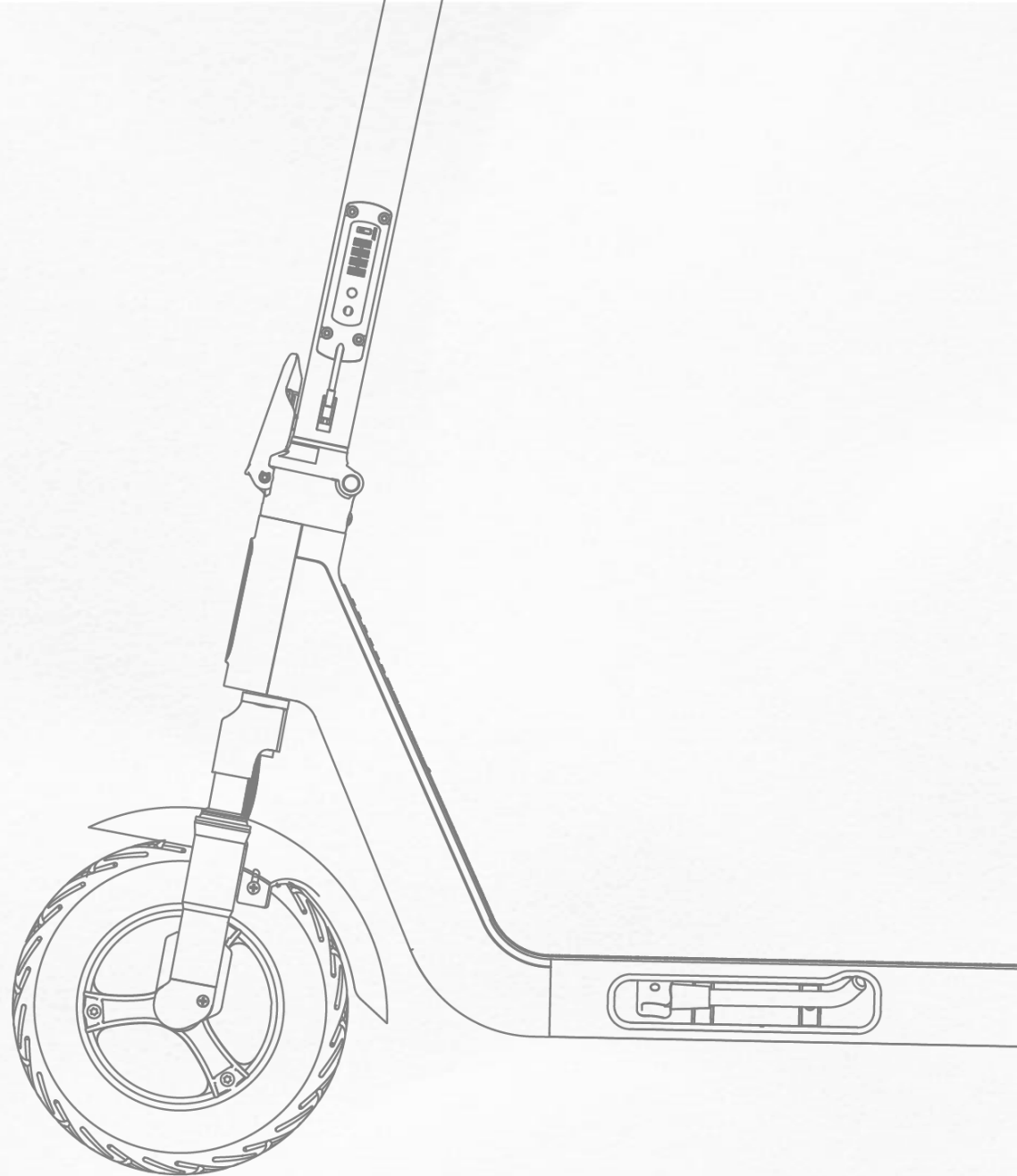


Kuickwheel

EVERYONE OWNS
A INTELLIGENT VEHICLE



CONTENTS

01 Introduction

02 Production

03 Products

04 Technologies

INTRODUCTION



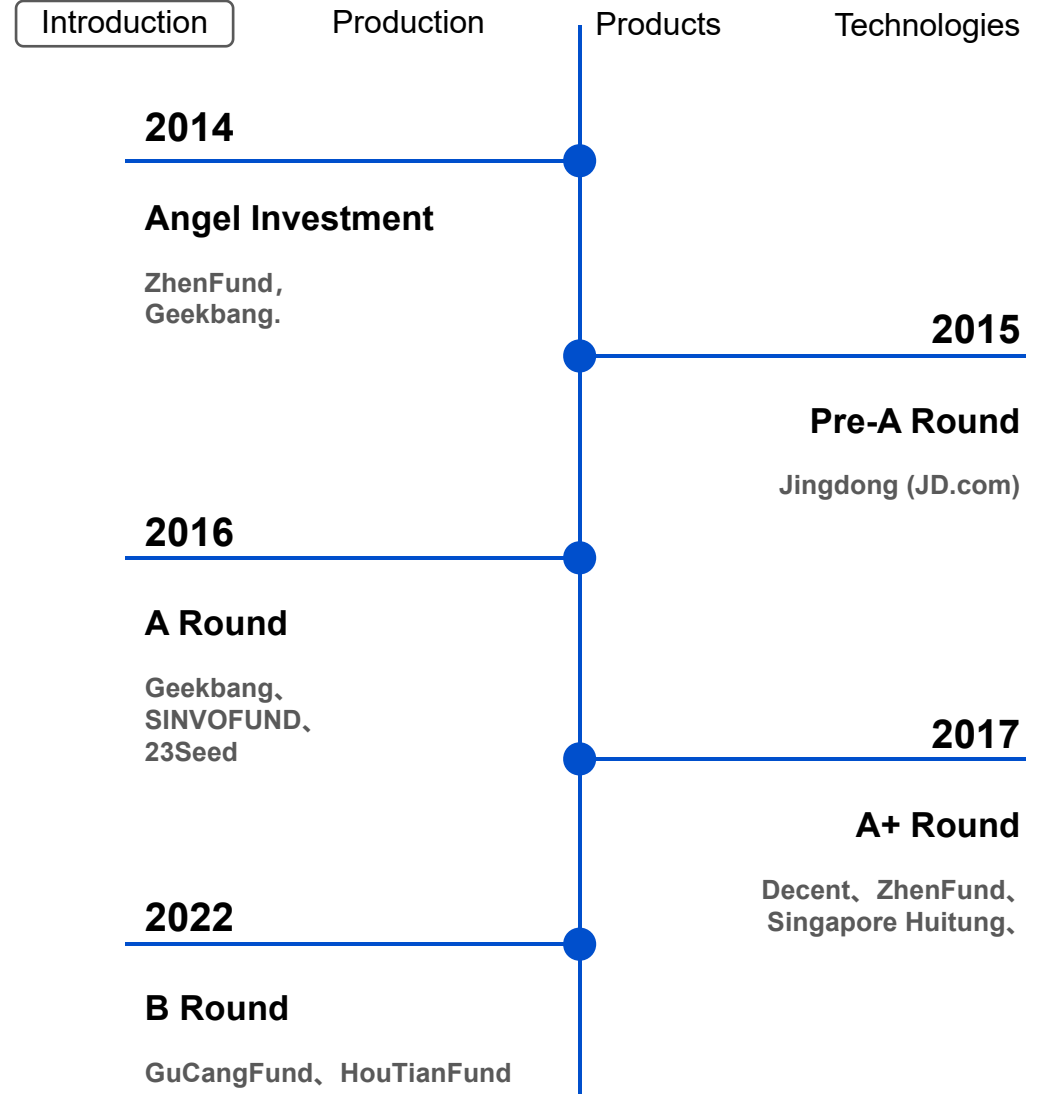
01

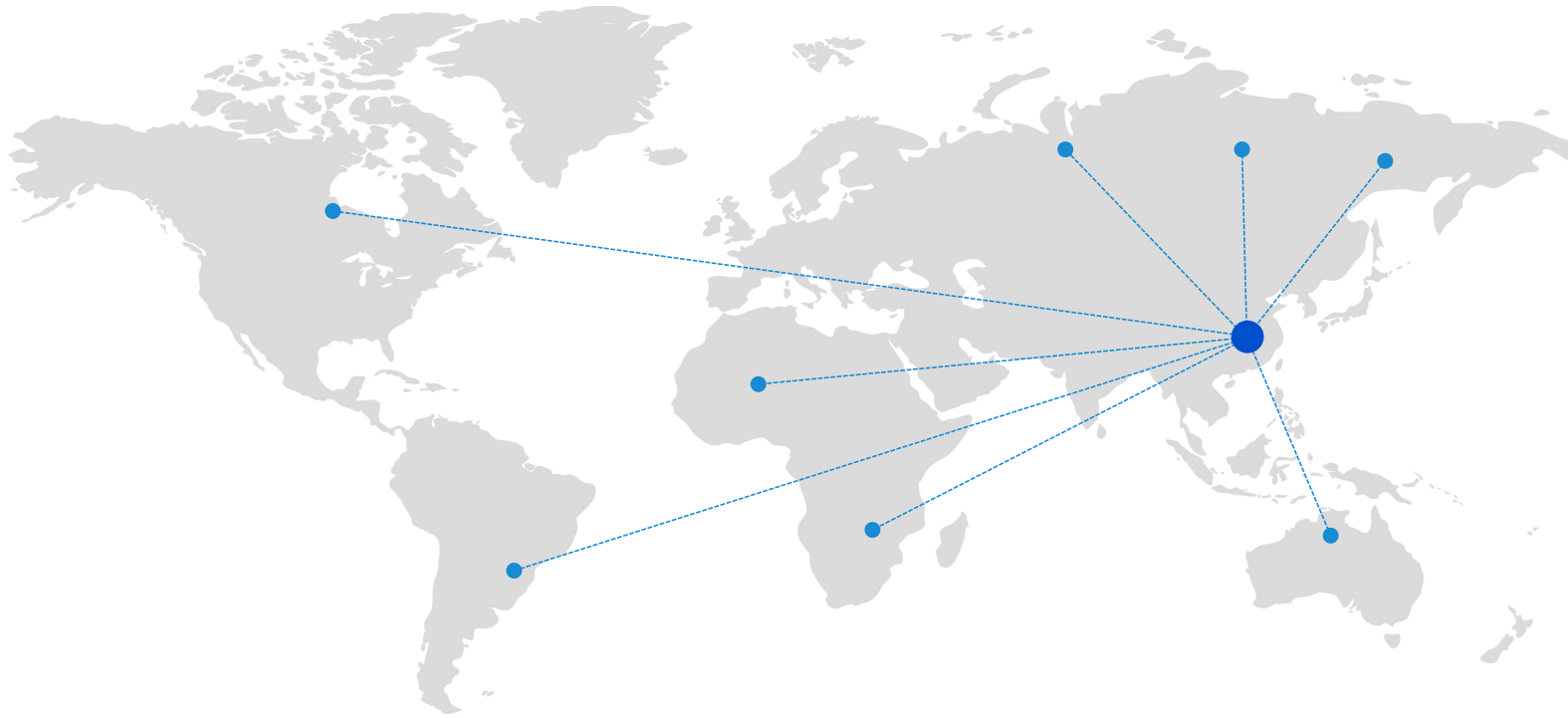


About Kuickwheel

Kuickwheel, founded in 2014, is a short distance commute device and solution provider.

We provide an end-to-end solution including ID design, algorithm, electrical engineering and mass production. We have more than 40 engineers so we are one of the few companies in china that can design and manufacture the controller, motor and battery module. At Kuickwheel we have a full line of consumer and commercial products, providing a premium riding experience and connectivity via phone app. Currently Kuickwheel products has been sold more than 150 countries and regions.





- 1. Jiangsu High-tech Enterprise
- 2. Innovation and Entrepreneurship Enterprise in Jiangsu Province
- 3. Nanjing cultivates unicorn enterprises
- 4. Jiangsu Province's key support for innovative enterprises

Last 5 mile

Solution

150+

Country

1000+ pcs

Daily Capacity

28000m²

Factory Size

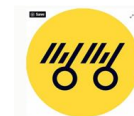
Our Partner

Introduction

Production

Products

Technologies





HUAWEI Smart Selection

Introduction

Production

Products

Technologies

Huawei Smart Selection is Huawei's smart home ecosystem brand, which is an important component of Huawei's holistic smart life strategy and part of the "1+8+N" ecosystem. To become a part of the Huawei Smart Selection family, vendors are required to have a certain level of deep technical expertise. Huawei provides support to these vendors in areas such as chipsets, AI, operating systems, and open platforms to collaborate on developing smart home products.



KUICKWHEEL





 **Hong Kong Electronics Fair (Spring Edition)**
香港春季電子產品展

KUICKWHEEL global sources **Electronics**

INVITATION

Booth: 2K13, Hall 2

Date:
April 11-14, 2023

Address:
Asia-World Expo Hong Kong



KUICKWHEEL 

VISIT KUICKWHEEL AT EUROBIKE 2023

JUN 21-25, 2023
MESSE FRANKFURT
HALL 9.0 E13



KUICKWHEEL

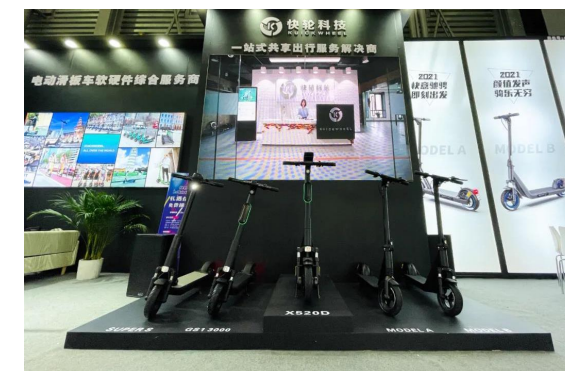
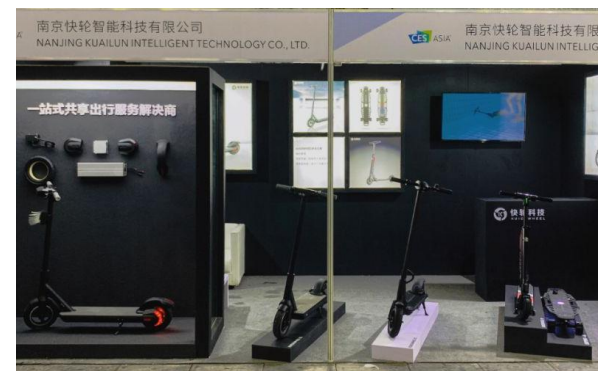
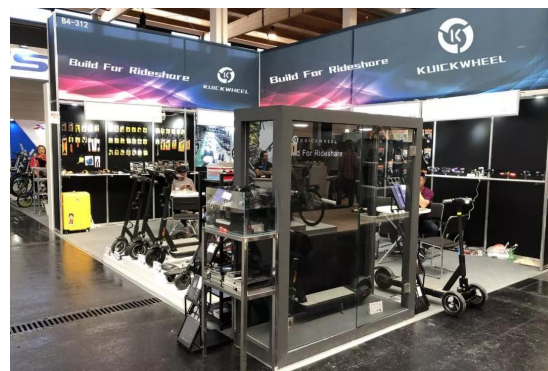
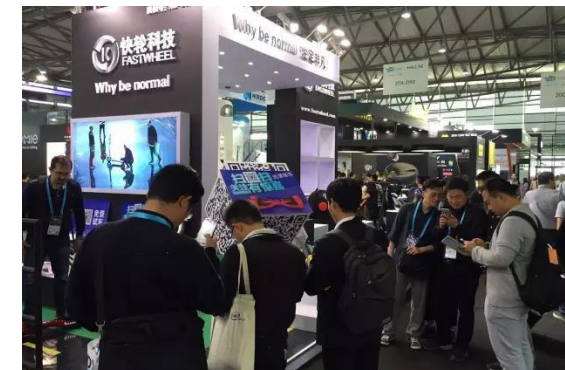
INVITATION

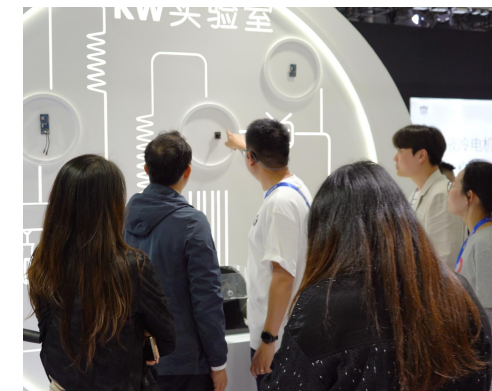
VISIT KUICKWHEEL AT EUROBIKE 2023

JUN 21-25, 2023
MESSE FRANKFURT
HALL 9.0 E13

Looking forward to your arrival.










Introduction

Production

Products

Technologies



\$200 MICRO BOOSTED BOARD
4.5M views
CaseyNeistat
EBAY CHARITY PROJECT; <https://www.ebay.com/>
4K
Build Quality | Real World Test | Epic



POWER RANGE AFFORDABLE
12:05



Quality Scooter
You've never heard of
5:39



Kuickwheel L'Immortelle
10:28



KUICKWHEEL
10:28



Waterproof Electric Scooter
11:48



LA KUICKWHEEL SC1-PRO !! REVIEW !!
25 KM/H !?
100 WATTS !!!
50 KM ?!
5:38

PRODUCTION



02



**Nanjing Production
Base 8000m²**



**Yancheng Intelligent Manufacturing
Base 20000m²**

28000m²

Production place

6 automatic

Professional production lines

1000+ units

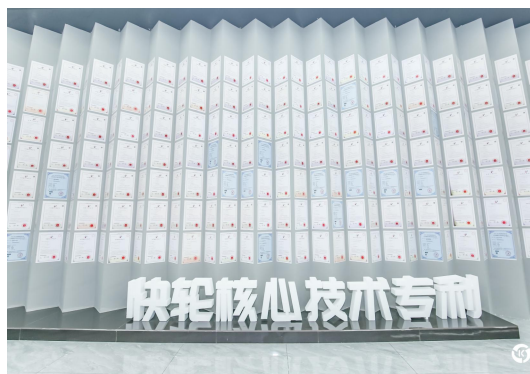
Daily capacity



KUICKWHEEL

Real scene of Nanjing Production base





KUICKWHEEL

Real scene of Yancheng Intelligent manufacturing base

KuickWheel Testing Lab

50+
Testing
Equipments

132
Testing
Standards

Participate in the formulation of national standards for electric scooters

Scooter fatigue endurance test
Horizontal insertion
force test
Battery weight impact test
drop test
Handlebar aging test
Salt spray test
Scooter horizontal impact test

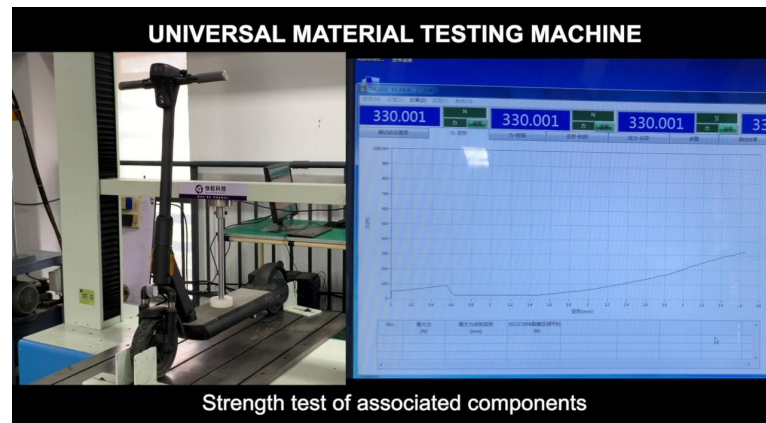
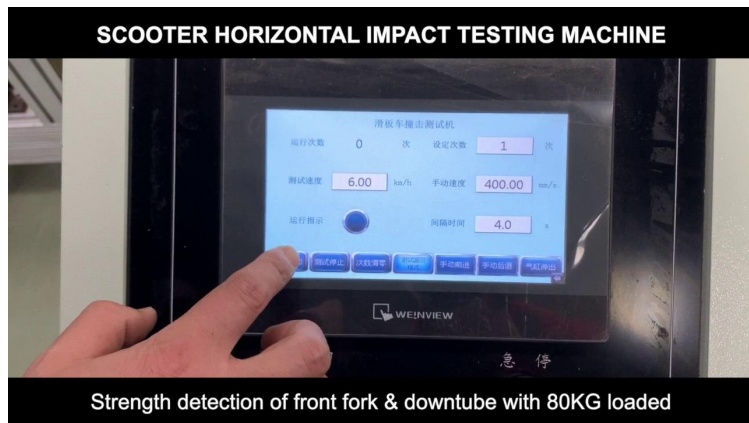
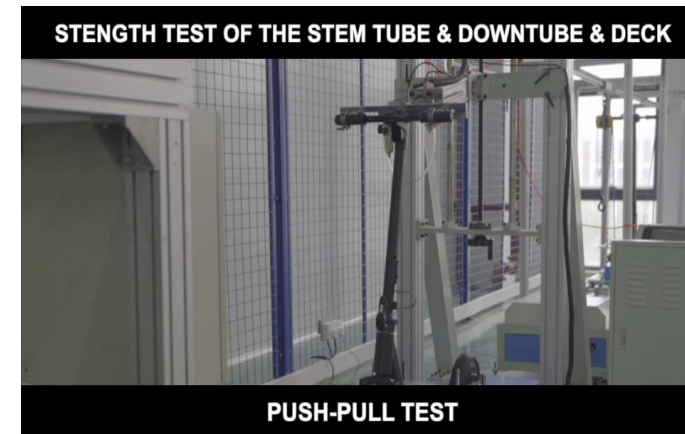
Vehicle rain test
Battery temperature control
short circuit test
Falling Ball Impact Test
Scooter horizontal thrust test
Motor performance test
UV aging test
Violence Test

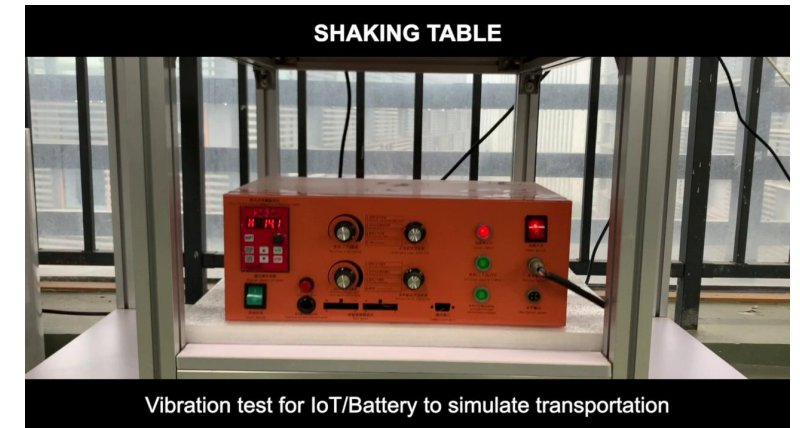
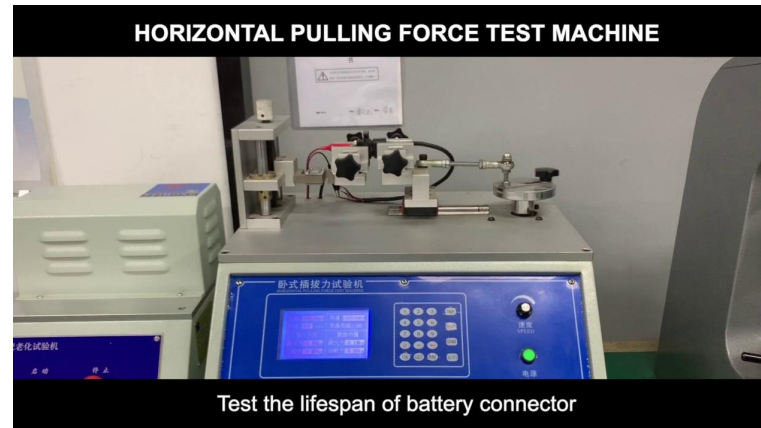


《电动滑板车通用技术规范》
国家标准启动会

2021年11月16日









PRODUCTS



03

KUICKWHEEL Travel Products

Personal Travel



Rideshare Travel



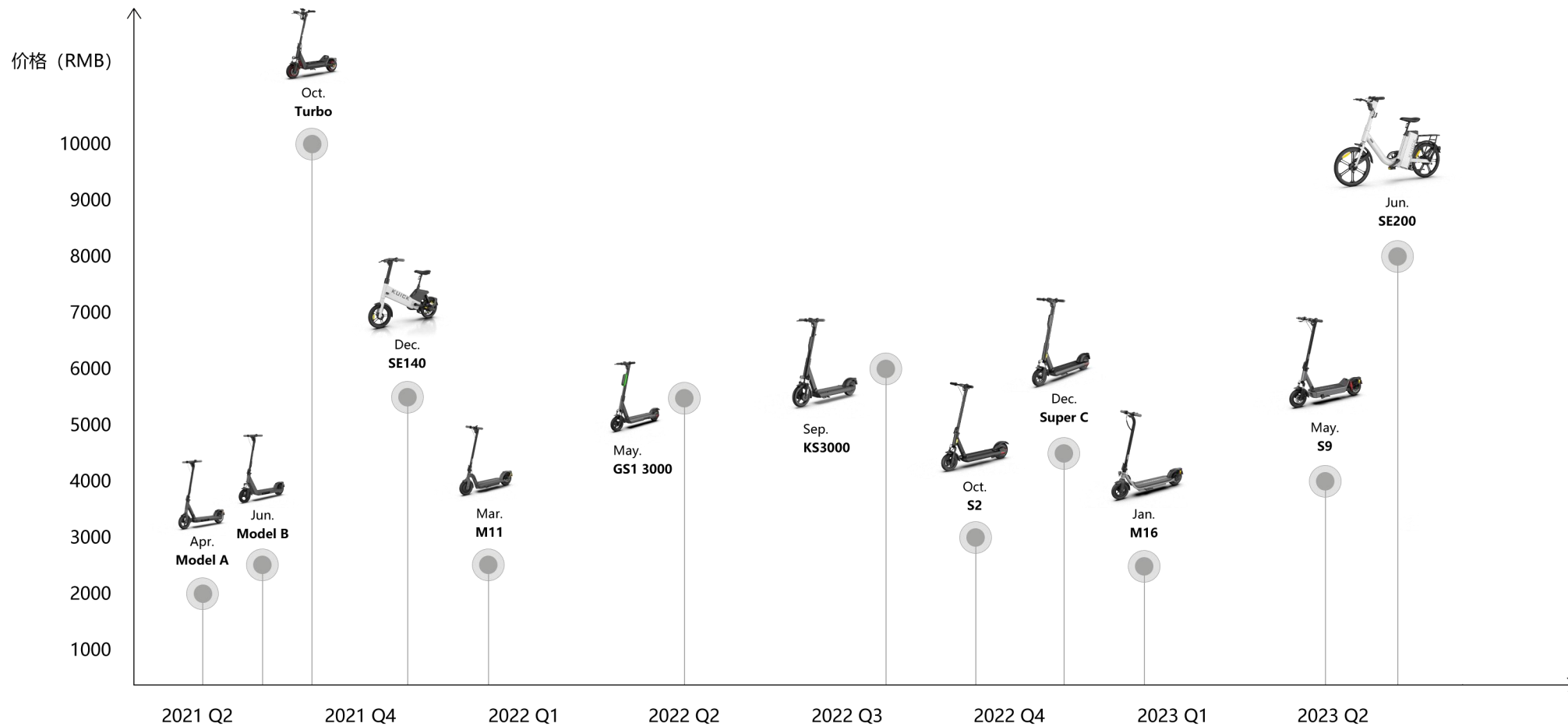
Roadmap since 2021

Introduction

Production

Products

Technologies





S9 E-Scooter

EN17128 + ABE Certification

01 Swappable battery



02 Front and rear double arm shocks



03 Front left and right turn signals



04 Led high beam tail light+ license plate



S2 E-Scooter



01 Dual suspension



02 Front drum brake +
Rear E-ABS brake



03 Headlight



04 Dashboard



M-16 E-Scooter



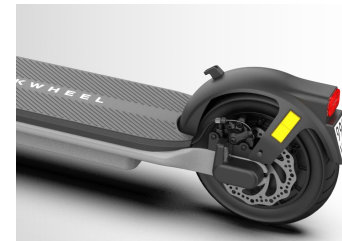
01 10inch pneumatic tire



02 Rear disc brake + E-ABS



03 LED taillight



04 Rubber handle





TURBO E-Scooter

01 Full colorLED display



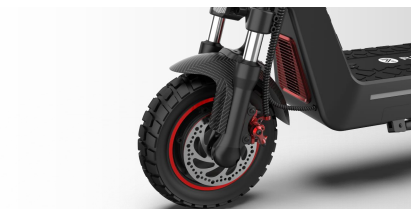
02 Swappable battery



03 Front and rear dual suspension



04 Wind cooling and heat dissipation



05 11inch Dual powerful motor



06 KDTC (Kuickwheel Dynamic Traction Control)



Model A

E-Scooter



01 LED high-definition display screen



02 Hidden kickstand



03 Aviation grade aluminum alloy frame



04 185mm ultra wide pedal



Model B E-Scooter



01 LED high-definition display screen



02 Front double arm shocks



03 Aviation grade aluminum alloy frame



04 185mm ultra wide pedal



S1-C Pro

E-Scooter



01 NFC card swiping unlock



02 IPX7 waterproof grade



03 The vehicle body comes with a railing lock



04 Car grade left and right turn signals



SE200

Sharing E-Bike



01 Swappable battery
(Common for KUICKWHEEL
rideshare products)



02 20inch Lightweight



03 Integrated head



04 Adjustable seat height



Super C

Sharing E-Scooter



01 Swappable battery



02 Waterproof charging port



03 Dual kickstand



04 Dual drum brake + Rear E-ABS



05 Embedded IoT



06 LED taillight + License plate





Super S

Sharing E-Scooter



01 Front double arm shock absorption



02 10-inch 500W Motor



03 Hidden Kickstand



04 Rear drum brake + EABS

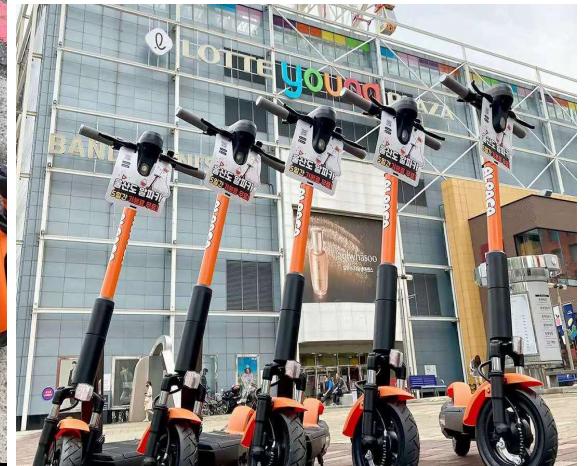


05 Double LED Safety Tail Light



06 Front drum brake







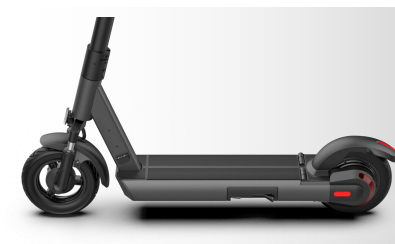
GS1 3000

Sharing E-Scooter

01 Front double arm shock absorption



02 Dual drum brake + Rear E-ABS

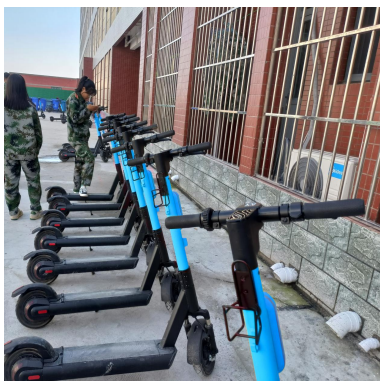


03 Hidden kickstand



04 Double LED safety taillight







KS3000

Sharing E-Scooter

01 Swappable battery



02 Front 12inch wheel



03 Embedded IoT



04 Dual Kickstand





X520D Pro

Sharing E-Scooter



01 12inch Dual motor



02 Wireless Charging Phone Holder



03 IoT Status Light



04 Battery 48V 13S7P
1125Wh



05 Indicator light



06 Dual kickstand





Technologies



04

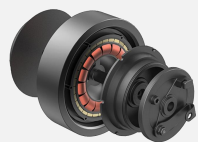
Kuickwheel

300+

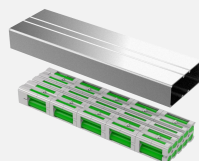
- Core patents, invention patents
- Utility model patents, design patents



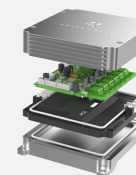
Kuickwheel Intelligent Power System——Independent R D Integrates three electrical technologies



**Intelligence
motor**



**Intelligence
battery**



**Intelligence
electronic control**

	Kuickwheel Parameter	Industry average
Peak torque	90N·m	65N·m
Maximum efficiency	90%	80%
Maximum efficiency	70km/h	50km/h
0~40km/h accelerated	3s	5s

1. Automotive grade battery cells, Strong power
2. Energy density up to 300wh/kg
3. Deep waterproof, dynamic explosion-proof
4. BMS 3.0
5. OTA

1. FOC Vector Algorithm Control
2. Seamless switching between single and dual drive
3. 5 major Riding modes
4. Embedded body sensing automatic parking
5. Dynamic torque distribution

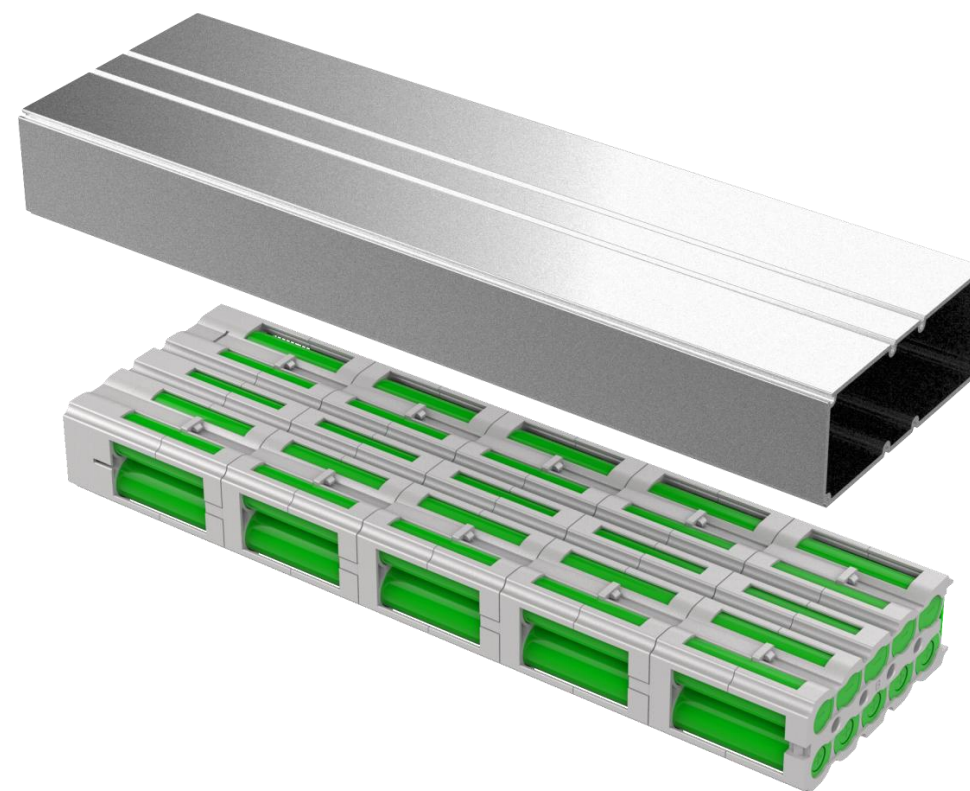
Common battery for rideshare products-Ebike and Escooter



Common Battery

Robust and stable battery design

- Aluminum-alloy profile material
- Li-ion battery cells for large capacity
- Waterproof, Anti-corrosion, Fireproof, Dustproof
- Battery case fixed with Bracket for safety and stability
- Fully sealed aluminum battery case + perforated wiring through ·silicone pad



Dual frequency GPS and RTK technology

Dual-mode GPS positioning technology

Support L1+L5 dual-frequency positioning, dual-frequency signal cooperation

Effectively improve navigation accuracy in complex urban environments



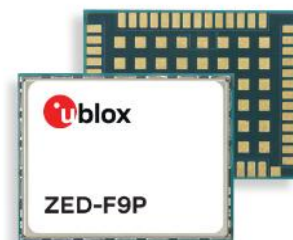
RTK

Global Positioning System

also known as Global Positioning Satellite System



U-Blox GPS Application



ZED-F9P module

u-blox F9 high precision GNSS module

Multi-band GNSS receiver delivers centimeter level accuracy in seconds

- Concurrent reception of GPS, GLONASS, Galileo and BeiDou
- Multi-band RTK with fast convergence times and reliable performance
- Centimeter-level accuracy in a small and energy-efficient module
- Easy integration of RTK for fast time-to-market
- Open SSR formats including SPARTN and Compact SSR for efficient delivery

Downhill automatic
speed limit /Speed limit
on specific road
sections



Downhill automatic speed limit at 15km/h



Speed limit at 15km/h on specific road sections

Millimeter wave radar



Rear fender built-in
radar module



Charging Cabinet/Charging Station Charging Pile/ESCOOTER and Ebike



Charging cabinet



Charging Station



Charging pile
Escooter/Ebike

Wireless charging demonstration



Wireless charging for vehicle



The head can be equipped with a wireless charging phone holder

Different types of helmets



Full wrapped



Folding helmet



External helmet

Kscreen

Security:

Riding trace, Electronic fence, Path planning, Path deviation warning, Status monitoring, Abnormal alarm, Downhill speed limit

Intelligence:

Automatic sensing of lighting, IMU riding posture estimation, Uphill assistance, Adaptive control

Function:

FOC vector directional control, Single and dual drive switching, Torque dynamic distribution, Energy recovery

Convenience:

Senseless unlocking, NFC unlocking, Voice interaction, Hill parking



01 RIDING
FEEDBACK

02 REAL-TIME
NAVIGATION

03 POSITION
SYSTEM OF
TREE-STARS

04 INTELLIGENTLY
INTERWORKING

AI CAMERA

01 Pedestrian and locomotive track alarm

02 Parking alignment inspection

03 Detect pedestrian distance and alarm based on distance

04 Retrograde detection

Core	ARM A9 @1Ghz
Computility	0.7T
Pixels	1920*1080
Taking angle	Horizontal70°
Focallength	4mm
Work distance	50m
Size	38mmx38mm

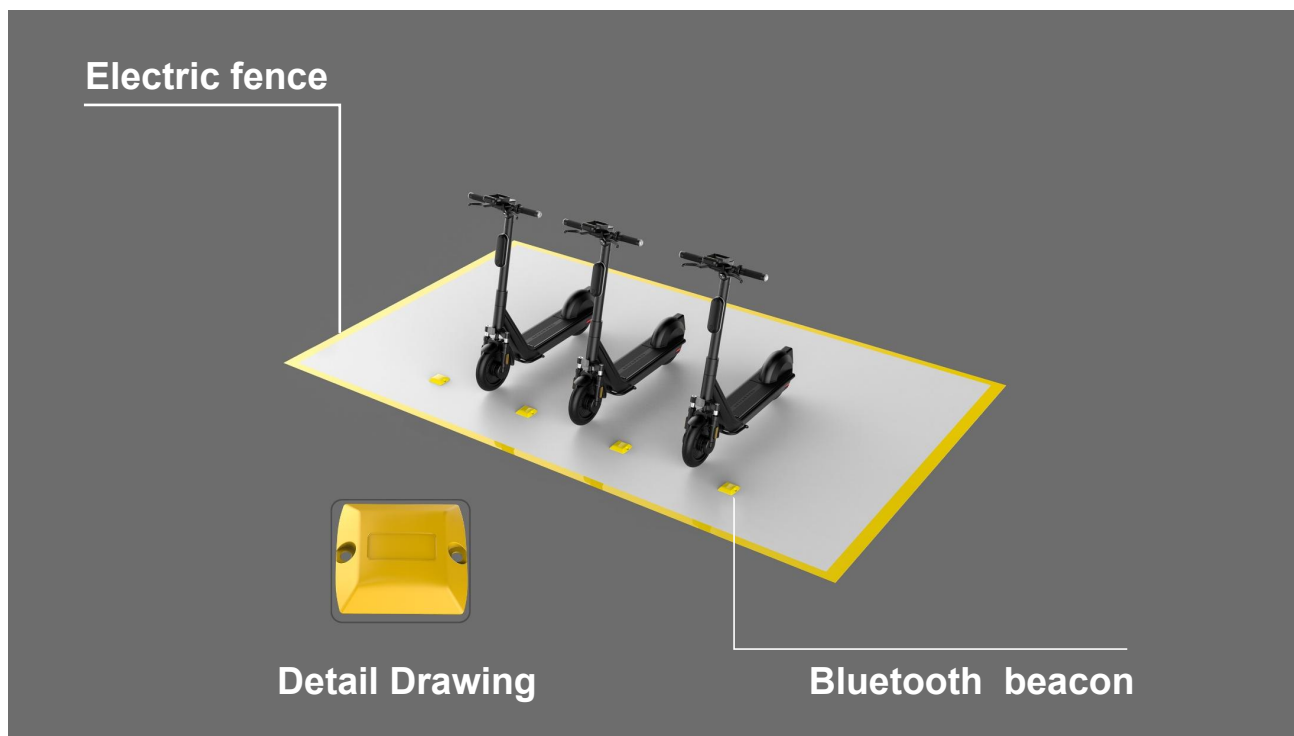


Urban Shared Vehicle Parking Scheme

Bluetooth beacon+RFID Fixed parking+AI computer vision



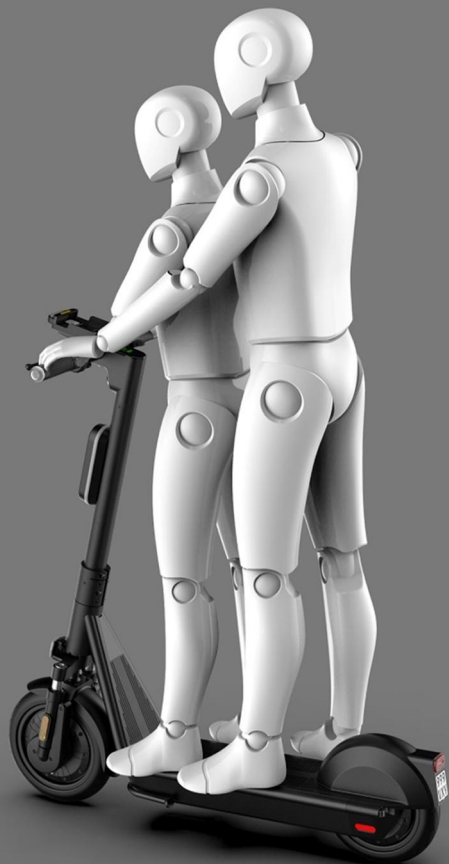
Bluetooth parking pile technology



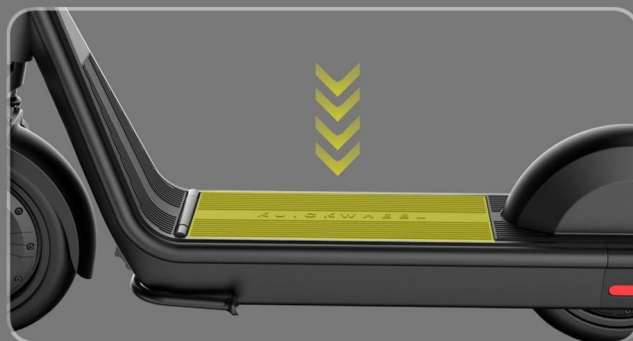
Without Bluetooth beacon effect



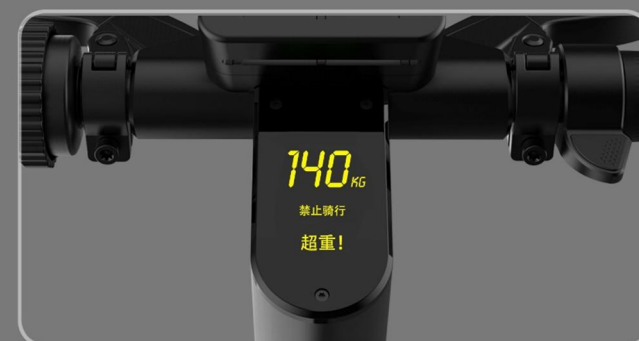
With Bluetooth beacon effect



Pedal gravity sensor



Overweight reminder

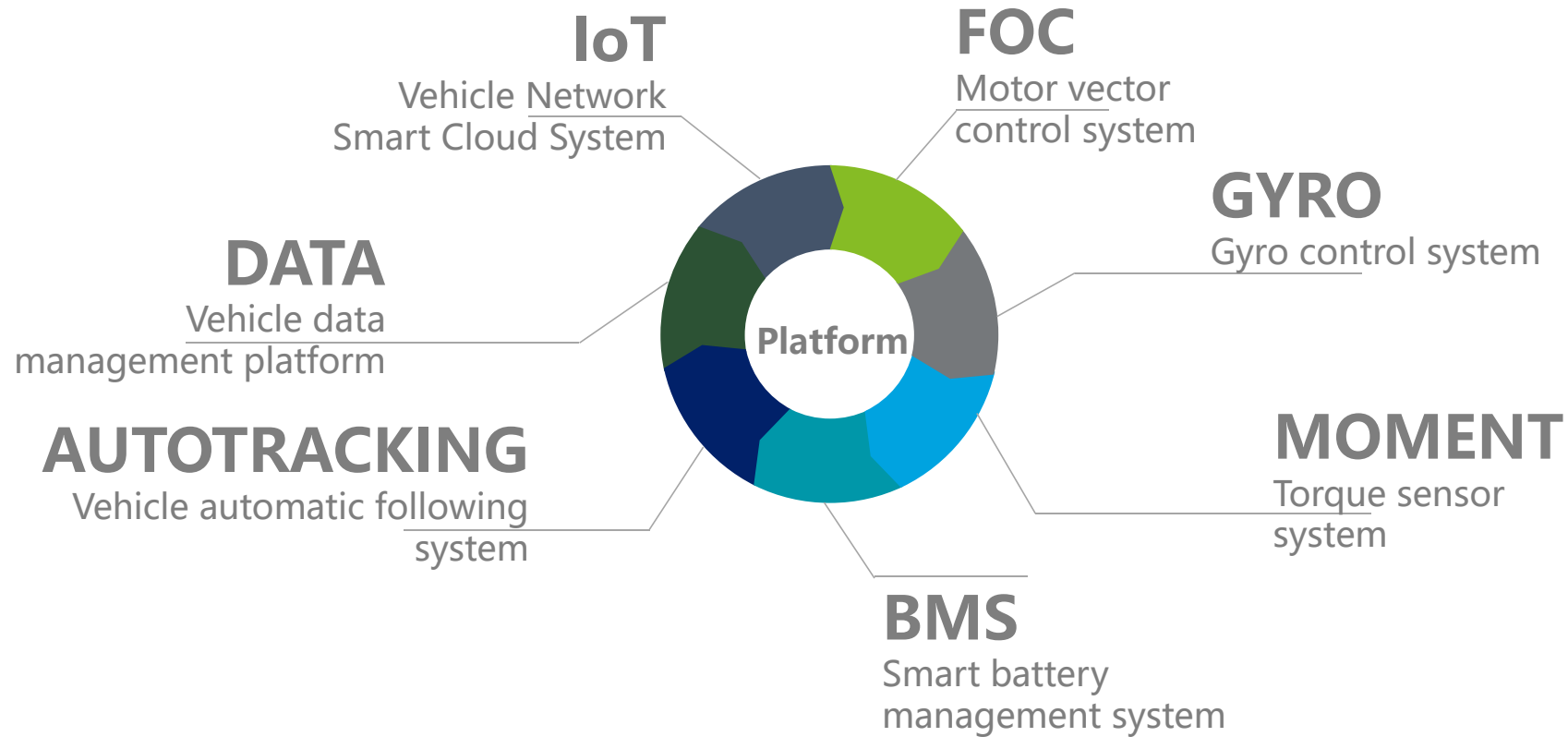


reminder info on display
Not allowed to ride

KUICKWHEEL



7 Core Technologies Build a Competitive Technology Platform





Kuickwheel IoT exports to dozens of overseas countries, such as USA, Korea, Japan, Singapore, Mexico, Brazil, UK, France, Belgium, the Netherlands, Norway, and Italy. Kuickwheel has rich experience in overseas vehicle IoT communication.

Features:

1. Publish/subscribe message mode to provide one-to-many message publishing
2. Special lightweight protocol for IoT, low network traffic consumption
3. Support QoS0/1/2 message
4. Support single node 1 million concurrent MQTT connection peak load in the server side
5. Easy to implement node distributed cluster in the server

01



2G 4G NB 5G LTE CAT1
Wireless communication
network

02



Integrated gyro and accelerometer
to know body status and motion
alarms

03



Integrated GPS、GLONASS、BeiDou、
Galileo & QZSS Positioning Technology

04



Highly integrated, waterproof
IPX7, send vehicle data to the
server in real time

05



BT5.0 Low power consumption Long-
distance transmission,
can connected to the mobile without
network

06



OTA upgrades IoT modules in the air,
and supports ECU and BMS upgrade

KUICKWHEEL

8 technology research and development routes to realize the accumulation of intelligent technology for two-wheelers

Front and Rear Cameras

Reversing Radar

Handle Pressure Sensor

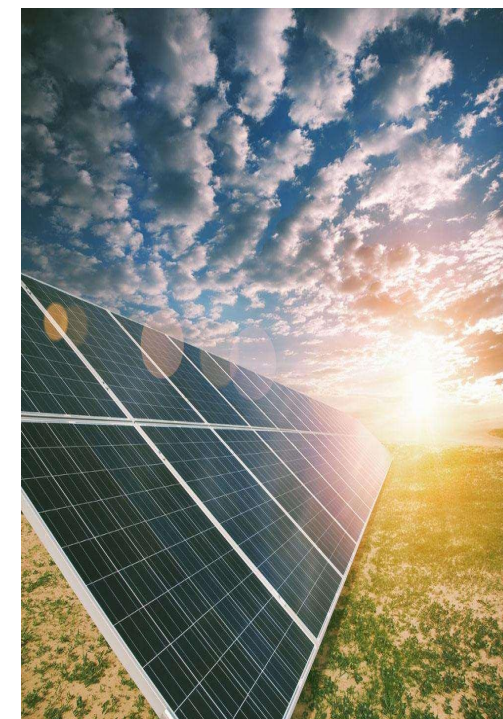
Pedal Pressure Sensor

Dual Frequency GPS

Smart Helmet

Intelligent Voice Interaction

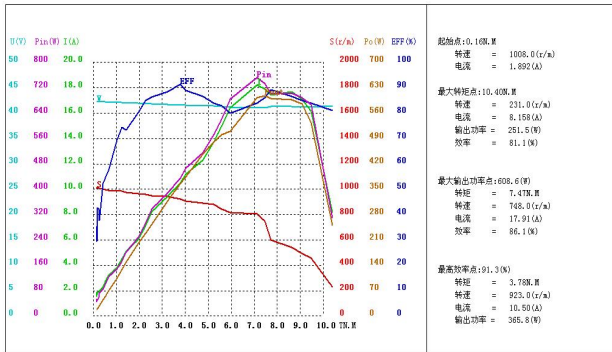
Solar Wireless Charging



F0控制器电机负载特性曲线

电机型号 (Type): 6寸 F0
 单位名称: 南京快轮科技
 测试人 (Tester): test1
 测试日期: 2016-9-10

额定电压: 37 (V)
 额定电流: 20 (A)
 额定功率: - (W)
 额定转速: 800 (r/min)



Kuickwheel

Kuickwheel maximum efficiency point :91.3%
 Kuickwheel torque maximum:10.4N.M

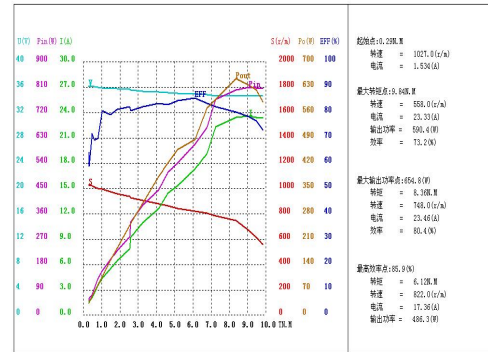
SAVE 15%

Compared with the competitors controllers, Kuickwheel controller is more energy-saving

L6控制器电机负载特性曲线

电机型号 (Type): 6寸 F0
 单位名称: 南京快轮科技
 测试人 (Tester): test1
 测试日期: 2016-11-29

额定电压: 37 (V)
 额定电流: 20 (A)
 额定功率: - (W)
 额定转速: 800 (r/min)



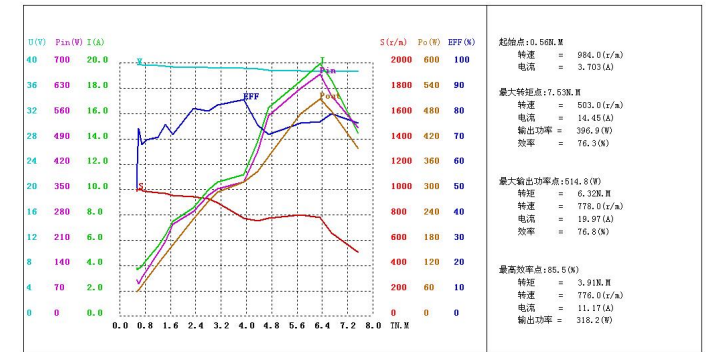
Competitor

Competitor: 85.9%
 Competitor: 9.84N.M

XX控制器电机负载特性曲线

电机型号 (Type): 6寸 F0
 单位名称: 南京快轮科技
 测试人 (Tester): test1
 测试日期: 2016-11-29

额定电压: 37 (V)
 额定电流: 20 (A)
 额定功率: - (W)
 额定转速: 800 (r/min)



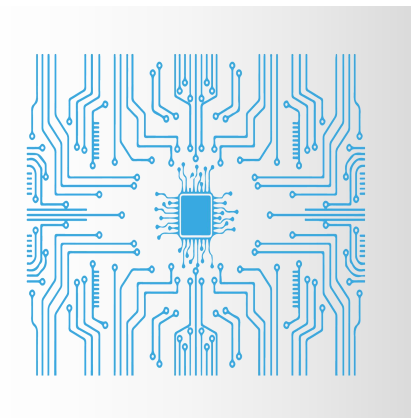
Common

Common: 85.5%
 Common: 7.5N.M

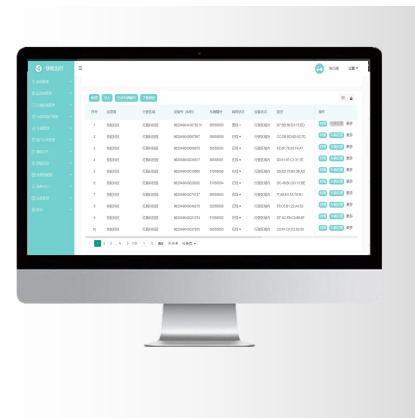
KUICKWHEEL Software Product Matrix



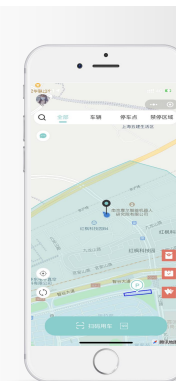
**Data Analysis
Platform**



**IoT Smart Cloud
Module**



**Shared Operation
Management Platform**

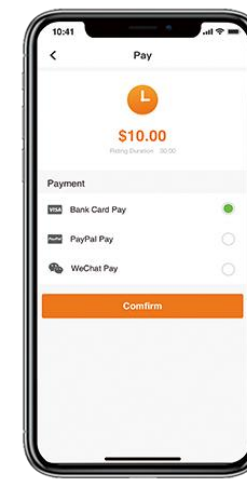
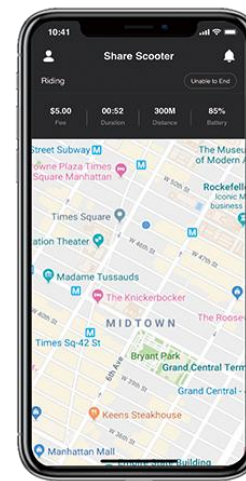
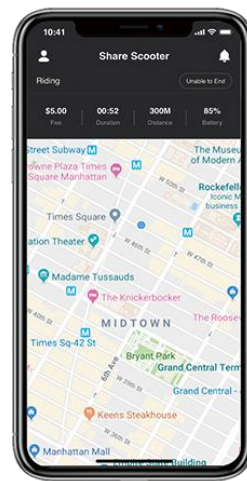
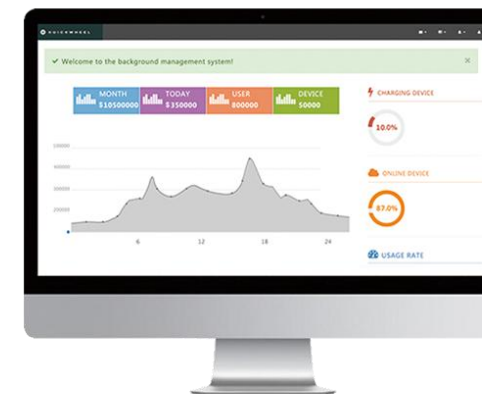


Client Applet, APP

Vehicle Network Smart Cloud System

Can be installed in a variety of products: sharing scooters, electric cars, senior scooters

Real-time positioning, dynamic monitoring, data transmission for an overview of your vehicle real-time





THANKS

EVERYONE OWNS A INTELLIGENT VEHICLE



KUICKWHEEL