



**FABLED**

**make it real**

それを現実にする

**2023**

馬達 - モーター



# 51R

MOTOR

Intelligent heart of eBike system



MTB



ROAD



TOUR

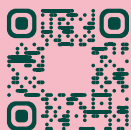
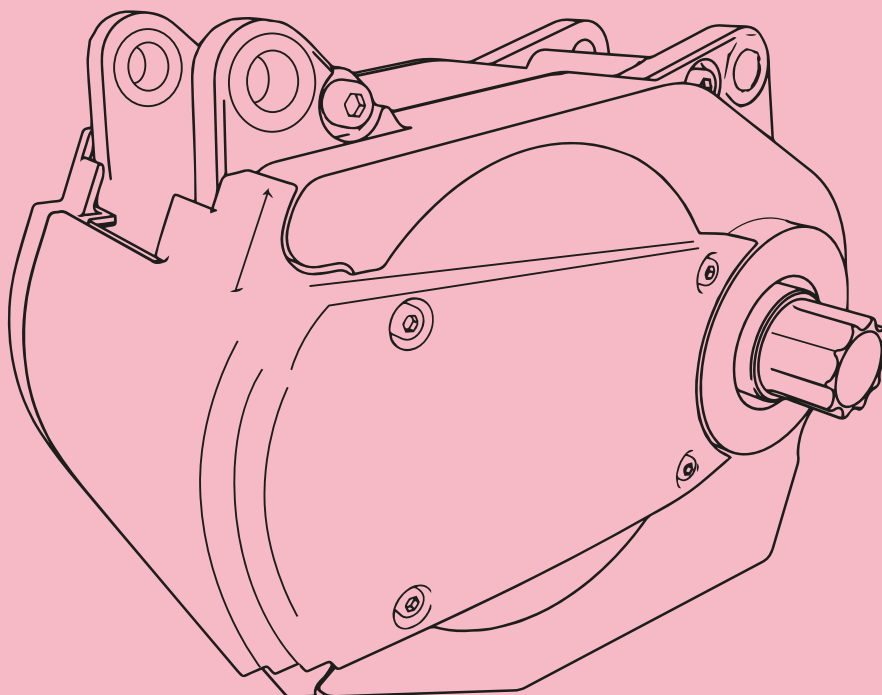


CITY



CARGO

**Nidec**  
All for dreams



Light weight and Tough preciseness and Strong

POWER DC 36V / 250 W DC 48V / 350 W Max 700W



SPEED

**25 km/h**  
**20 miles/h**

SENSOR: TORQUE, CADENCE, ANGLE, SPEED

SIZE: 185x96x135 MM

XXX  
XXX

± **3.1KG**

TORQUE

**90 Nm @ 50RPM**

Torque weight ratio 34.06 g/N.m

TOOLS:EPAB DIAGNOSTIC TOOL

OTHER FUNCTIONS:

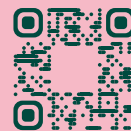
Brake cut off, Walk assist, Angle sensor



FABLED

馬達・モータ

✦ **51R**



馬達 - モータ



# 55R

FRONT HUB MOTOR

Intelligent heart of eBike system



MTB



ROAD



TOUR

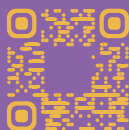
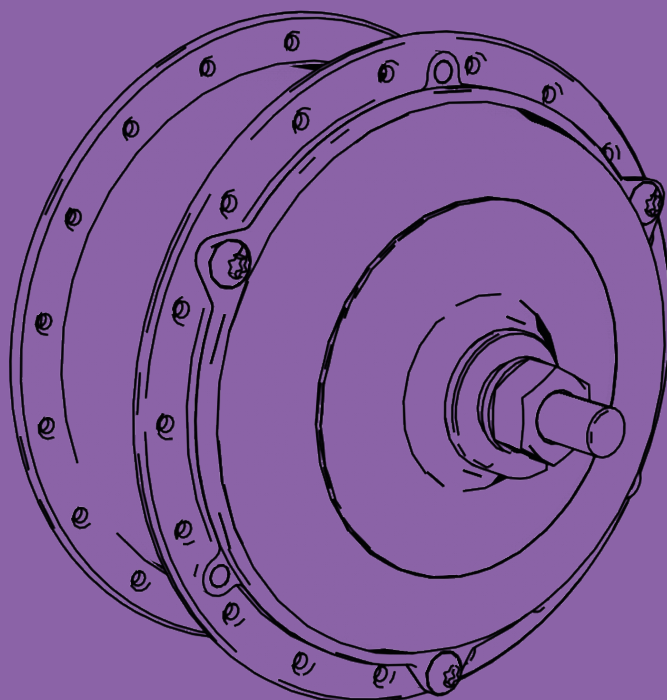


CITY



CARGO

**Nidec**  
All for dreams



Durable and price Competitive

ACHIEVES WEIGHT REDUCTION WITH A SIMPLE CONFIGURATION

GEAR  
(REDUCTION RATE)  
**20.235**

INCREASED MILEAGE DUE TO REGENERATION FUNCTION

SIZE:  $\varnothing 138.3 \times 105$  MM

XXX  
XXX

$\pm$  **2.1KG**

TORQUE **PEAK 38 Nm**

TEMPERATURE, SPEED SENSOR  
QUICK RESPONSE AND STABILITY

POWER 250W. 36V

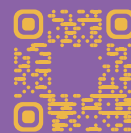


FABLED

馬達 - モータ



# 55R





馬達 - モーター

# L13S5DPCOTH

REAR HUB MOTOR

Design in Japan, Mass production in Vietnam



MTB



ROAD



TOUR



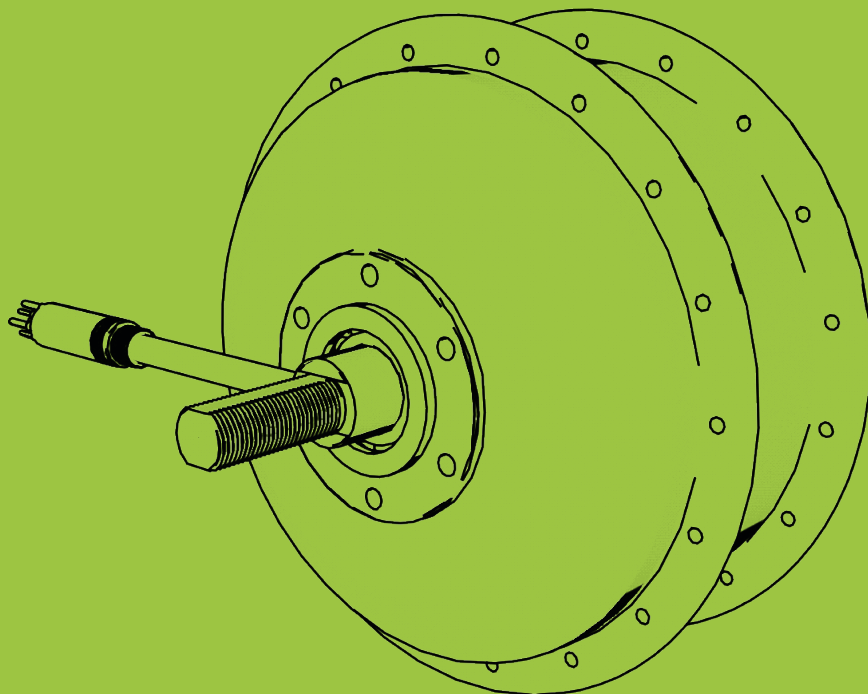
CITY



CARGO



株式会社 津川製作所  
Tsugawa S.W. Co., Ltd.



High efficiency , high heat dissipation, high starting torque



POWER 36V / 48V . 0.25 / 0.35 KW



3KG

IPM

Efficiency  
**85%**

SIZE:  $\varnothing 133 \times 65.5$  MM

TORQUE **60 Nm**

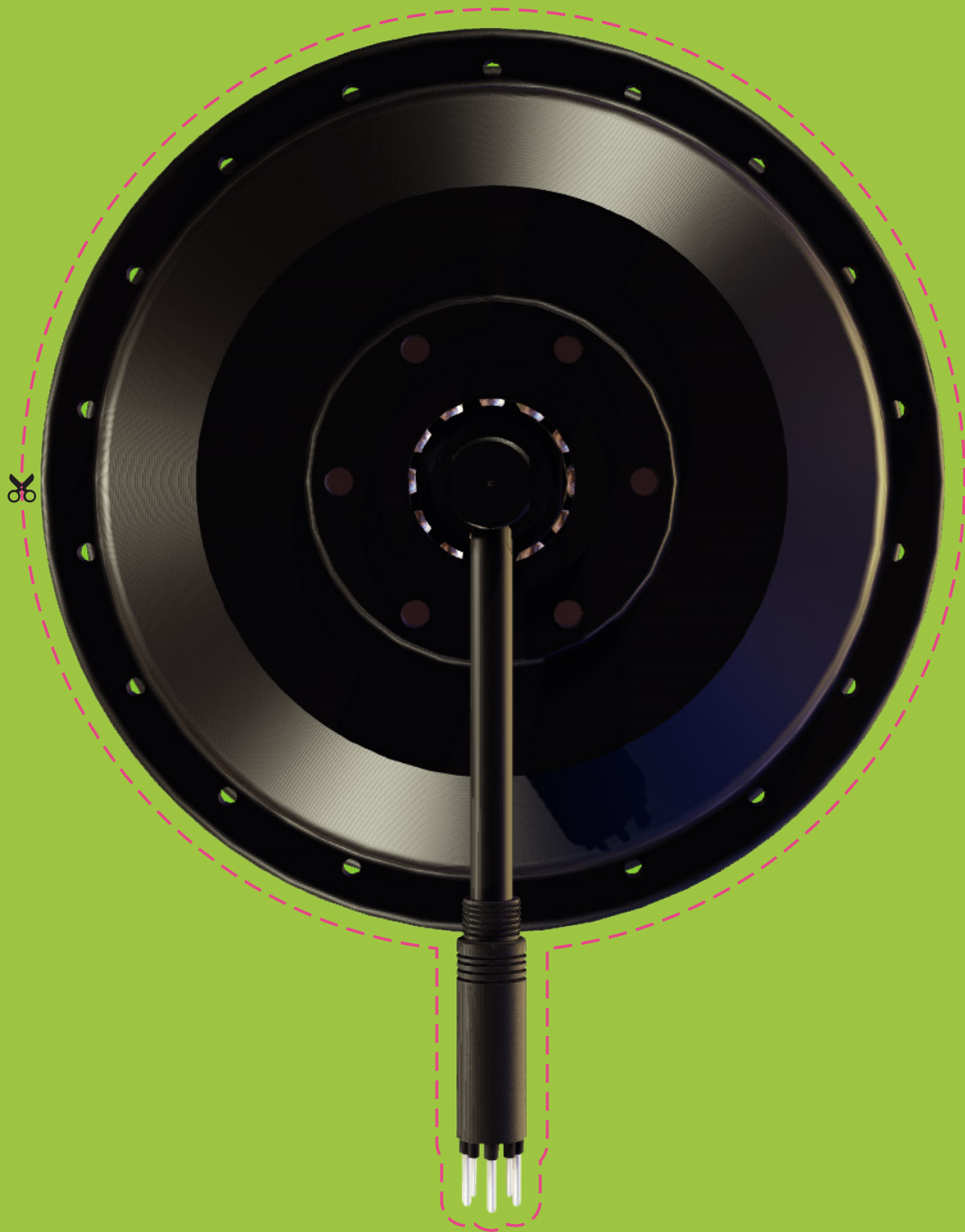


FABLED



高速・モータ

**L13S5DPCOTH**



馬達 - モータ



# 56R

FRONT HUB MOTOR

Intelligent heart of eBike system



MTB



ROAD



TOUR

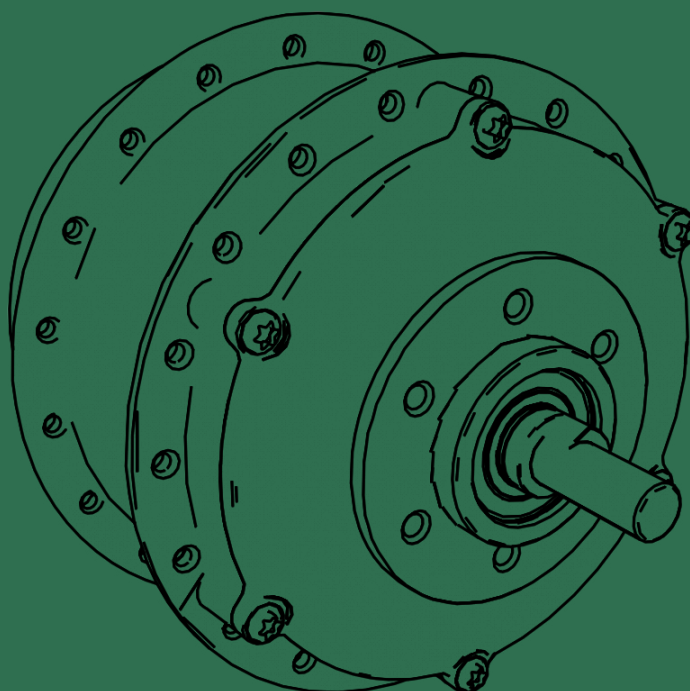


CITY



CARGO

**Nidec**  
All for dreams



Durable and price Competitive

ACHIEVES WEIGHT REDUCTION WITH A SIMPLE CONFIGURATION

GEAR  
(REDUCTION RATE)  
**22.4**

EQUIPPED WITH A ONE-WAY CLUTCH

SIZE:  $\phi 120.5 \times 100$  MM

XXX  
XXX

$\pm$  **2KG**

TORQUE

**PEAK 70 Nm**

TEMPERATURE, SPEED SENSOR  
QUICK RESPONSE AND STABILITY

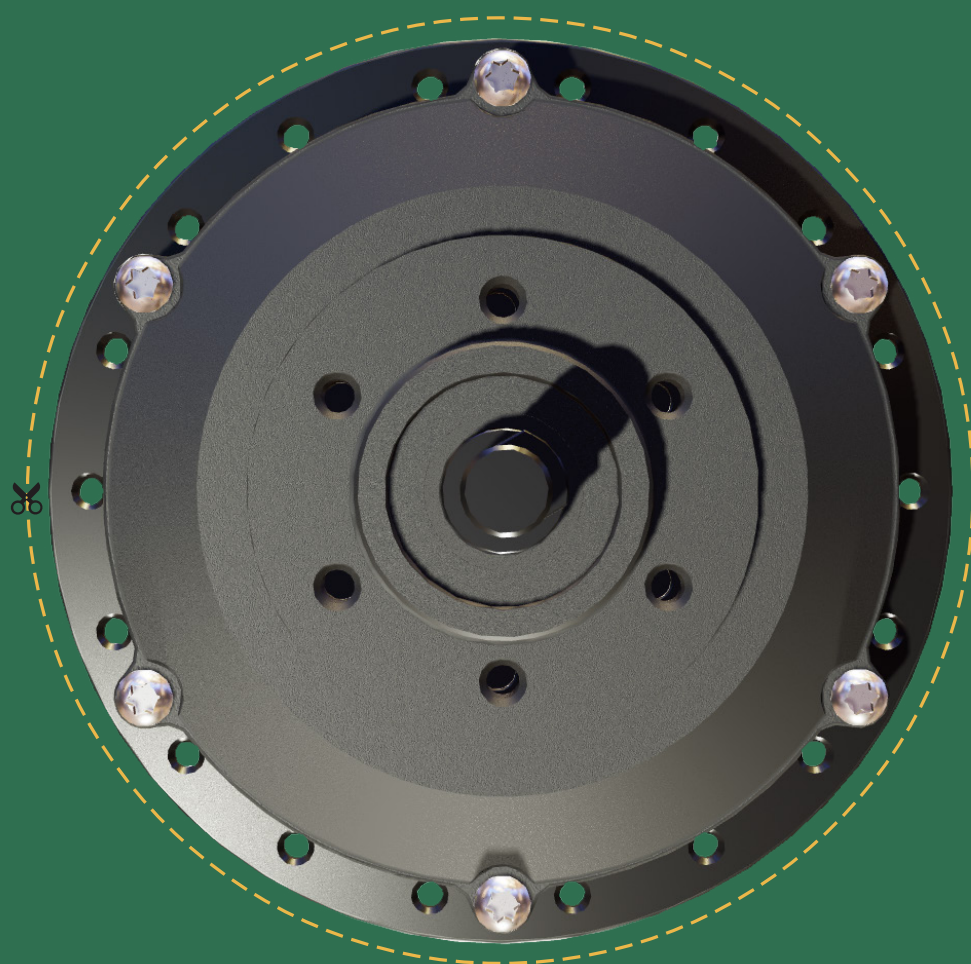
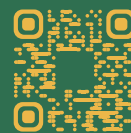
POWER 260W.48V



FABLED

馬達・モータ

✦ **56R**





馬達 - モーター

REAR HUB MOTOR

# 1KW MOTOR

Intelligent heart of eBike system



MTB



ROAD



TOUR

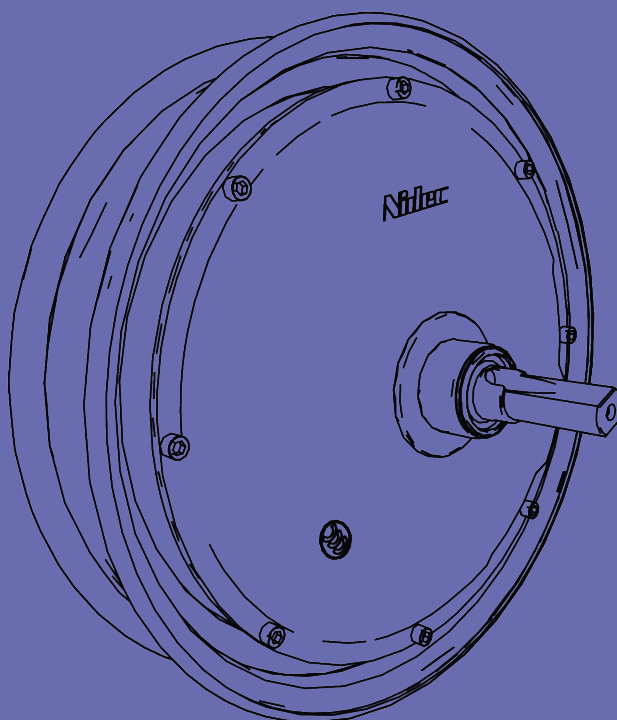


CITY

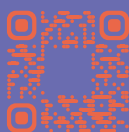


CARGO

**Nidec**  
All for dreams



Durable and price Competitive



ACHIEVES WEIGHT REDUCTION WITH A SIMPLE CONFIGURATION

MOTOR  
EFFICIENCY  
**85%**

EQUIPPED WITH A ONE-WAY CLUTCH

SIZE:  $\Phi 273 \times 235$  MM

XXX  
XXX

$\pm$  **7KG**

TORQUE **PEAK 65 Nm**

TEMPERATURE SENSOR  
QUICK RESPONSE AND STABILITY

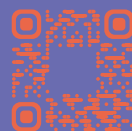
POWER 1,650W.48V



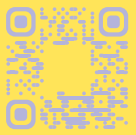


馬達・モータ

**1KW MOTOR**



# EEL-MINI



## BATTERY PACK



High Safety Panasonic  
cells & intelligent BMS

10S4P Battery Pack with EEL Mini Enclosure.  
Max. Continuous 20A Discharge Current (5~55degC)  
Max. 5A Charging Current (0~45degC)

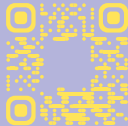
Power button with smart LED indicator (Auto Power Saving Mode)  
OTP, UVP, OVP, OCCP, ODCP & Short Circuit Protection  
CANBus Open or CANBus Protocol / MSDS



|                                                       |  |
|-------------------------------------------------------|--|
| PANASONIC NCR18650GA CELL <b>3.6V 3.45Ah, 12.42Wh</b> |  |
| BATTERY PACK RATING - <b>36V 13.8Ah Typ. 496.8Wh</b>  |  |
| MAX. PEACK 30A DISCHARGE CURRENT (5SEC, 10~40DEGC)    |  |



# EEL-PRO



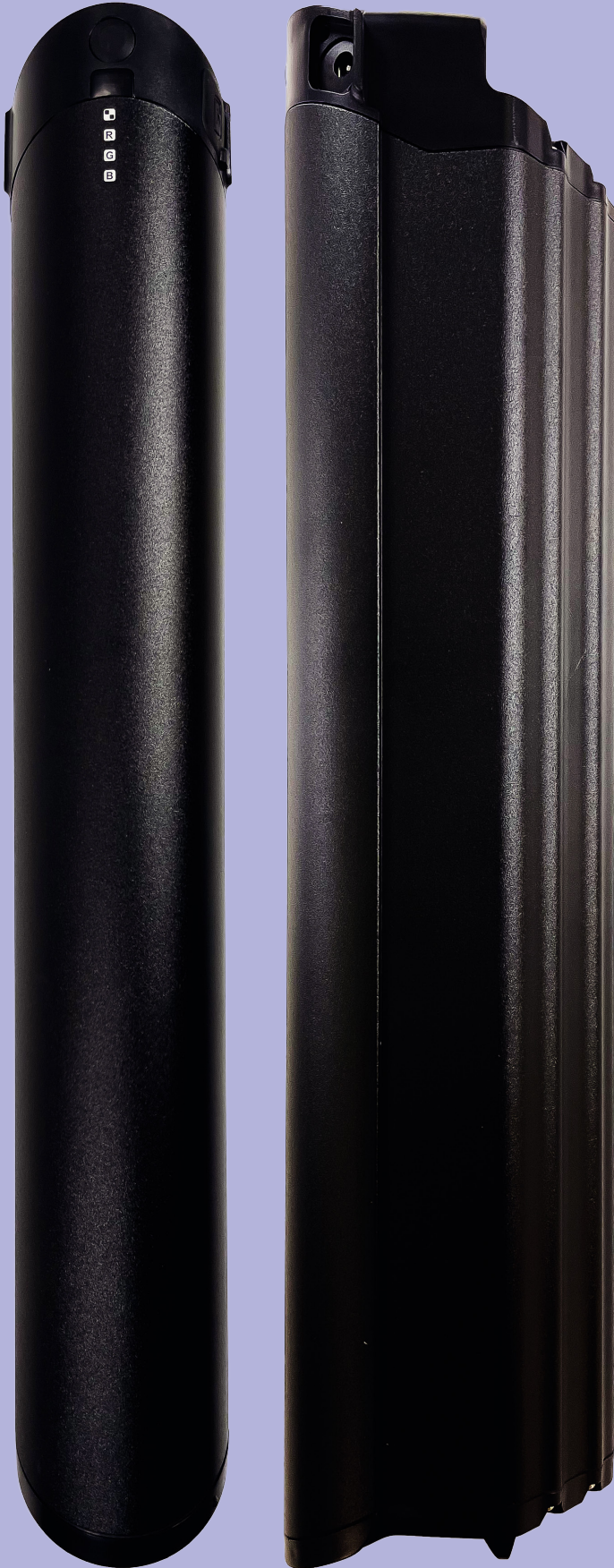
## BATTERY PACK



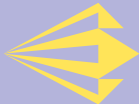
### High Safety Panasonic cells & intelligent BMS

10S5P Battery Pack with EEL Pro Enclosure.  
Max. Continuous 30A Discharge Current (5~55degC)  
Max. 5A Charging Current (0~45degC)

Power button with smart LED indicator (Auto Power Saving Mode)  
OTP, UVP, OVP, OCP, ODCP & Short Circuit Protection  
CANBus Open or CANBus Protocol / ISO13849 / UN38.3 / MSDS / IEC62133 / CE



PANASONIC NCR18650GA CELL **3.6V 3.45Ah, 12.42Wh**



FABLED

BATTERY PACK RATING - **36V 17.25Ah Typ. 621Wh**

MAX. PEACK 40A DISCHARGE CURRENT (5SEC, 10~40DEGC)

# AR3000



## BATTERY PACK



### High Safety Panasonic cells & intelligent BMS

Max. Continuous 35A Discharge Current (5~55degC)

Max. 10A Charging Current (0~45degC)

Power button with smart LED indicator (Auto Power Saving Mode)

OTP, UVP, OVP, OCCP, ODCP & Short Circuit Protection  
CANBus Open Protocol / UN38.3 / MSDS



13S6P Battery Pack with Custom ID



PANASONIC NCR18650GA CELL **3.6V 3.45Ah, 12.42Wh**

BATTERY PACK RATING - **46.8V 20.7Ah Typ. 968.76Wh**

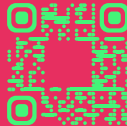
MAX. PEACK 50A DISCHARGE CURRENT (10SEC, 10~40DEGC)





# SB0122

BATTERY PACK



OTP, UVP, OVP, OCCP, ODCP & Short Circuit Protection  
CANBus Open or CANBus Protocol / UN38.3 / MSDS

**High Safety Panasonic  
cells & intelligent BMS**

Discharged Current: 3,000mA to 30.0 V end  
Max. Charging Current 54.6V @ 0°C~45°C  
Power Switch button with LED Display Function



13S5P Battery Pack with SB0122 Enclosure

|                                                       |  |  |  |
|-------------------------------------------------------|--|--|--|
| PANASONIC NCR18650GA CELL <b>3.6V 3.45Ah, 12.42Wh</b> |  |  |  |
| CHARGE VOLTAGE - <b>54.6V, CUT OFF &lt; 323mA</b>     |  |  |  |
| CHARGE CURRENT: <b>3,000mA (Standard)</b>             |  |  |  |



显示器 - ヒューマンマシンインタフェース

# EH-02

DISPLAY

**A small, light-weight ebike HMI Diagnostic Tool**



Standard protocol and interface, compatible with most e-bike motor, controller and battery. Easy-to-use with physical buttons and a clear LCD screen for data display and status indication. Flexible installation for different handlebar diameter. An USB port for cyclist to charge other electronic devices Support wireless connection to smartphone and dedicated mobile app.

TRIP DISTANCE: current trip distance, will be reset to zero when the bike is powered off

REMAINING DISTANCE: an estimated distance can be rode with the current battery capacity.

The function will be disable if the battery doesn't support this function

**POWER MODE, MAXIMUM ASSIST LEVEL DEPENDS ON MOTOR SUPPORT. INDICATES THE HEADLIGHT IS ON**

LED BACK LIGHT



**BATTERY STATUS: THE BATTERY STATE OF CHARGE  
VALUE OF DISTANCE, UNIT IS KILOMETER OR MILE**



BLUETOOTH IS CONNECTED

WALK MODE  
**ENABLED**

ODOMETER: TOTAL DISTANCE A BIKE HAS BEEN RIDDEN



FABLED

显示器 - ヒューマンマシンインタフェース



# EH-04

DISPLAY

Full color smart HMI



ebike running data - Current speed display (KM/mile) - Odograph display (KM/mile) - Riding distance display (KM/mile) - Remaining distance display (KM/mile) - Battery capacity display (4 level) - Lighting control and display - Assist level control and display (0-9 level) - Walking mode control and display - Power level display

2.2" TRANSFLECTIVE COLOR DISPLAY



XPLOVA EBIKE  
**ASSISTANT  
APP**

EBIKE ASSISTANT - DASHBOARD - POI & NAVIGATION - FITNESS TARGET - ACTIVITY DATA - DIAGNOSTIC TOOL - ACTIVE MESSAGE FROM MOBILE - PHONE TURN BY TURN NAVIGATION - INCOMING CALL NOTIFICATION



BLE CONNECTION

CAN/CANopen interface



FABLED

充電器



# SMART GAN CHARGER

GAN CHARGER

48V . 164W



MTS



ROAD



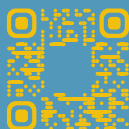
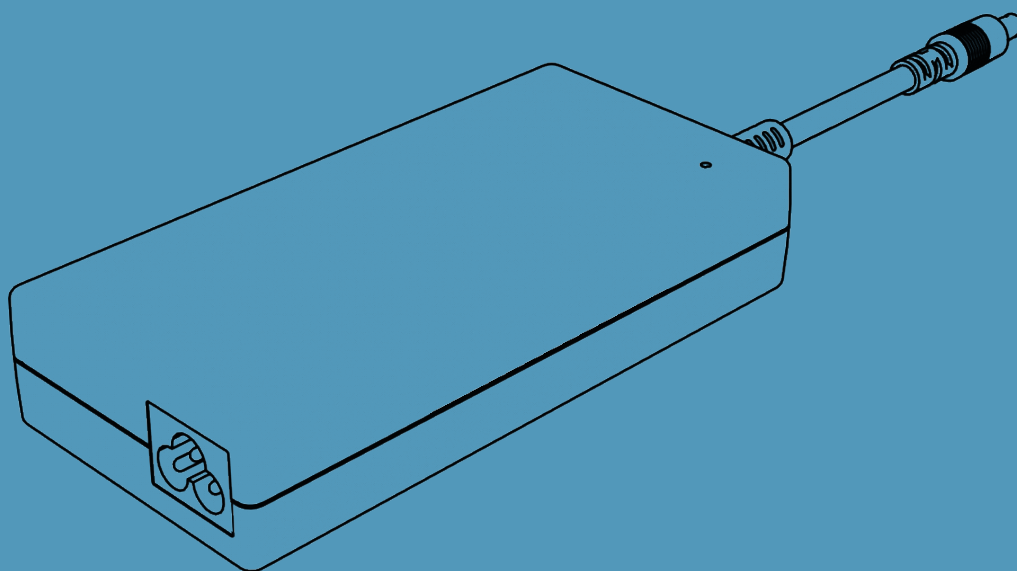
TOUR



CITY



CARGO



Compact size with GaN device inside – Digital Control for different charging curve – Universal range AC input – Comply with CB, CE, FCC safety regulation – Connector types to battery end can be optional or customized by request – The optional digital communication function per customer request

AC INPUT: 100VAC ~ 240VAC (50/60Hz) - DC OUTPUT: 54.6V/3A



380G

OPERATING  
TEMPERATURE  
0 ~ 40 °C

SAFETY: EN 60335-1/-2-29



FABLED

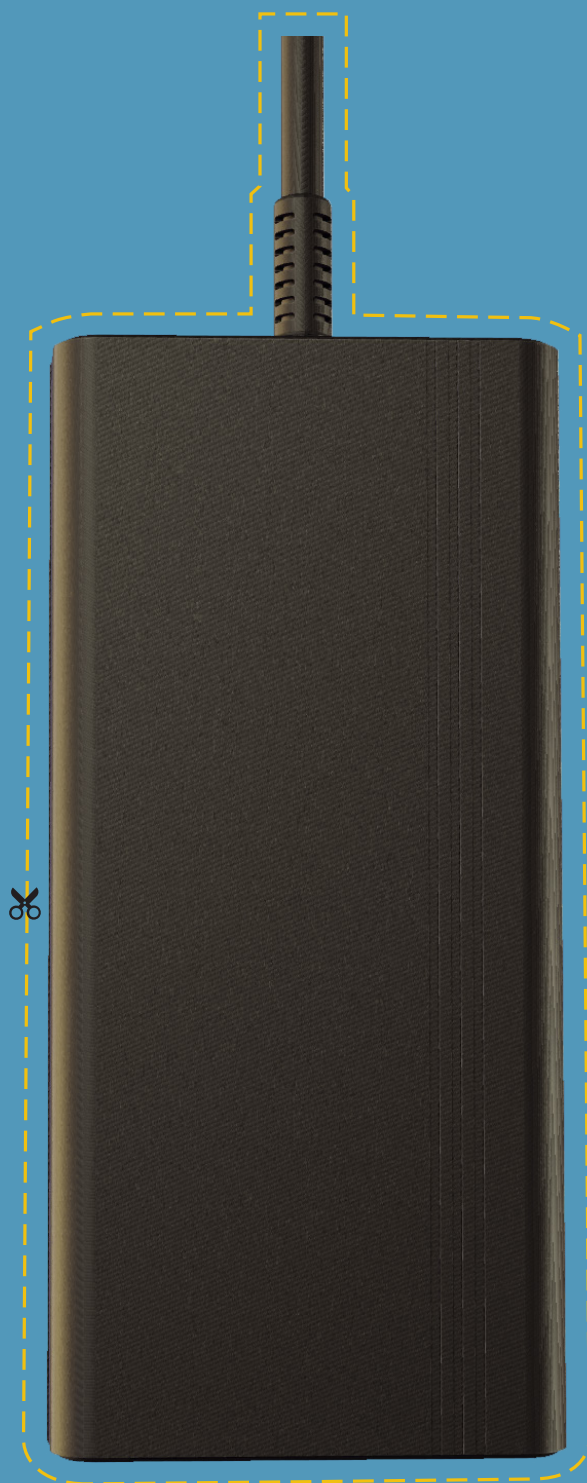
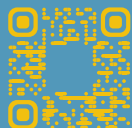
PROTECTION:  
OVP, UVP, OCP, SCP, OTP, OUTPUT REVERSED CONNECTION

SIZE 148x72x30 mm

充電器



# SMART GAN CHARGER



ワイヤレス充電器



# WIRELESS CHARGER

## WIRELESS CHARGER

### eMicroMobility MR Wireless Charging



MTB



ROAD



TOUR



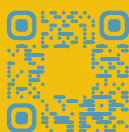
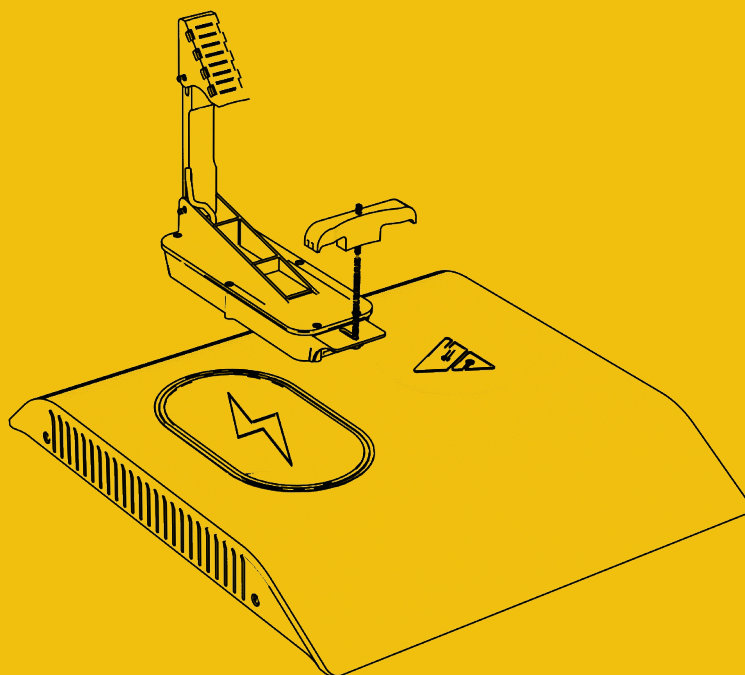
CITY



CARGO

Greatly reduce the operating and maintenance cost of charging for the commercial Bike Share and Fleet Operators. Unparalleled safety and durability.

Compared to wired charging for outdoor conditions. Offers a compelling « Park and Charge » user experience without the need for a precise alignment. T32 Power Transmitting Unit (PTU) with interoperable R32X series Power Receiving Units (PRU) for eBike/eScooter Wireless Charging



#### R321

**36V BATTERY**  
VCHARGE 42V AT 150W

#### R322

**48V BATTERY**  
VCHARGE 54.6V AT 150W

#### R323

**52V BATTERY**  
VCHARGE 58.8V AT 150W

#### GAN TECHNOLOGY

#### PLACEMENT TOLERANCE X AND Y

(maximum admissible offset between the centers of PTU and PRU coils in the fore and aft direction (x axis, y axis)

**< 4**



#### CHARGING DISTANCE

(recommended coil-to-coil distance of 15cm between the PTU coil and PRU coil)

**Z < 15cm**

T32 SUPPORTS WIRELESS POWER DELIVERED TO THE R32X SIDE FOR BATTERY CHARGING AT 150W





# CHARGER



MTB



ROAD



TOUR

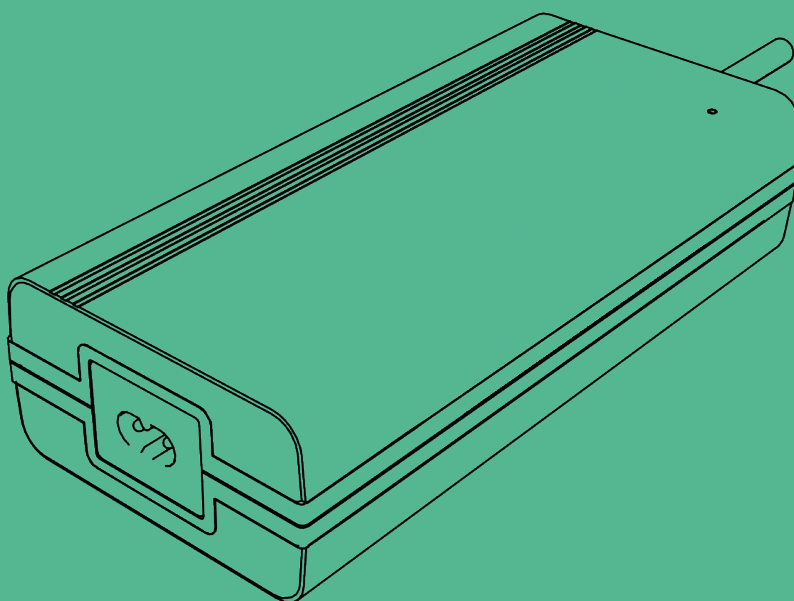
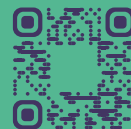


CITY



CARGO

Digital Control for different charging curve – Universal range AC input – Comply with CB, CE, FCC safety regulation – Connector types to battery end can be optional or customized by request – The optional digital communication function per customer request



充電器

## LUMIA F

36V . 168W

AC INPUT: 100VAC ~ 240VAC  
(50/60Hz) - DC OUTPUT: 42V/4A

**700G**

充電器

## LUMIA F+

36V . 252W

AC INPUT: 100VAC ~ 240VAC  
(50/60Hz) - DC OUTPUT: 42V/6A

**800G**

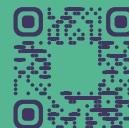
SIZE: 180\*85\*46 mm

XXX  
XXX

OPERATING TEMPERATURE : 0 ~ 40c

SAFETY: EN 60335-1/-2-29

PROTECTION : OVP, UVP, OCP, SCP, OTP,  
Output reversed connection



充電器

# VITESSE F

48V . 164W

AC INPUT: 100VAC ~ 240VAC (50/60Hz) - DC OUTPUT: 54.6V/3A



SIZE: 180\*85\*46 mm

XXX  
XXX

**700G**

SAFETY: EN 60335-1/-2-29

OPERATING TEMPERATURE : 0 ~ 40c

PROTECTION : OVP, UVP, OCP, SCP, OTP,  
Output reversed connection

充電器

# VITESSE F2

48V . 109W

AC INPUT: 100VAC ~ 240VAC (50/60Hz) - DC OUTPUT: 54.6V/2A



SIZE: 153x77x41,5 mm

XXX  
XXX

**510G**

SAFETY: EN 60335-1/-2-29

OPERATING TEMPERATURE : 0 ~ 40c

PROTECTION : OVP, UVP, OCP, SCP, OTP,  
Output reversed connection

充電器

# VITESSE F+

48V . 273W

AC INPUT: 100VAC ~ 240VAC (50/60Hz) - DC OUTPUT: 54.6V/5A



SIZE: 180\*85\*46 mm

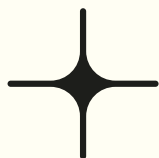
XXX  
XXX

**800G**

SAFETY: EN 60335-1/-2-29

OPERATING TEMPERATURE : 0 ~ 40c

PROTECTION : OVP, UVP, OCP, SCP, OTP,  
Output reversed connection



控制器 - コントローラ

GAN CONTROLLER

# EVIONICS POWER

Intelligent. Configurable. Reliable. Powerful.



MTB



ROAD



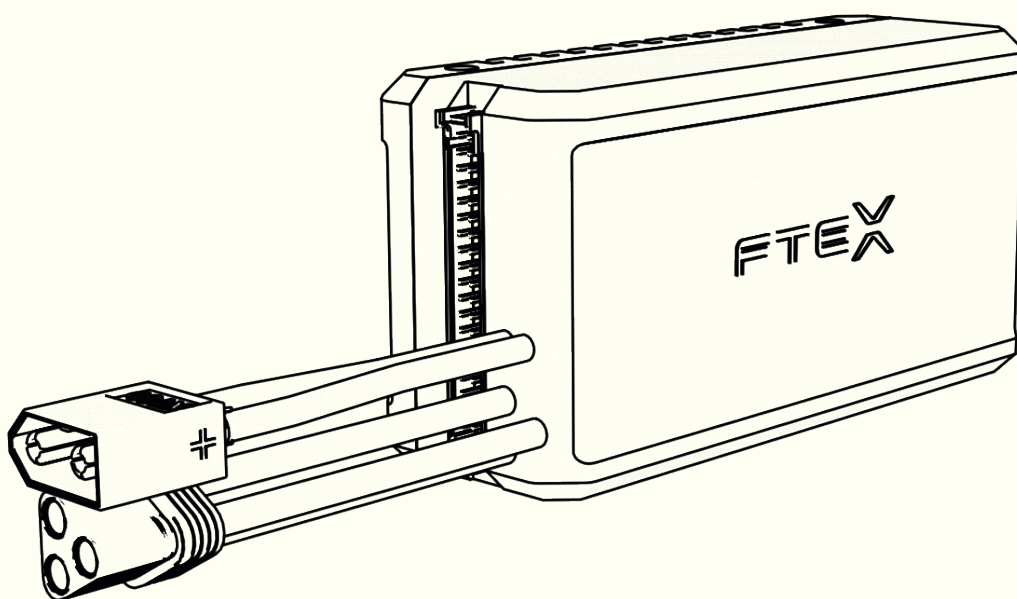
TOUR



CITY



CARGO



The most compact and adaptable electric motor controllers in the marketplace today. Feel the difference!

MOTORS SUPPORTED:  
PMAC AND BLDC

MINIMUM MOTOR PHASE TO PHASE INDUCTANCE:  
20-50  $\mu$ H (DEPENDING ON SWITCHING FREQUENCY)

VOLTAGE RANGE (DC): 32V TO 72V - PEAK A (DC) CURRENT: 40A - PEAK A (AC) CURRENT: 55A

DRIVE TRAIN SUPPORTED:  
HUB MOTOR AND MID DRIVE MOTOR

SUPPORTER MOTORS POWER:  
250W UP TO 750W MOTORS

PWM FREQUENCY:  
10KHZ TO 500KHZ



MOTOR CONTROL SCHEME: SINUSOIDAL FIELD ORIENTED (FOC)

MAXIMUM CONTROLLER  
OUTPUT FREQUENCY: 750HZ

PERMANENT MAGNET MOTOR TYPE:  
IPM AND SPM

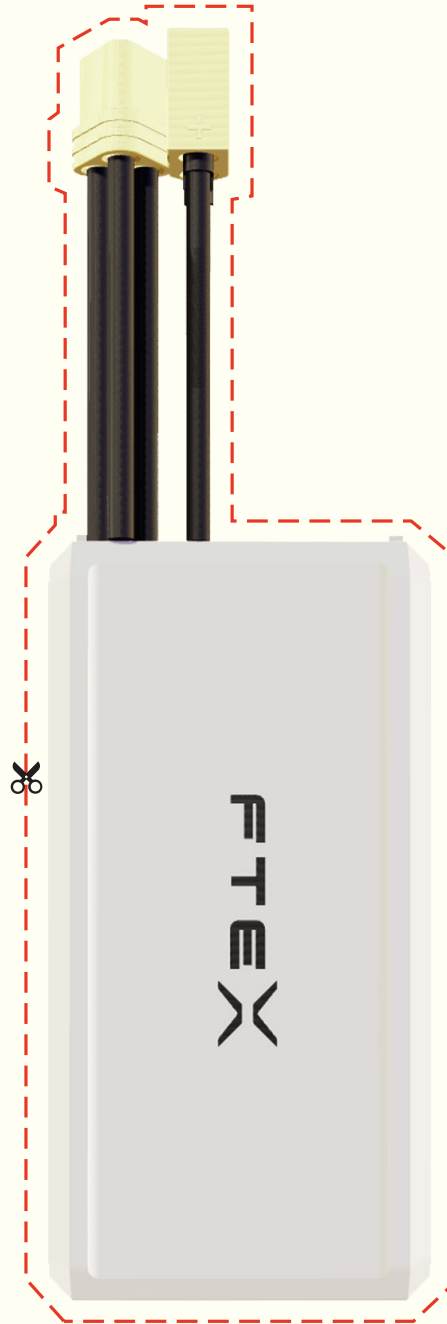


FABLED



控制器・コントローラ

**EVIONICS POWER**





# AUTORQ

Accurate. Precise. Robust.



MTB



ROAD



TOUR



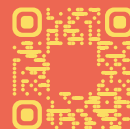
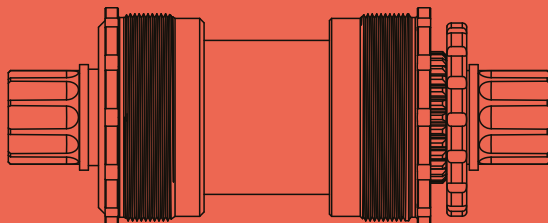
CITY



CARGO

扭矩传感器

## CMTS2SD



Cutting-edge T47 standard with ISIS drive spline that will not wear out and opens up the opportunity to select from a premium crank to match high-end bike specifications.

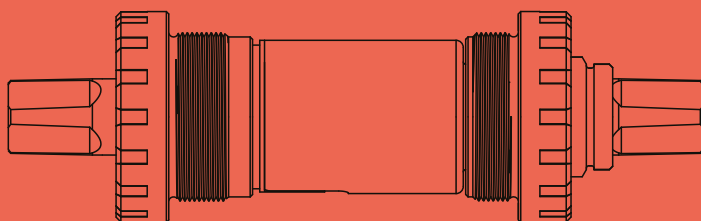
|                              |                                                |                       |
|------------------------------|------------------------------------------------|-----------------------|
| BB WIDTH: 68MM               | TORQUE MEASUREMENT RANGE: 0.5NM - 80NM         | SIGNAL SPEED: 36 PPR  |
| BB INTERFACE: T47            | SPINDLE LENGTH: 123MM                          | INTERFACE: ISIS DRIVE |
| OUTPUT VOLTAGE: 0.74V - 3.3V | CERTIFICATION: ISO13849-1:2015 / EN15194: 2017 |                       |



FABLED

扭矩传感器

## BBTS1SD



Lightweight and economical, provides a step-up in ride feel above cadence sensor electric bikes. Low cost yet effective way to differentiate your brand than settling for a cadence sensor.

|                                                        |                                                |                      |
|--------------------------------------------------------|------------------------------------------------|----------------------|
| SPINDLE LENGTHS: 110.5MM, 122.5MM, 131MM, 140MM, 147MM |                                                | SIGNAL SPEED: 32 PPR |
| BB WIDTHS: 68MM, 73MM, 83MM, 100MM                     | TORQUE MEASUREMENT RANGE: 1NM - 60NM           |                      |
| BB INTERFACE: BSA CARTRIDGE STYLE                      | INTERFACE: JIS COMMUTE                         |                      |
| OUTPUT VOLTAGE: 1.9V - 2.5V                            | CERTIFICATION: ISO13849-1:2015 / EN15194: 2017 |                      |



FABLED



# AUTORQ

Accurate. Precise. Robust.



MTB



ROAD



TOUR



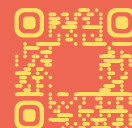
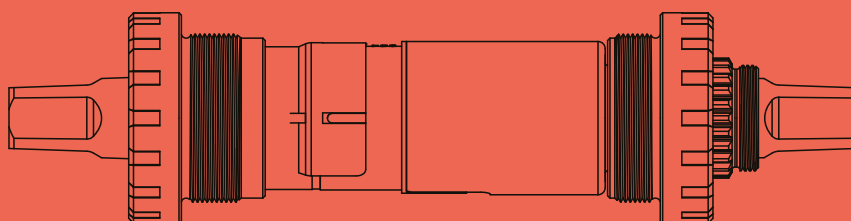
CITY



CARGO

扭矩传感器

## BBTS3SD



Choose either the sport or city version of this rigorously tried and tested bottom bracket. A reliable workhorse designed to the specifications of the common JIS interface.

One of the best value dual-sided torque sensors out there, it's guaranteed to perform.

|                                               |                                                |                                        |                                                                                                 |
|-----------------------------------------------|------------------------------------------------|----------------------------------------|-------------------------------------------------------------------------------------------------|
| SPINDLE LENGTHS: 145MM, 158.5MM, 177MM, 197MM |                                                | INTERFACE: JIS SPORT / JIS COMMUTE     |                                                                                                 |
| BB INTERFACE: BSA EXTERNAL BEARING            |                                                | TORQUE MEASUREMENT RANGE: 0.5NM - 80NM |                                                                                                 |
| BB WIDTHS: 68MM-73MM, 84MM-86MM, 100MM, 120MM |                                                | SIGNAL SPEED: 36 PPR                   | <br>FABLED |
| OUTPUT VOLTAGE: 0.74V - 3.3V                  | CERTIFICATION: ISO13849-1:2015 / EN15194: 2017 |                                        |                                                                                                 |



**CMTS2SD**



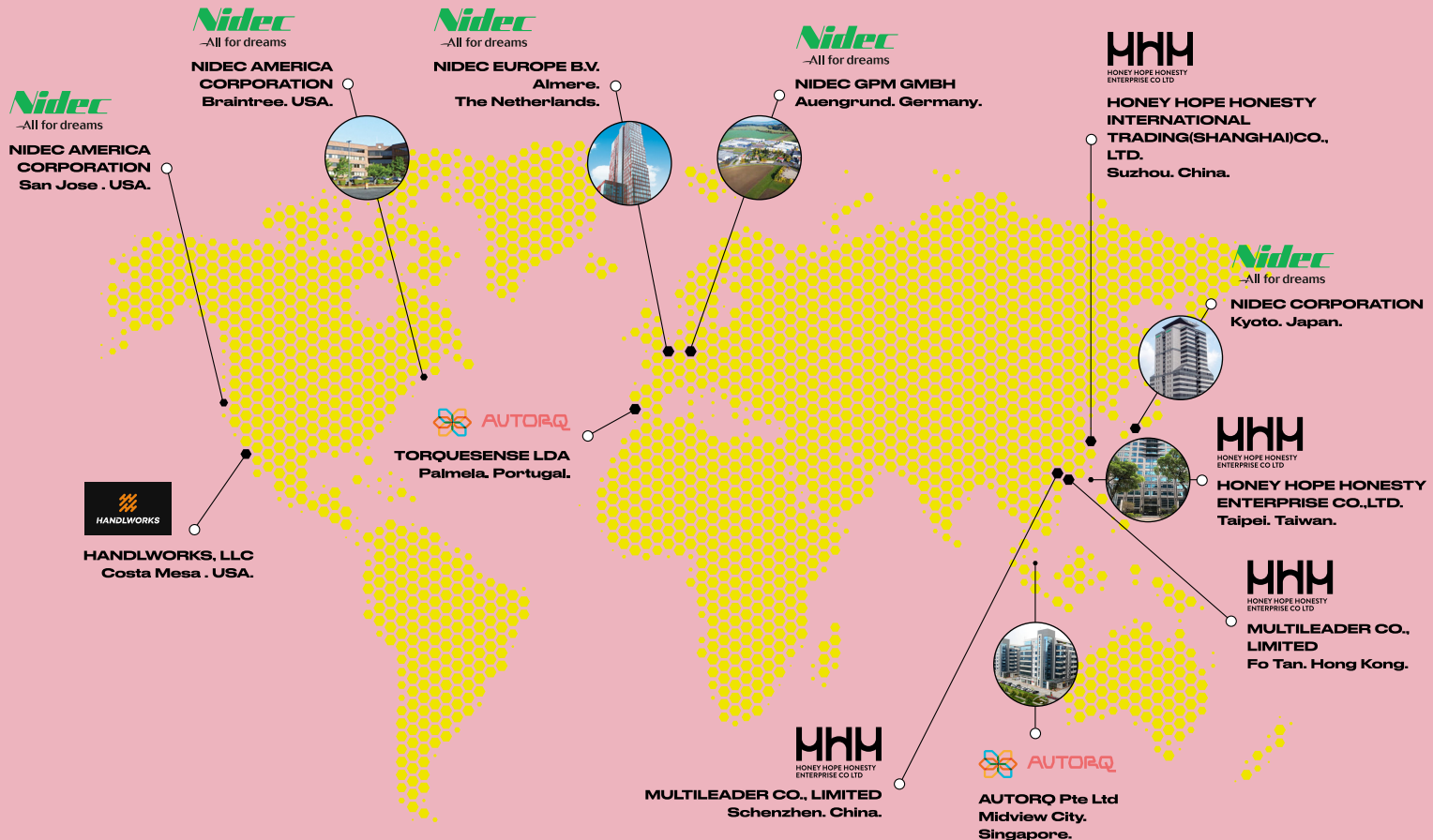
**BBTS1SD**



**BBTS3SD**



# THE SERVICE NETWORK



**Honey Hope Honesty Enterprise Co., Ltd.**  
(co-development and exclusive distributor)

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**Multileader Co., Limited**

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**Nidec America Corporation**  
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**Handworks, LLC**  
(sales & after services)

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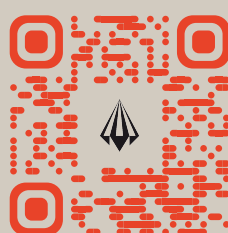
**AUTORQ Pte Ltd Singapore**

18 Sin Ming Lane #07-01 Midview City, Singapore 573960  
email: [info@autorq.com](mailto:info@autorq.com)

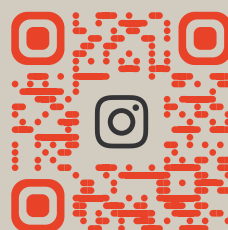


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