

 VINKA MOTOR

SUZHOU WANJIA ELECTRIC CO., LTD.
苏州万佳电器有限公司

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WEB



WECHAT



eBike Drive System

SUZHOU WANJIA ELECTRIC CO., LTD.
苏州万佳电器有限公司



2026

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Company Profile

公司简介

22⁺

165⁺

470⁺

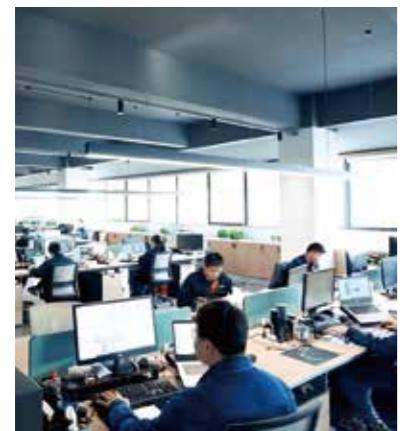
30000⁺

Established for over 20 years.
公司成立至今20余年

Possessing over 165 patents.
拥有165余项专利

Over 470 employees.
员工人数470人

Covering an area of over 30000 square meters.
占地面积30000余平



Who We Are

Established in 2003, Suzhou Wanjia Electric Co, Ltd. (VINKA) is a National High-Tech Enterprise, Provincial Technologically Advanced Enterprise, Provincial Research Center for Mid Motors and Torque Sensors, China Industry Standard Draft Group Member with a registered capital of RMB 50 million. VINKA operates 30,000+ sqm production facilities with a workforce of 470 employees.

苏州万佳电器有限公司（VINKA）自2003年成立，注册资本5000万元，系国家级高新技术企业、省级专精特新企业、江苏省中置电机与力矩传感器动力系统工程技术研究中心、中国自行车协会行业标准起草组成员单位。现有员工470余人，厂房面积30000余平方。

What We Do

Leveraging years of experience of automotive parts, VINKA focuses on the research, development and manufacturing of mid motor systems and hub drive systems. At present, the enterprise has digital and intelligent manufacturing bases in Suzhou and Tianjin, and has established a complete network of after-sales service centers in major global markets such as Europe, the United States, Canada, Japan, and Taiwan, China.

凭借苏州总部在汽车零部件研发及制造领域的多年积累，VINKA深入布局电动自行车行业，专注于中置电机系统及轮毂驱动系统的研发与制造。企业目前在苏州和天津设有数智化制造基地，并在欧洲、美国、加拿大、日本、中国台湾等全球主要市场构建了完善的售后服务中心。



H ow We Do it?

VINKA possesses a full range of enterprise management certification systems, including IATF16949, ISO9001, ISO14001, ISO18001, ISO27001, ISO14064, ISO14067, SA8000, and GB/T29490. It has also obtained EN15194, UL2849 and JIS. In addition, VINKA has been granted 165 authorized patents worldwide, and more than 200 patents are under application.

VINKA拥有汽车级IATF16949、ISO9001、ISO14001、ISO18001、ISO27001、ISO14064、ISO14067、SA8000、GB/T29490等全系企业管理认证体系，并通过了欧盟EN15194、美国UL2849、日本JIS等行业国际标准认证。此外，VINKA在全球范围内已获得授权专利165项，在途申请专利数达200余项。

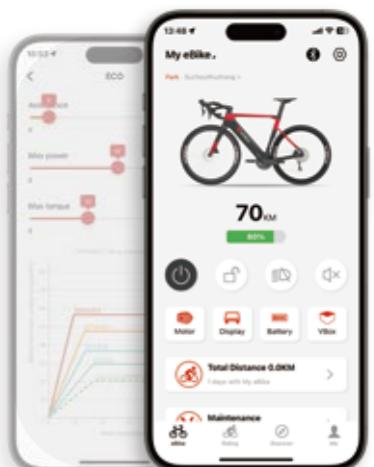
Our Values

Continuously exploring the extreme boundaries of motors, VINKA is dedicated to creating high-end drive systems that integrate precise and intelligent technology. Through cross-domain technological innovation, VINKA keeps upgrading its products' core performance and functions. E-bikes with VINKA's drive systems are constantly elevating riding differentiation and handling experience. VINKA stays at the forefront of value upgrading in high-end two-wheeled mobility, offering top-notch riders comprehensive solutions with innovative tech and adaptability.



持续探索电动自行车电机产品力的极限边界，专注打造融合精密工艺与智能科技的高端驱动系统。

VINKA通过跨领域技术创新与汽车级数据赋能制造体系，持续精进产品的核心性能与功能延展性。搭载VINKA智能驱动系统的电动自行车正不断突破骑行差异化与操控体验的阈值。对技术纵深与市场需求的深度把控，使VINKA始终引领高端两轮出行领域的价值升级，为追求卓越的骑行者提供兼具技术创新力与场景适配度的全套解决方案。



2003-2025



2003

VINKA Suzhou headquarters was established.

万佳电器苏州工厂成立



发展历程

Development History

2005



ISO 9001 and ISO 14001 certifications were obtained.

获得ISO9001、ISO14001体系认证

2011

IATF16949 automotive-level certification was obtained.
The Industry-University-Research Base of Suzhou University was established.
The title of National High-Tech Enterprise was awarded.

通过汽车级IATF 16949体系认证
成立苏州大学产学研基地
荣获国家级高新技术企业资质



2021

WTDP lab was authorized by UL.
30,000 sqm new plant was built.

建立UL授权WTDP实验室
新厂区面积增加至30000平方米



2023

First automated production line in the industry was launched.
Provincial Research Center for Mid Motors and Torque Sensors was designated.

自主研发并导入行业首条自动化产线落地
获得江苏省中置电机与力矩传感器动力系统工程技术研发中心资质

2024

Taiwan, China after-sales service center was upgraded and put into operation.
The title of China Bicycle Association Standardization Committee Member was awarded.

中国台湾售后中心升级落地
获得中国自行车协会行业标准起草组成员单位资质

2025

SA8000 social responsibility management system was certified.
ISO14064 Low-Carbon System was certified.
ISO14067 Carbon Footprint System was certified.

通过SA8000社会责任体系认证
通过ISO14064低碳体系认证
通过ISO14067碳足迹体系认证



2019

JIS (Japan) certification was certified.
EN15194-2017 certification and ISO13849 certification were obtained.
North American after-service center was set-up.

通过日本JIS标准认证
通过欧盟新安全标准EN15194-2017、ISO13849
成立北美售后中心

Authorization Certifications

授权认证

MINKA

20+

honorary qualifications
荣誉资质



Management System Certification

管理体系认证

Obtained certificates including
IATF16949、ISO9001、ISO14001、
ISO18001、ISO27001、ISO14064、
ISO14067、SA8000、GB/T29490

拥有IATF16949、ISO9001、ISO14001、
ISO18001、ISO27001、ISO14064、ISO14067、
SA8000、GB/T29490等管理体系认证



UL Certification/UL认证

Certified By Us UL Certification
获得美国UL认证

JIS Certification/JIS认证

Complied with Japan JIS industrial standards
符合日本JIS工业标准

EN Certification/EN认证

Certified by EU EN certification
获得欧盟EN认证

国家级高新技术企业

National High-Tech Enterprise

国家级两化融合贯标示范企业

Integration of informatization and Industrialization
Enterprise Integration

国家级知识产权贯标企业

National IP Management Certification Enterprise

中国自行车协会行业标准起草组成员单位

Industry Standard Draft Group Member of China
Bicycle Association

江苏省专精特新企业

Jiangsu Provincial Technologically Advanced Enterprise

江苏省创新型企业

Jiangsu Provincial Innovation Enterprise

江苏省企业技术中心

Jiangsu Provincial Enterprise Technology Center

江苏省中置电机与力矩传感器动力系统工 程技术研究中心

Jiangsu Provincial Engineering Research Center for
Mid Motors and Torque Sensors for Electric Power System

江苏省四星上云示范企业

Jiangsu Provincial Four-Star Cloud Application
Demonstration Enterprise

苏州市智能电动车移动物联网工程技 术研究中心

Suzhou Engineering Research Center for Smart
E-Mobility IoT

苏州市企业技术中心

Suzhou Enterprise Technology Center

苏州市瞪羚企业

Suzhou Gazelle Enterprise

苏州市专精特新企业

Suzhou Technologically Advanced Enterprise

苏州市工业设计中心

Suzhou Industrial Design Center

苏州科技领军人才企业

Suzhou Leading Science and Technology Enterprise

Brand Advantage 品牌优势



Technology and Engineering 技术与工程

01



Cross-border R&D and Innovation 跨界研发创新

A series of cross-border technology applications, such as harmonic technology for humanoid robots, VCU+OBD intelligent riding vehicle solutions, and automotive-grade radar IoT motor drive technology.

跨界谐波技术、VCU+OBD智能驾驶整车解决方案、汽车级雷达IoT电机驱动技术等应用。



Japanese Technical System 日系技术体系

Introduce the in-depth R&D theoretical system and manufacturing standard system of Japanese motors, and form an international technical and engineering team.

引进日本电机深度研发理论体系与制造标准体系，组建国际化技术与工程团队。

Manufacturing and Quality Control 制造与品控



High Self-made Rate 高自制率

The core components of the drive system achieve internal independent manufacturing of the entire chain starting from the underlying processing. The key process links are highly controllable. The traditional outsourcing procurement + assembly method in the industry is upgraded to a fully independent precision manufacturing closed-loop method.

驱动系统核心部件实现从底层加工开始的全链条内部自主化制造，关键工艺环节高度可控，将行业传统的外协采购 + 装配方式升级为全自主精密制造闭环方式。



High Automation Precision Manufacturing 高自动化精密制造

Independently develop leading automated and semi-automated precision manufacturing and intelligent inspection equipment in the industry. The number of self-developed equipment for the first set in the industry has exceeded more than 100 units, and the automation rate has reached 76%.

自主研发行业内领先的自动化、半自动化精密制造和智能检测设备，行业首台套自研设备数量突破100余台，自动化率达到76%。



Introduction of Intelligent Systems 智能化系统导入

Intelligent full inspection quality control at the whole process level, MES management and control, introduction of robots/robotic arms, and the labor productivity ratio ranks at the forefront of the industry.

全工序级别的智能全检品控，MES管控、机器人/机械臂导入，人效比位居行业头部领先。

02

Brand Advantage

品牌优势

Systems and Certifications

体系与认证

03



Comprehensive Management System

全面管理体系

Obtained management system certifications such as IATF16949, ISO9001, ISO14001, ISO18001, ISO27001, ISO14064, ISO14067, SA8000, and GB/T29490.

拥有IATF16949、ISO9001、ISO14001、ISO18001、ISO27001、ISO14064、ISO14067、SA8000、GB/T29490等管理体系认证。

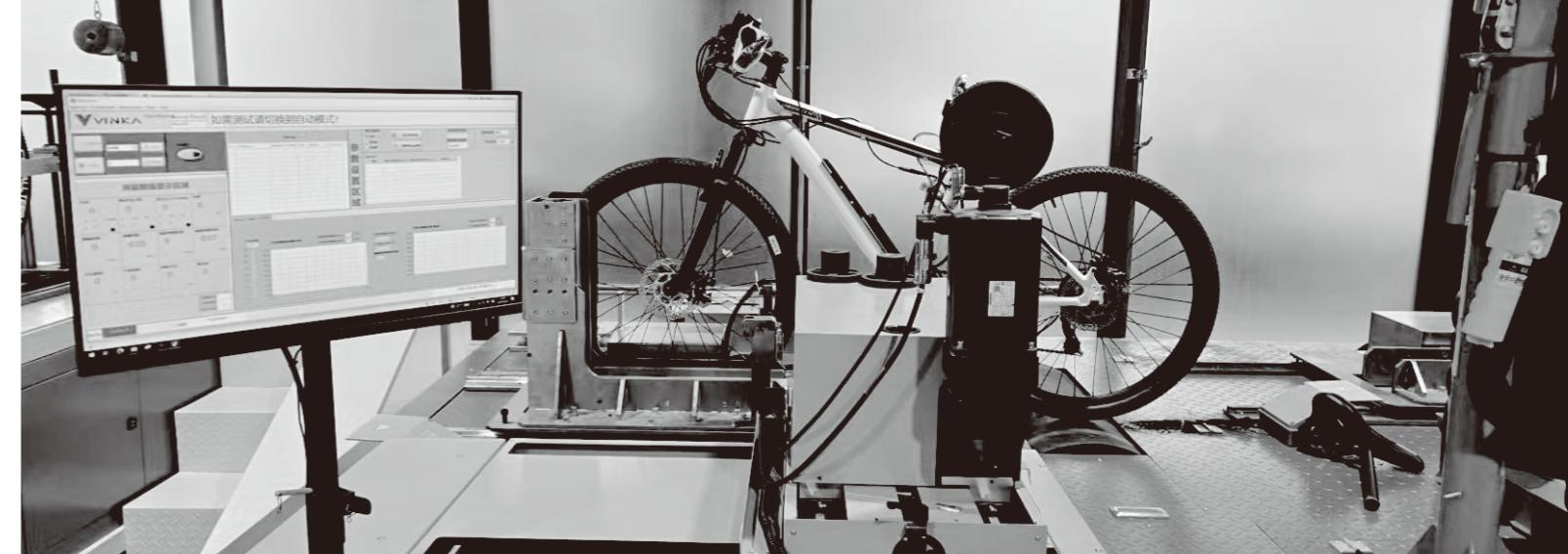


Global Patent Certifications

全球专利认证

The number of global patent authorizations has exceeded 165 items, and the number of applications under review is 200 items.

全球专利授权数量突破165项，在途申请数200项。



Team and After-sales Service

团队与售后

04

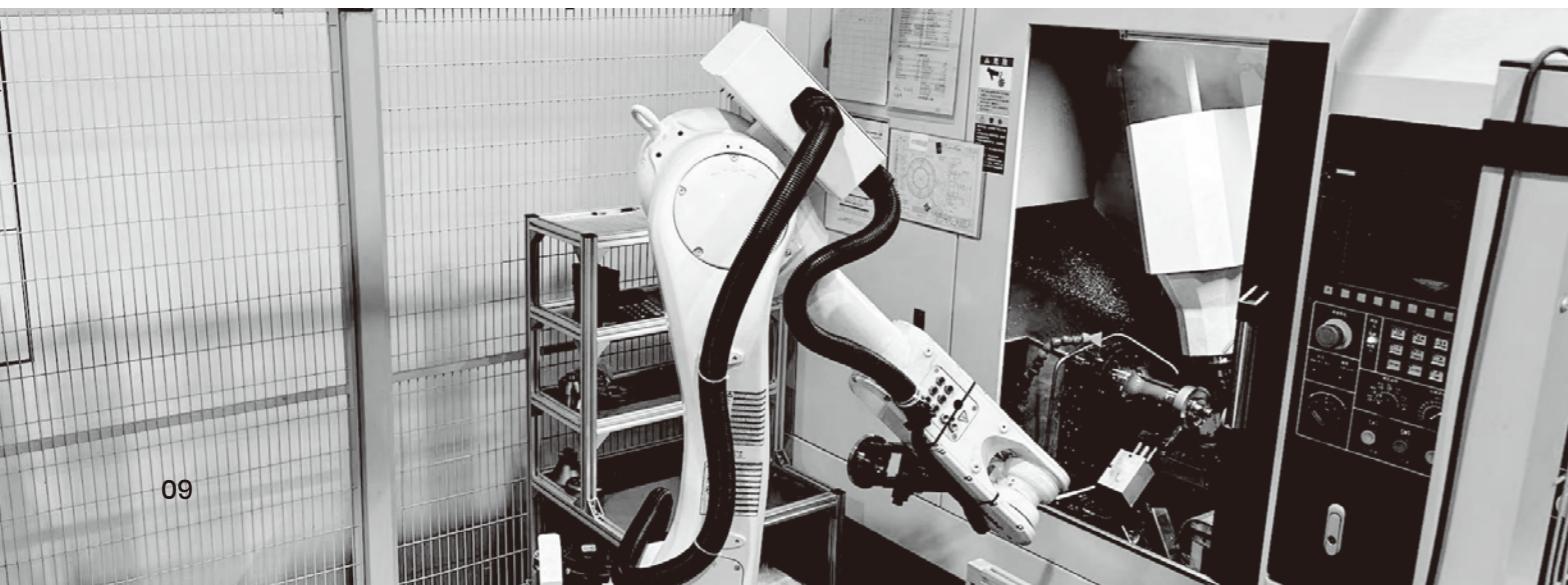


Interdisciplinary R&D Team

跨学科研发团队

The R&D team has comprehensive branches, bringing together talents from many fields such as materials science, mechanical engineering, electronic information, embedded software, electrical automation, and Internet of Things engineering.

研发团队分支全面，汇聚来自材料科学、机械工程、电子信息、嵌入式软件、电气自动化、物联网工程等众多领域的人才。



Global After-sales Network

全球售后网络

There are 9 overseas after-sales centers, with the ability to provide global services, and can provide fast, comprehensive and high-quality after-sales services to customers around the world.

设有9个海外售后中心，具备全球化服务投放能力，能为全球客户提供快速、全面、优质的售后服务。



Tom van Dijk

» "With over five years of hands-on experience in multinational technical support, I lead VINKA's cross-cultural service initiatives, delivering seamless solutions that transcend borders and industries. From pre-sales consultations to after-sales support, I ensure that every technical interaction adds value, builds trust, and drives long-term client success. We promise: efficiency without borders, every step of the way. Always in pursuit of excellence!"

»



Tomas Krejci

» "As a Senior Service Engineer at VINKA since 2017, I have gained extensive experience that allows me to offer a global perspective in both pre-sales consulting and post-sales technical support. With specialized training in advanced diagnostics, testing protocols, and system upgrades, supported by our 24/7 rapid response framework, my team and I provide fast, reliable assistance wherever you operate."

»



Global After-sales Centers 全球售后中心

SUZHOU (Headquarters)

No.6 Qizi Road, Mudu Town, Wuzhong District, Suzhou, China

TIANJIN CHINA

No.2 Quanfeng Road, Wuqing District, Tianjin

TAIWAN CHINA

No.319-5,Tianxiang Road,Changhua City

THE NETHERLANDS

Industrieweg 9, 7641 AT, Wierden

CZECH REPUBLIC

Tovární 16, Moravská Trebová, 571 01

AMERICA

3207 Claremont Avenue, Albuquerque NM 87107

JAPAN

2- 4-1, Minamihonmachi, Chuo-ku, Osaka-shi, Osaka

CANADA

200-3871 No.3 Rd, Richmond B

JAPAN

3-3-2, Kotobuki, Taito-ku, Tokyo

GLOBAL FOOTPRINT

8+
years
of independent overseas
operations

8+海外独立运营年份

自2017年起, VINKA在全球持续建立海外售后服务中心, 为客户提供测试、维修、培训、升级等系列服务。万佳拥有一支具备多年海外丰富经验的全职外籍工程师团队, 具备着深度的行业专业技能与行业服务能力。同时, 售后服务中心配备了专业的诊断工具、自动化维修设备和测试仪器, 并建立了快速反应机制, 为全球客户提供便捷高效的深度服务。

Since 2017, VINKA has continuously established overseas after-sales service centers worldwide, providing customers with a series of services such as testing, maintenance, training, and upgrading. VINKA has a full-time team of local engineers with rich overseas experience, possessing in-depth industry professional skills and service capabilities. At the same time, the after-sales service centers are equipped with professional diagnostic tools, automated maintenance equipment, and testing instruments, and a rapid response mechanism has been established to provide convenient, efficient, and quality services to customers around the world.

●

VINKA eBike Mid Motor

电机适配推荐

EBIKE DRIVE SYSTEMS



VINKA mid motor at a glance 中置电机选型天梯图

		★ Recommendations	
150Nm	Q70	★ eCity	★ eMTB
90Nm	Z60	★ eCity	★ eMTB
75Nm	S30	★ eCity	★ eGravel
70Nm	S20	★ eCity	★ eGravel
140Nm	B30	★ eCity	★ eMTB
95Nm	E50	★ eCity	★ eMTB
105Nm	C20	★ eCity	★ eMTB
75Nm	V20	★ eCity	★ eMTB
750W	500W	350W	250W

New generation high-torque micro mid motor

新一代大扭矩微型中置电机

Q70/Q70SE Mid Motor Series

Ultimate size of 95mm, equipped with a powerful 150Nm. / Gen 2 SE version fits all bikes.
95mm极致尺寸，搭载150Nm强大动力输出 / 第二代SE版本全车型适配



Q70/Q73
Q70SE/Q73SE

Model NO.
产品编号

36/48v

Rated Voltage
额定电压(v)

250 w

Rated Power
额定功率(w)

150 N.m
75 N.m

Max Torque
最大扭矩(N.m)

2.5 kg

Weight
电机净重(kg)

CAN

Protocol
协议



Display



Model NO./产品编号

DC40

Display Type/仪表类型

Middle Type

Dimensions/尺寸(mm)

77*96

Screen Attribution/屏幕类型

TFT

Lightweight and all in one mid motor

轻量级全能型中置电机

Z60 Mid Motor Series

156mm ultra narrow, universal Adaptability, the Ultimate Fit for Every Journey.
156mm超窄，全地形全车型适配，畅行无界



Z60/Z63

Model NO.
产品编号

36/48 v

Rated Voltage
额定电压(v)

250 w

Rated Power
额定功率(w)

90 N.m

Max Torque
最大扭矩(N.m)

2.3 kg

Weight
电机净重(kg)

CAN

Protocol
协议



Display



Model NO./产品编号

DC33

Display Type/仪表类型

Middle Type

Dimensions/尺寸(mm)

89*35

Screen Attribution/屏幕类型

TFT

Stealth Lightweight fully hidden mid motor

轻量化全隐藏式中置电机

S30 Mid Motor Series



Compact footprint with seamless integration.
更小体积，完美隐形



S30

Model NO.
产品编号

36 v

Rated Voltage
额定电压(v)

250 w

Rated Power
额定功率(w)

75 N.m

Max Torque
最大扭矩(N.m)

2.7 kg

Weight
电机净重(kg)

CAN

Protocol
协议

Semi hidden inner tube mid motor

半隐藏式中置电机

S20 Mid Motor Series



Light and compact, elegant integration into the downtube.
精致轻巧，隐藏式下管内嵌设计



S20

Model NO.
产品编号

36 v

Rated Voltage
额定电压(v)

250 w

Rated Power
额定功率(w)

70 N.m

Max Torque
最大扭矩(N.m)

2.9 kg

Weight
电机净重(kg)

UART/CAN

Protocol
协议

Display



Display



Model NO./产品编号

DC40

Display Type/仪表类型

Middle Type

Dimensions/尺寸(mm)

77*96

Screen Attribution/屏幕类型

TFT

Model NO./产品编号

DC35

Display Type/仪表类型

Middle Type

Dimensions/尺寸(mm)

47.4*64.2

Screen Attribution/屏幕类型

TFT

Strong power mid motor

强劲动力型中置电机



B30 Mid Motor Series

Triple-gear transmission, 250W low power continuous output 140Nm. surging power.
三级传动, 250W小功率持续输出140Nm.澎湃动力.



B30/B31/B33/B34

Model NO.
产品编号

36/48 v

Rated Voltage
额定电压(v)

250/350 w

Rated Power
额定功率(w)

140 N.m

Max Torque
最大扭矩(N.m)

3.5 kg

Weight
电机净重(kg)

UART/CAN

Protocol
协议



Display



Model NO./产品编号

DS91

Display Type/仪表类型

Side Type

Dimensions/尺寸(mm)

79*17

Screen Attribution/屏幕类型

TFT

First set of precision smart manufacturing mid motor

首台套精密智造中置电机



E50 Mid Motor Series

First smart-production, made for mid-range models, steadfast & long-lasting.
首款智能制造, 中端定位, 智稳兼备



E50/E51/E53/E54

Model NO.
产品编号

36/48 v

Rated Voltage
额定电压(v)

250/350 w

Rated Power
额定功率(w)

95 N.m

Max Torque
最大扭矩(N.m)

3.2 kg

Weight
电机净重(kg)

UART/CAN

Protocol
协议



Display



Model NO./产品编号

DS20N

Display Type/仪表类型

Side Type

Dimensions/尺寸(mm)

84*48

Screen Attribution/屏幕类型

Segment

First-generation classic mid motor

初代经典款中置电机

C20 Mid Motor Series

Classic model: steadfast performance, market-proven quality.
经典初代，运行稳定耐久，口碑诠释品质



C20/C21/C23/C24/C25

Model NO.
产品编号

36/48 v

Rated Voltage
额定电压(v)

250/350/500 w

Rated Power
额定功率(w)

85/95/105 N.m

Max Torque
最大扭矩(N.m)

3.8/3.8/3.9 kg

Weight
电机净重(kg)

UART

Protocol
协议



Display



Model NO./产品编号

DS80

Display Type/仪表类型

Side Type

Dimensions/尺寸(mm)

53*62

Screen Attribution/屏幕类型

Segment

The industry's first ultra-quiet mid motor

首创入门级超静音中置电机

V20 Mid Motor Series

Break silence limits, get smooth riding and noiseless performance.
突破静音边界，兼得平顺脚感与静谧驱动体验



V20/V23

Model NO.
产品编号

36/48 v

Rated Voltage
额定电压(v)

250 w

Rated Power
额定功率(w)

75 N.m

Max Torque
最大扭矩(N.m)

3.4 kg

Weight
电机净重(kg)

UART/CAN

Protocol
协议



Display



Model NO./产品编号

DC22

Display Type/仪表类型

Middle Type

Dimensions/尺寸(mm)

77*98

Screen Attribution/屏幕类型

Segment

VINKA eBike Hub Motor

电机适配推荐

EBIKE DRIVE SYSTEM



VINKA hub motor at a glance

七教毛勿逃主入佛國

★ Recommendations

Entry-level rear hub motor

入门级后驱电机



RH30SE Hub Motor Series

Economical choice for efficient, with smooth output performance.
经济高效，输出平稳

RH30SE	36 v	250 w
Model NO. 产品编号	Rated Voltage 额定电压(v)	Rated Power 额定功率(w)
45 N.m	2.5 kg	137
Max Torque 最大扭矩(N.m)	Weight 电机净重(kg)	Installation Width(OLD) 安装开档尺寸(mm)



Display



Model NO./产品编号

DS26

Display Type/仪表类型

Side Type

Dimensions/尺寸(mm)

60*40

Screen Attribution/屏幕类型

LED

Compact rear hub motor

紧凑型后驱电机



RH60i Hub Motor Series

Compact yet powerful, small in size inner-rotor hub motor.
后驱内转子设计，小巧强劲，紧凑轻便之选

RH60i	36 v	250 w
Model NO. 产品编号	Rated Voltage 额定电压(v)	Rated Power 额定功率(w)
35 N.m	1.8 kg	138/150
Max Torque 最大扭矩(N.m)	Weight 电机净重(kg)	Installation Width(OLD) 安装开档尺寸(mm)



Display



Model NO./产品编号

DS20N

Display Type/仪表类型

Side Type

Dimensions/尺寸(mm)

84*48

Screen Attribution/屏幕类型

Segment

High-torque hub motor

大扭矩后驱电机

RH80 Hub Motor Series



Powerful and robust output, unleash ultimate performance.
强劲动力，超强输出，释放极致性能

RH80

Model NO.
产品编号

48v

Rated Voltage
额定电压(v)

750w

Rated Power
额定功率(w)

90 N.m

Max Torque
最大扭矩(N.m)

4.4 kg

Weight
电机净重(kg)

157/175

Installation Width(OLD)
安装开档尺寸(mm)



Display



Model NO./产品编号

DS33

Display Type/仪表类型

Side Type

Dimensions/尺寸(mm)

82*48

Screen Attribution/屏幕类型

TFT

E-cargo driving system

电货车双驱动及车机系统

CD100 Hub Motor Series



Achieve optimal vehicle performance with integrated safety and control.

双电机驱动，实现车载性能移植

CD100

Model NO.
产品编号

48/60v

Rated Voltage
额定电压(v)

1000w

Rated Power
额定功率(w)

170 N.m

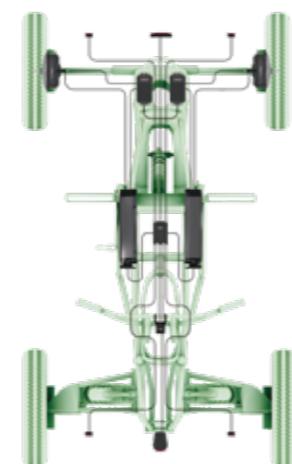
Max Torque
最大扭矩(N.m)

7.5 kg

Weight
电机净重(kg)

142

Installation Width(OLD)
安装开档尺寸(mm)



e-CDS Smart Electric Drive System: China's First Automotive-Grade Multi-Module Integrated E-Cargo Bike Solution. The e-CDS Smart Electric Drive System pioneers a holistic e-cargo bike solution, combining automotive-grade functionality with multi-module collaboration. Equipped with a multi-core computing unit for precise motor regulation and intelligent algorithms integrating IMU inertial data and ESP stability strategies, it ensures exceptional riding stability. Its open architecture supports seamless hardware integration, redefining industry standards for innovation and performance.

e-CDS智能电驱系统是国内首款集汽车级功能与多模块协同的电货自行车整车解决方案。系统搭载多核运算单元精准调控电机输出，结合IMU惯性数据与ESP稳定策略的智能算法，保障行车稳定性。其开放式架构支持多硬件功能整合，树立行业技术新标杆。

What is VINKA VEXUS AIoT Smart System? >>

VEXUS

VINKA AIoT MAX

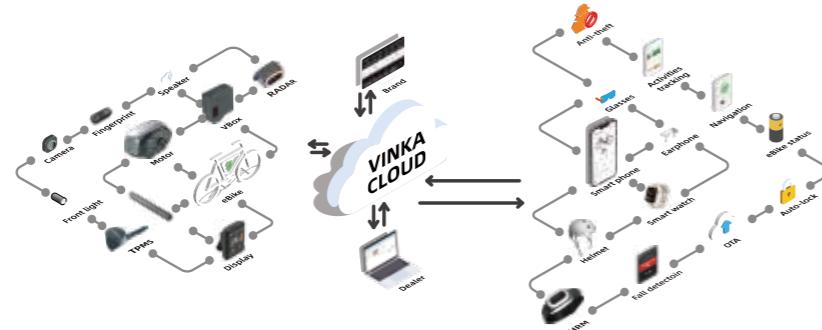
VINKA LIFE APP

VINKA IoT VBOX

VINKA IoT HMI

VINKA SERVICE TOOL

VINKA DOCTOR+



On account of many years' accumulated experience and knowledge, VINKA VEXUS based on top-level VINKA motor driving system, integrates intelligent AIoT MAX, advanced VINKA Life, high-tech VINKA VBox, and efficient VINKA Service System, as well as the most cutting-edge cloud computing and big data. It is the most intelligent vehicle all-encompassing solution built with all our efforts in recent years. Includes the following modules: VINKA AIoT MAX, VINKA LIFE APP, VINKA IoT VBOX, VINKA IoT HMI, VINKA SERVICE TOOL, VINKA DOCTOR+.

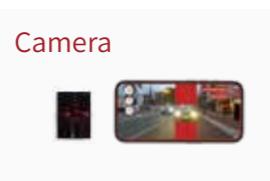
VINKA VEXUS AIoT Smart System is依托于万佳多年沉淀的卓越的电机电控技术，集成了先进智能的物联网技术，同时整合了时下最前沿的云计算、大数据等互联网技术，是万佳近年来倾力打造的智能车联网解决方案。核心构成包括：VINKA AIoT MAX, VINKA LIFE APP, VINKA IoT VBOX, VINKA IoT HMI, VINKA SERVICE TOOL, VINKA DOCTOR+。

01 VINKA AIoT MAX



VINKA AIoT MAX realizes the interconnection between electric bikes, environment, smart wears and smart devices, and provides the bike owners with wonderful experience of technology products into cycling life.

VINKA AIoT MAX以电助力自行车为中心，将人、车、环境、智能设备完美的结合起来，实现了电助力自行车和智能设备的互联互通，为车主提供了科技产品深入骑行生活的美妙体验。



02 VINKA LIFE APP



① My eBike

Real-time eBike Status Monitoring: The app allows you to check eBike battery/remaining range/location and supports remote control, making cycling more convenient.

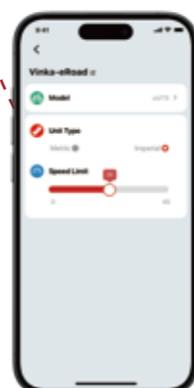
实时监控车辆状态：App查看车辆电量/续航/定位，支持远程操控，骑行更便捷。



② Riding Dashboard

Riding Dashboard: Real-time monitoring of speed/cadence/power/human power, supports gear and light adjustments to enhance the riding experience.

骑行看板：实时监测速度/踏频/功率/人体功率，支持挡位灯光调节，提升骑行体验。



③ eBike Setting

eBike Setting: Choose the eBike model, adjust metric/imperial units, and set speed limits to meet various cycling needs.

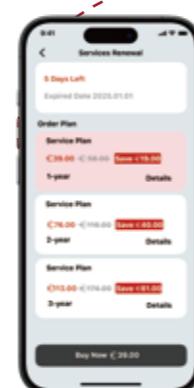
设置功能：可选择车型，调节公英制/限速参数，满足不同骑行需求。



④ OTA

Implement wireless firmware upgrades to enhance performance, resolve system issues, and improve operational safety.

通过无线升级优化车辆性能、修复故障，优化性能与安全性。



⑤ Services Renewal

Manage cellular connectivity subscriptions (via PayPal/credit card) to sustain data synchronization, remote control, and OTA functionality.

支持在线续费4G通信服务（PayPal/信用卡），确保持续数据同步、远程控制和OTA升级。



⑥ Anti-Theft Alarm

Activates motion-triggered alerts and push notifications when unauthorized movement is detected post-locking.

锁车后异常移动触发报警，并发送信息至手机，保障车辆安全。

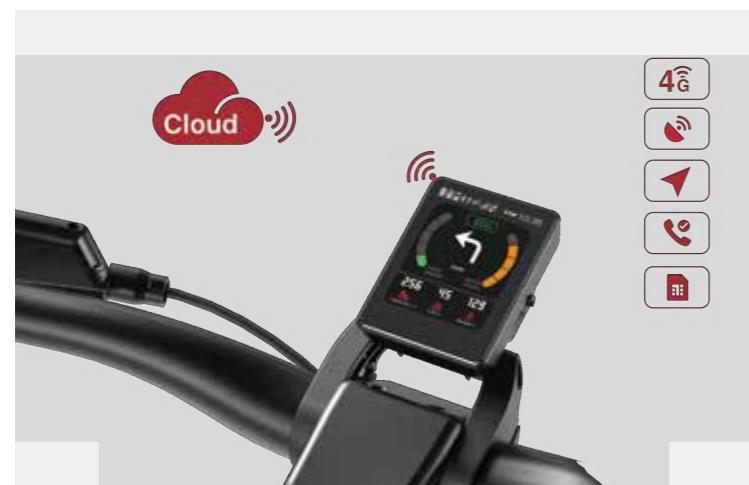
03 VINKA IoT VBOX



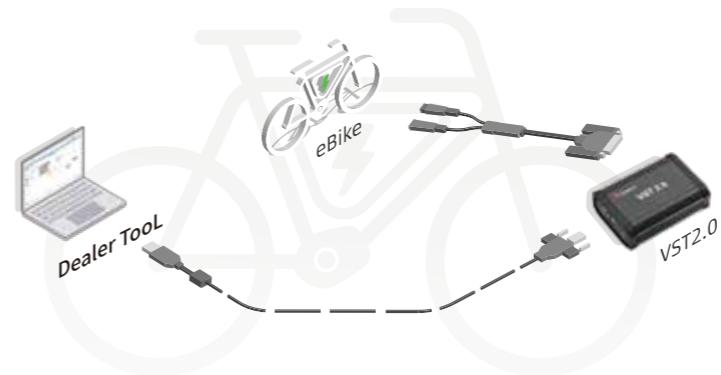
04 VINKA IoT HMI

VINKA IoT HMI leverages advanced 4G technology to provide seamless real-time connectivity, allowing riders to stay connected to VINKA Cloud and access a wide range of smart features. With the combination of 4G and HMI, driving system will be more easier, lower cost, but more powerful.

VINKA IoT HMI利用先进的4G技术，实现无缝的实时连接，让骑行者始终保持与VINKA云端的连接，并访问丰富的智能功能。4G与HMI的结合使得驾驶系统更加简便、低成本且功能更强大。



05 VINKA SERVICE TOOL



VST2.0, VINKA service tool is designed to enable communication between PC and eBike for diagnosis, product configuration, software upgrade, development and debug. With VST2.0 box, the Dealer Portal is able to connect all VINKA devices, including display, controller, battery, torque sensor and VBox etc.

VINKA VST2.0旨在实现PC端与eBike之间的通讯、诊断、产品配置、软件升级、开发和调试。通过VST2.0售后诊断工具，Dealer Portal可以连接所有VINKA设备，包括仪表、控制器、电池、扭矩传感器、VBox等。

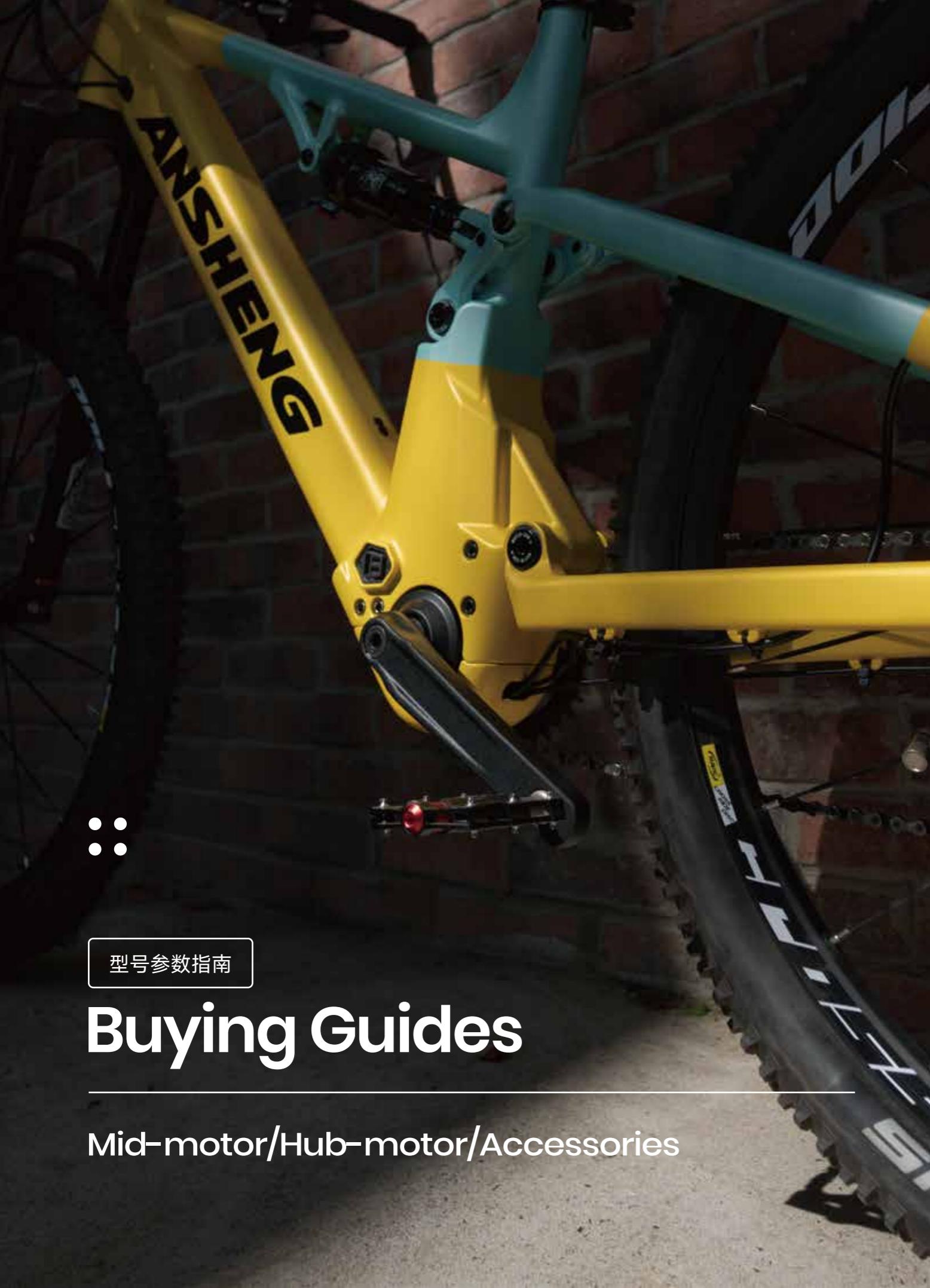
06 VINKA DOCTOR +

VINKA Doctor+ is a professional mobile diagnostic app designed specifically for eBikes, empowering brands, dealers, and service centers with efficient maintenance and operations. By connecting directly to the vehicle via a smartphone, it enables system checks, fault diagnostics, and maintenance suggestions—helping technicians quickly identify issues, reduce repair time, and significantly improve service efficiency and customer satisfaction.



VINKA Doctor+ 是一款专为电助力自行车打造的专业移动诊断应用，助力品牌商、经销商与服务网点高效运维。通过手机快速连接车辆，实现系统检测、故障诊断与维护建议，帮助技术人员精准定位问题、缩短维修时间，全面提升服务效率与客户满意度。





型号参数指南

Buying Guides

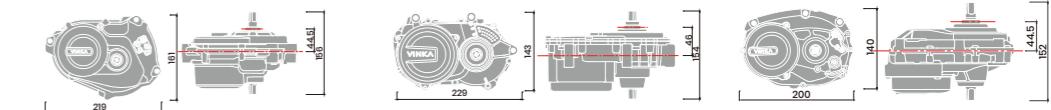
Mid-motor/Hub-motor/Accessories

Mid-motor



V20 C20 E50

Dimensions
电机尺寸



Usage 推荐车型	eCity	eCity	eMTB	eCargo	eCity	eMTB	eCargo
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Model No. 编号	V20	V23	C20	C21	C23	C24	C25	E50	E51	E53	E54
Rated Voltage 额定电压(V)	36	48	36	36	48	48	48	36	36	48	48
Rated Power 额定功率(W)	250	250	250	350	250	350	500	250	350	250	350
Max Torque 最大扭矩(Nm)	75	75	85	95	85	95	105				95
Position 位置	Mid-motor		Mid-motor		Mid-motor			Mid-motor			
Weight 电机净重(kg)	3.4		3.8	3.9	3.9	3.9	3.9	3.2			
Pedal Sensor 传感器类型	Cadence & Torque		Cadence & Torque		Cadence & Torque			Cadence & Torque			
Efficient 效率	>80%		>80%		>80%			>80%			
Shaft Standard 出轴标准	JIS		JIS		JIS			JIS			
Light Drive Capacity 大灯供电参数	DC6V/3W;DC12V/6W		DC6V/3W		DC6V/3W			DC6V/3W			
Operating Temp 工作温度	-20~45°C		-20~45°C		-20~45°C			-20~45°C			
IP Rating 防水等级	IPX5		IPX5		IPX5			IPX5			
Certification 认证	RoHS/CE/EN15194/ISO13849		RoHS/CE/EN15194/UL2849/ISO13849		RoHS/CE/EN15194/ISO13849			RoHS/CE/EN15194/ISO13849			

Description
描述

Break silence limits, get smooth riding and noiseless performance.
突破静音边界，兼得平顺脚感与静谧驱动体验

Classic model: steadfast performance, market-proven quality.
经典初代，运行稳定耐久，口碑诠释品质

1st smart-production, made for mid-range models, steadfast & long-lasting.
首款智能制造，中端定位，智稳兼备

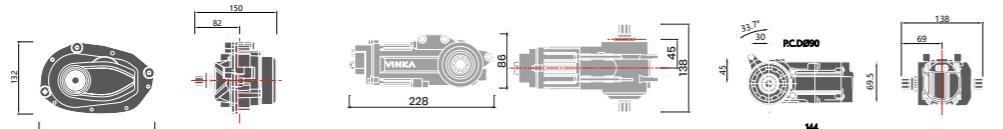
Mid-motor

Mid-motor



B30 **S20** **S30**

Dimensions 电机尺寸



Usage 推荐车型	eCity	eMTB	eCargo	eCity	eGravel	eFolding	eCity	eGravel	eFolding
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Model No. 编号	B30	B31	B33	B34	S20	S20pro S23pro	S20mini S23mini	S30
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Rated Voltage 额定电压(V)	36	36	48	48	36	36/48	36/48	36
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Rated Power 额定功率(W)	250	350	250	350	250	250	250	250
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Max Torque 最大扭矩(Nm)	140				70	70	70	75
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Position 位置	Mid-motor				Mid-motor				Mid-Motor
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Weight 电机净重(kg)	3.5				2.9	2.6	2.8	2.7
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Pedal Sensor 传感器类型	Cadence & Torque				Cadence & Torque				Cadence&Torque
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Efficient 效率	≥80%				≥80%				≥80%
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Shaft Standard 出轴标准	ISIS				ISIS				ISIS
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Light Drive Capacity 大灯供电参数	DC6V/3W				DC6V/3W				DC12V/12W
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Operating Temp 工作温度	-20~45°C				-20~45°C				-20~45°C
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IP Rating 防水等级	IPX5				IPX5				IPX5
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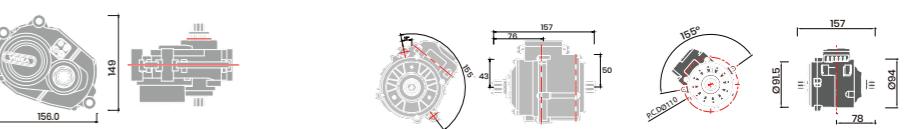
Certification 认证	RoHS/CE/EN15194/ISO13849				RoHS/CE/EN15194/ISO13849				RoHS/CE/EN15194/ISO13849
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Description 描述	Triple-gear transmission, sustained powerful output. 三级传动，持续输出澎湃动力				Light and compact, elegant integration into the downtube. 精致轻巧、隐藏式下管匹配设计				Compact footprint with seamless integration. 更小体积、完美隐形
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Z60 **Q70** **Q70SE**

Dimensions 电机尺寸



Usage 推荐车型	eCity	eMTB	eGravel	eCargo	eFolding	eCity	eMTB	eGravel	eFolding
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Model No. 编号	Z60	Z63	Q70	Q73	Q70SE	Q73SE
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Rated Voltage 额定电压(V)	36	48	36	48	36	48
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Rated Power 额定功率(W)	250				250			
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Max Torque 最大扭矩(Nm)	90				150				75
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Position 位置	Mid-motor				Mid-motor				Mid-Motor
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Weight 电机净重(kg)	2.3				2.3				2.5
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Pedal Sensor 传感器类型	Cadence & Torque				Cadence & Torque				Cadence&Torque
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Efficient 效率	≥80%				≥80%				≥80%
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Shaft Standard 出轴标准	ISIS				ISIS				ISIS
------------------------	------	--	--	--	------	--	--	--	------

Light Drive Capacity 大灯供电参数	DC6V/3W; DC12V/6W				DC12V/12W				DC6V/3W
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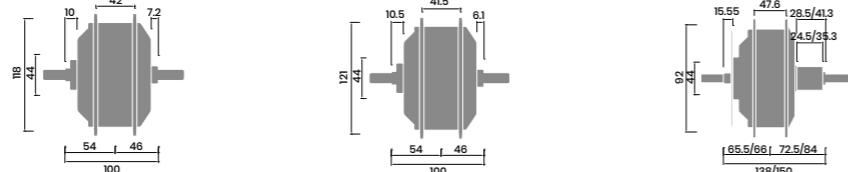
Operating Temp 工作温度	-20~45°C		
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Mid-motor



FH30 **FH30i** **RH60i**

Dimensions 电机尺寸



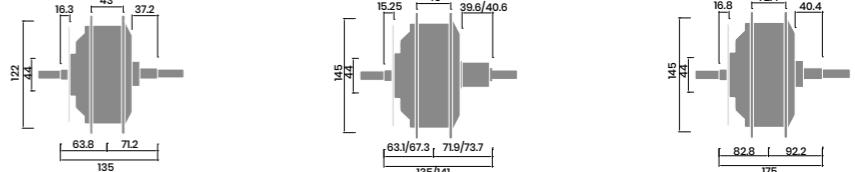
Usage 推荐车型	eCity	eCity	eCity eGravel eFolding
Model No. 编号	FH30	FH30i	RH60i
Rated Voltage 额定电压(V)	36	36	36
Rated Power 额定功率(W)	250	250	250
Max Torque 最大扭矩(Nm)	30	35	35
Position 位置	Front Motor	Front Motor	Rear Motor
Weight 电机净重(kg)	2.7	2.3	1.8
Wheel Size 支持轮径	20-29"	20-29"	20-28"
Installation Width(OLD) 安装开档尺寸(mm)	100	100	138/150
Brake 刹车类型	V Brake/Disc Brake	V Brake/Disc Brake	V Brake/Disc Brake
Spoke Specification 辐条参数	36H*12G/13G	36H*12G/13G	36H*12G/13G
C Casette Wheel Supported 卡飞	-	-	Optional
Description 描述	Front hub motor, balanced performance, ideal choice for the entry level. 前驱内转子、性能平稳、易于驾驭	Quiet inner runner motor with ease and flexibility. 前驱内转子、静音控制、轻巧灵活	Compact yet powerful, small in size inner-rotor hub motor. 后驱内转子设计，小巧强劲，紧凑轻便之选

Hub-motor



RH30SE **RH40** **RH70**

Dimensions 电机尺寸



Usage 推荐车型	eCity	eMTB eFolding	eMTB eCargo	eMTB eFat eCargo
Model No. 编号	RH30SE	RH40	RH41	RH45
Rated Voltage 额定电压(V)	36	36	36	48
Rated Power 额定功率(W)	250	250	350	500
Max Torque 最大扭矩(Nm)	45	50	50	50
Position 位置	Rear Motor	Rear Motor	Rear Motor	Rear Motor
Weight 电机净重(kg)	2.5	3.4	3.8	3.8
Wheel Size 支持轮径	20-29"	20-29"	20-29"	20-29"
Installation Width(OLD) 安装开档尺寸(mm)	137	135/141	135/141	175
Brake 刹车类型	V Brake/Disc Brake	V Brake/Disc Brake	V Brake/Disc Brake	V Brake/Disc Brake
Spoke Specification 辐条参数	36H*12G/13G	36H*12G/13G/14G	36H*12G/13G/14G	36H*12G/13G
C Casette Wheel Supported 卡飞	-	Optional	Optional	Optional
Description 描述	Economical choice for efficient, with smooth output performance. 经济高效，输出平稳	Quick and efficient, fits for various riding modes. 流畅稳定、适用性广	Quick and efficient, fits for various riding modes. 流畅稳定、适用性广	Powerful and responsive. 强劲动力、大功率输出

Hub-motor



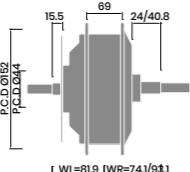
NEW!

RH80

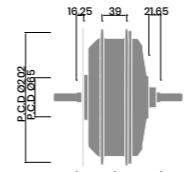


NEW!

CD100



Dimensions
电机尺寸



Usage 推荐车型	eMTB	eFat	eCargo
Model No. 编号	RH80		CD100
Rated Voltage 额定电压(V)	48	48	60
Rated Power 额定功率(W)	750		1000
Max Torque 最大扭矩(Nm)	90		170
Position 位置	Rear-Motor		Rear-Motor
Weight 电机净重(kg)	4.4		7.5
Wheel Size 支持轮径	20-29"		20-29"
Installation Width(OLD) 安装开档尺寸(mm)	157/175		142
Brake 刹车类型	V Brake/Disc Brake		V Brake/Disc Brake
Spoke Specification 辐条参数	36H*12G/13G		-
Cassette Wheel Supported 卡飞	Optional		-
Description 描述	Powerful and robust output, unleash ultimate performance. 强劲动力, 超强输出, 释放极致性能		Achieve optimal vehicle performance with integrated safety and control. 双电机驱动, 实现车载性能移植

Display







DS26



DS80

Model No. /编号	DS26	DS80
Dimensions/尺寸(mm)	60*40	53*22
Rated Voltage/额定电压(V)	36/48	36/48
Installation Size/安装横把直径	Φ22.2	Φ22.2
Display Type/仪表类型	Side Type	Side Type
Screen Attribution/屏幕属性	LED	Segment
Com. Protocol/通讯协议	UART/CAN	UART/CAN
Operating Temp./工作温度	-20~70°C	-20~70°C
IP Rating/防水等级	IPX7	IPX7
Certification/认证	ROHS/CE/ISO13849	RoHS/CE/ISO13849







DS20N



DS91

Model No. /编号	DS20N	DS91
Dimensions/尺寸(mm)	82*55	79*17
Rated Voltage/额定电压(V)	36/48	36/48
Installation Size/安装横把直径	Φ22.2	Φ22.2
Display Type/仪表类型	Side Type	Side Type
Screen Attribution/屏幕属性	Segment	TFT
Com. Protocol/通讯协议	UART/CAN	UART/CAN
Operating Temp./工作温度	-20~70°C	-20~70°C
IP Rating/防水等级	IPX7	IPX7
Certification/认证	ROHS/CE/ISO13849	ROHS/CE/ISO13849

Display

Model No. /编号	DC22	DC35
Dimensions/尺寸(mm)	77*98	47.4*64.2
Rated Voltage/额定电压(V)	36/48	36/48
Installation Size/安装横把直径	Φ22.2/25.4/31.8	Φ22.2/25.4/31.8
Display Type/仪表类型	Middle Type	Middle Type
Screen Attribution/屏幕属性	Segment	TFT
Com. Protocol/通讯协议	UART	UART/CAN
Operating Temp./工作温度	-20~70°C	-20~70°C
IP Rating/防水等级	IPX6	IPX5
Certification/认证	RoHS/CE/ISO13849/UL2849	RoHS/CE/ISO13849



Model No. /编号	DC40	DC33
Dimensions/尺寸(mm)	77*96	90*35
Rated Voltage/额定电压(V)	36/48	36/48
Installation Size/安装横把直径	Φ22.2/25.4/31.8/35	-
Display Type/仪表类型	Embedded Type	Middle Type
Screen Attribution/屏幕属性	TFT	TFT
Com. Protocol/通讯协议	UART/CAN	CAN
Operating Temp./工作温度	-20~70°C	-20~70°C
IP Rating/防水等级	IPX6	IPX7
Certification/认证	RoHS/CE/ISO13849/REACH	-

Controller

Model No. /编号	HC22	HC30
Dimensions/尺寸(mm)	91.5*50.5*30	116*50*30
Model No. /编号	FOC Motor Controller	FOC Motor Controller
Rated Power/额定功率(W)	250/350	350/500
Rated Voltage/额定电压(V)	36/48	36/48
Com. Protocol/通讯协议	Uart	Uart
E-Brake Lever/断电刹把	Available	Available
Throttle Voltage/转把电压(V)	1.0~4.3V	1.0~4.3V
Hall Sensor/霍尔传感器	Available	Available
Support Mode/助力档位	0~5	0~5
Walk Assistance/推行速度	3~6km/h Optional	3~6km/h Optional
Light Drive Capacity/大灯电压	DC6V/3W	DC6V/3W
Operating Temp./工作温度	-20~45°C	-20~45°C
IP Rating/防水等级	IPX6	IPX6
Certification/认证	RoHS/CE/UL2849/ISO13849	RoHS/CE/UL2849
Current Limit/限流(A)	12/14	10/12/16

NEW! IoT

Model No. /编号	VBox30	VBox50
Dimensions/尺寸(mm)	52.3*60.33*27.7	33.76*53.21*15.33
Rated Voltage/额定电压(V)	36-48	36-48
Operating Temp./工作温度	-20~45°C	-20~45°C
Communication(With Phone)/交互方式 (手机)	BLE/4G	BLE/4G
Communication(With Driving Units)/交互方式 (驱动系统)	CAN	CAN
Location/定位	GPS/4G	GPS/4G
IP Rating/防水等级	IPX5	IPX5

Sensors

Motor Bracket



	TS20	TS70
Model No. / 编号	BB Torque Sensor	BB Torque Sensor
Dimensions/尺寸(mm)	68/73	100
Pedal Sensor/传感器类型	Cadence & Torque	Cadence & Torque
Input Voltage/输入电压(V)	9-16	9-16
Measure Range/测量范围(Nm)	0-60	0-60
Cadence/踏频参数	16/32 pulses/Rotation	16/32 pulses/Rotation
Direction/方向信号	Available	Available
IP Rating/防水等级	IPX5	IPX5
Shaft Type/出轴类型	JIS	JIS
Cable Position/线束位置	Side	Side
Accuracy/精度	±2.5%	±2.5%



NEW!



	CS20	SS25	SS23
Model No. / 编号	Side Mount Cadence Speed Sensor	Speed Sensor	Speed Sensor
Dimensions/尺寸(mm)	Diameter/Φ15.2; Thickness/Φ9.6	70*80*12	46.6*12.8*15.2
Pedal Sensor/传感器类型	Cadence Intergrated	hall sensor	-
Input Voltage/输入电压 (V)	5	5	5
Measure Range/测量范围	0-255Rpm	-	-
Cadence/踏频参数	12 pulses/Rotation	-	-
IP Rating/防水等级	IPX7	IPX7	IPX7
Assambly Type/装配类型	Left Side	Front Wheel	Rear Wheel
Assambly Distance/安装距离(mm)	-	<8	<15



	V series	C series	E series	Z series
Model No. / 编号	BK-V1	BK-C1/C2	BK-E3	BK-Z1
Suitability/适配机型	V2X	C2X/3X	E5X	Z6X
Downtube Set/下管类型	Nanyang 4 Pull down	EEL-MINI1 Pull up	EEL-MINI2 Pull down	IT21 Pull down



VINKA Service Tool

	VST20	
Connector A/端子型号A	USB Type B	
Connector B/端子型号B	JL-F39-Z608 JM 母头(Female)	
Connector C/端子型号C	JL-F39-Z608 JG 公头(Male)	
Operating Temp./工作温度	-20~45°C	
Certification/认证	CE/RoHS	

Implementation of Carbon Neutrality

碳中和实施



01

Carbon Data Intelligent Navigation
碳数据智能导航

Through a digital carbon management system, emissions are visualized from raw material sourcing to end-consumer use, enabling precise formulation of energy-saving and emission reduction strategies.

通过数字化碳管理系统，实现从原料端到消费端的排放可视化，精准制定节能减排策略。

02

Distributed Photovoltaic Power Generation Project
分布式光伏发电项目

Sunlight-Driven Production: VINKA harnesses solar energy through rooftop-installed distributed photovoltaic power generation systems, transforming every inch of rooftop into a carbon reduction stronghold. The company has achieved 43% annual self-sufficiency in electricity consumption, empowering industry-wide green transformation with replicable clean energy solutions.

阳光驱动生产，万佳通过在屋顶安装分布式光伏发电系统来利用太阳能发电，让每寸屋顶成为减碳阵地，企业目前已实现年度用电量43%的自主赋能，以可复制的清洁能源模式赋能行业绿色转型。

03

Tracking Supplier Carbon Emission Data
追踪供应商碳排放数据

By establishing a supplier environmental data monitoring system, VINKA tracks carbon emissions across the entire supply chain lifecycle, promoting collaboration with upstream and downstream partners to build a green, low-carbon ecosystem. Core suppliers have now been integrated into the environmental data management platform, enabling coordinated management of emission reduction targets.

通过建立供应商环境数据监测体系，VINKA对供应链碳排放进行全生命周期追踪，推动上下游合作伙伴共建绿色低碳生态。目前已将核心供应商纳入环境数据管理平台，实现减排目标协同管理。



VINKA strictly adheres to the ISO 14064 greenhouse gas verification standards and ISO 14067 international norms for product carbon footprints, building an intelligent carbon management platform to drive green transformation, actively promote innovation, and advance sustainable development. Through full-process carbon emission data modeling and analysis, dynamic tracking of key emission sources, and precise lifecycle carbon footprint measurement of products, the company systematically identifies emission reduction areas, accurately measures carbon footprints, and establishes scientific decarbonization pathways.

万佳严格遵循 ISO14064 温室气体核查标准与 ISO14067 产品碳足迹国际规范，搭建智能碳管理平台，推动绿色转型、积极促进创新与可持续发展。通过全流程碳排放数据建模分析、关键排放源动态追踪系统、产品碳足迹全周期精准测算，系统识别减排领域，精确测量碳足迹，建立科学减碳路径。



At the same time, by implementing a 499KW rooftop distributed photovoltaic power generation project, 596100 kWh, 587200 kWh, and 577900 kWh of electricity have been saved in the past three years respectively. Social contributions have saved 727.87 tons of standard coal, 864.34 tons of carbon dioxide emissions, and 1181 equivalent trees. In 2023, VINKA increased its investment in environmental protection and purchased 8 energy-saving sewage equipment, effectively improving energy utilization efficiency and reducing pollutant emissions. In terms of packaging, VINKA adopts sustainable alternative materials to reduce dependence on plastic packaging and lower the burden on the production environment. By implementing a series of measures to minimize the impact on the environment and contribute to a sustainable future.

同时，通过实施 499KW 屋顶分布式光伏发电工程，近三年分别节约 59.61 万度，58.72 万度和 57.79 万度电，社会贡献节约 727.87 吨标准煤，864.34 吨二氧化碳减排量，1181 棵等效树量。2023 年，万佳加大环保投入，采购了 8 台节能排污设备，有效提高了能源利用效率，减少了污染物的排放。在包装方面，万佳采用可持续替代材料，减少对塑料包装的依赖，降低生产环境负担。通过一系列措施最大限度地减少对环境的影响，为可持续的未来做贡献。

04

Building a Digital Environmental Management System Platform
构建环境管理体系数字化平台

VINKA independently developed an environmental data platform integrating ISO14064 standard modules and supplier carbon tracking functions. This enables automated carbon emission data collection and reduces abnormal emission alert response time to production-line level. Post-implementation, the system has driven a 7.3% annual reduction in comprehensive energy consumption while generating 42 types of environmental performance digital twin models to support green production line transformation decisions.

万佳自主开发环境数据中台，集成ISO14064标准模块与供应商碳追踪功能，实现碳排放数据自动采集，异常排放预警响应时间缩短至产线级。系统上线后促进年度综合能耗下降7.3%，同步生成42类环境绩效数字孪生模型，为生产线绿色改造提供决策支持。

05

Industrial Thermal Energy Recycling Optimization Project
工业热能循环优化工程

VINKA strategically invested millions in hardware infrastructure, pioneering a gradient thermal energy utilization system. This innovation reclaims waste heat from production processes through intelligent heat exchange devices, converting it into clean energy for production line reuse.

万佳重点投资百万元级硬件设施，创新导入热能梯度利用系统，将生产过程中产生的余热通过智能换热装置回收，转化为清洁能源回馈生产线。

06

Smart Water Cycle Management System
智慧水循环管理系统

VINKA implemented water quality monitoring terminals and ultrafiltration membrane treatment equipment, establishing a three-stage cooling water reuse system that reduces water consumption per unit product by 28%. Complementary rainwater collection and purification installations enable reclaimed water reuse for landscaping and equipment cleaning, decreasing municipal water dependency by 61% and reducing annual wastewater discharge by 320,000 tons.

万佳部署了水质监测终端与超滤膜处理设备，建立冷却水三级回用体系，实现单位产品耗水降低28%。配套建设雨水收集净化装置，中水回用覆盖厂区绿化与设备清洗场景，减少市政用水依赖61%，年削减污水排放量32万吨。