



**FABLED**

**make it real**

それを現実にする

**2023**

馬達 - モーター



# 41R

MOTOR

Heavy duty for Cargo eBike system



MTB



ROAD



TOUR

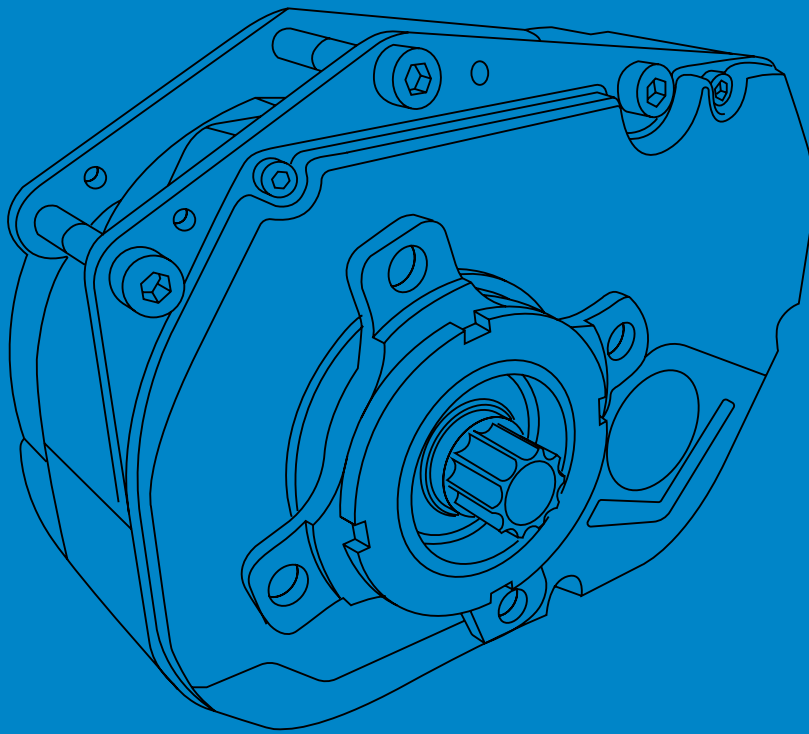


CITY



CARGO

**Nilec**  
-All for dreams



SENSOR: TORQUE, CADENCE, ANGLE, SPEED

SIZE 225x92x148 MM

XXX  
XXX

POWER DC 36V / 250 W DC 48V / 350 W Max 750W



TOOLS: EPAB  
DIAGNOSTIC TOOL

± **5KG**

TORQUE

**95 Nm @ 40RPM**

Torque weight ratio 52.63 g/N.m

OTHER FUNCTIONS: Brake cut off, Walk assist, Angle sensor

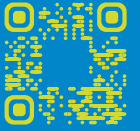


FABLED

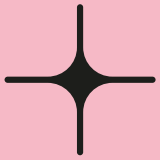
馬達・モータ



# 41R



馬達 - モーター



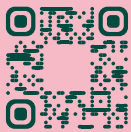
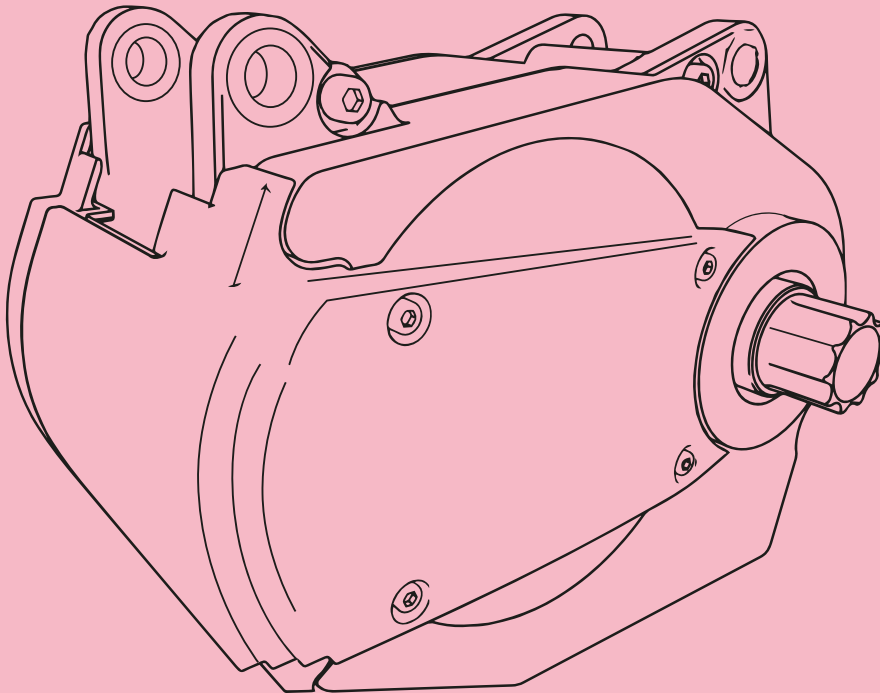
# 51R

MOTOR

Intelligent heart of eBike system



**Nidec**  
-All for dreams



Light weight and Tought 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



± **3.1KG**

TORQUE

**90 Nm @ 50RPM**

Torque weight ratio 34.06 g/N.m



FABLED

TOOLS:EPAB DIAGNOSTIC TOOL

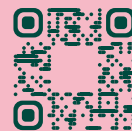
OTHER FUNCTIONS:

Brake cut off, Walk assist, Angle sensor

馬達-モータ



# 51R



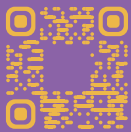
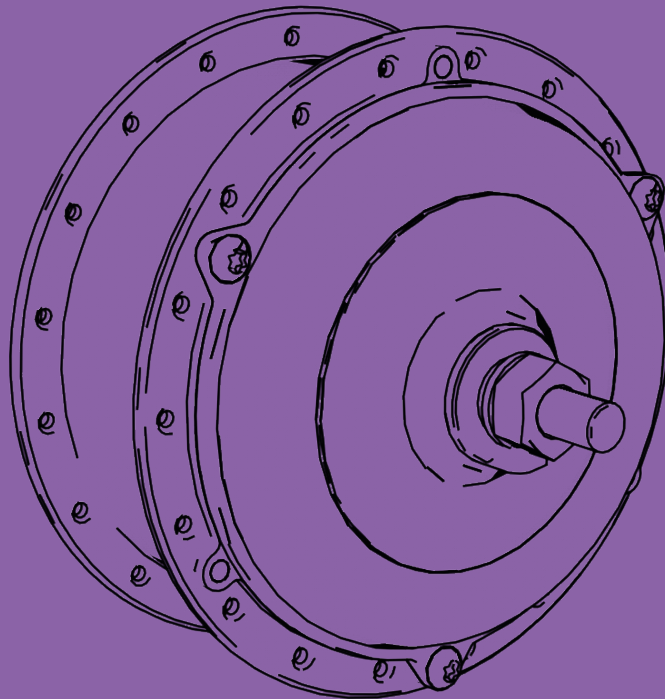
馬達 - モータ




# 55R

FRONT HUB MOTOR

Intelligent heart of eBike system



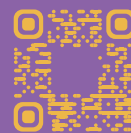
Durable and price Competitive

ACHIEVES WEIGHT REDUCTION WITH A SIMPLE CONFIGURATION		GEAR (REDUCTION RATE) <b>20.235</b>
INCREASED MILEAGE DUE TO REGENERATION FUNCTION		SIZE: $\varnothing 138.3 \times 105$ MM X X X X X X
$\pm$ <b>2.1KG</b>	TORQUE <b>PEAK 38 Nm</b>	 <b>FABLED</b>
TEMPERATURE, SPEED SENSOR QUICK RESPONSE AND STABILITY	POWER 250W. 36V ⚡⚡⚡⚡	

馬達 - モータ



# 55R





馬達-モータ

# L13S5DPCOTH

REAR HUB MOTOR

Design in Japan, Mass production in Vietnam



MTB



ROAD



TOUR



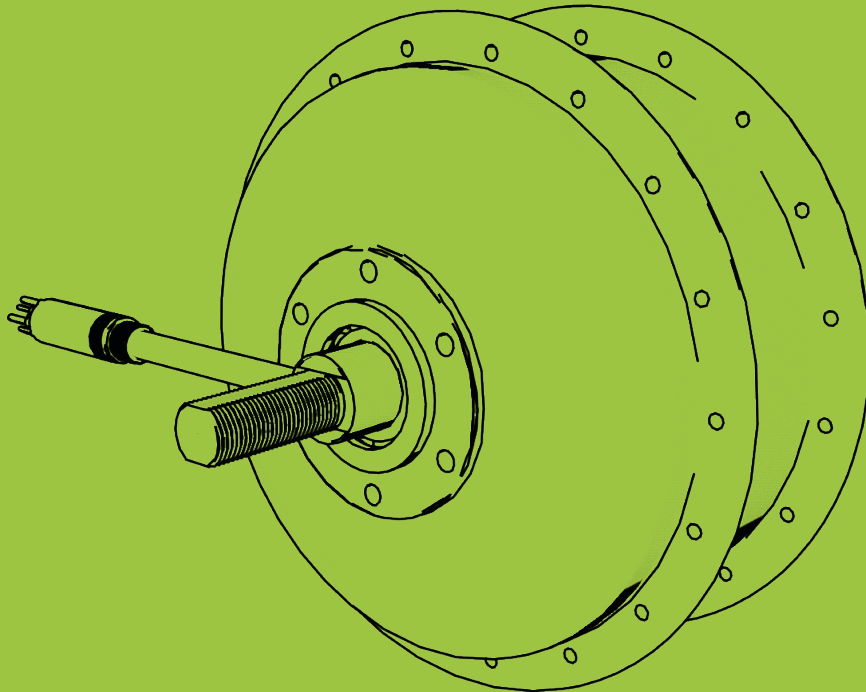
CITY



CARGO



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:  $\varnothing$ 133x65.5 MM

TORQUE **60 Nm**

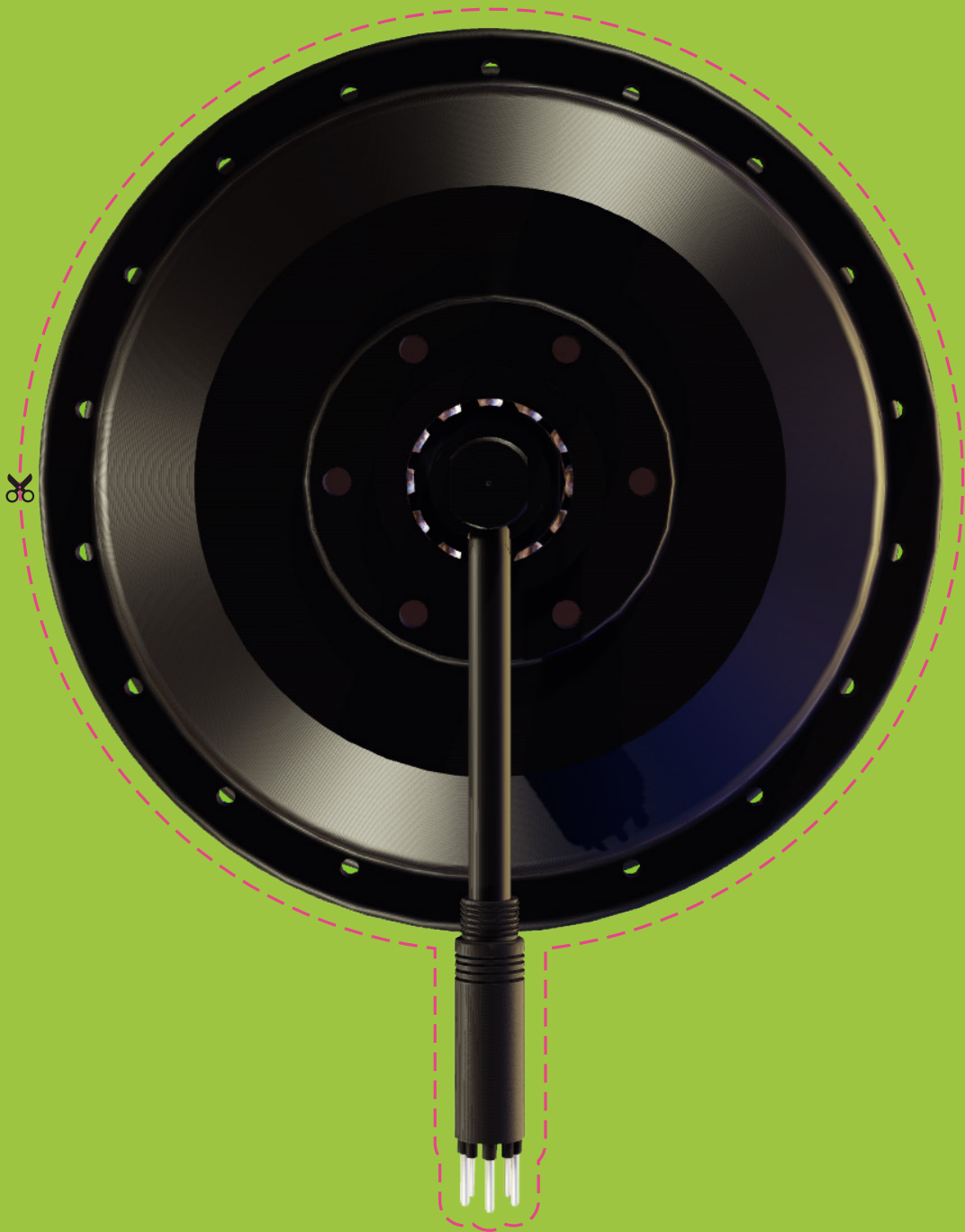






高速-モータ

**L13S5DPC0TH**



馬達 - モータ



# 56R

FRONT HUB MOTOR

Intelligent heart of eBike system



MTB



ROAD



TOUR

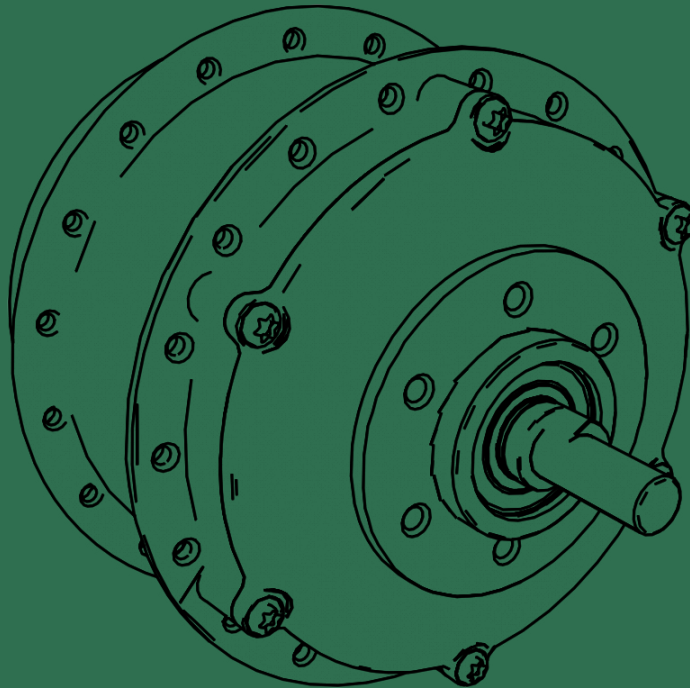


CITY



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:  $\varnothing 120.5 \times 100$  MM

XXX  
XXX

$\pm$  **2KG**

TORQUE **PEAK 70 Nm**



FABLED

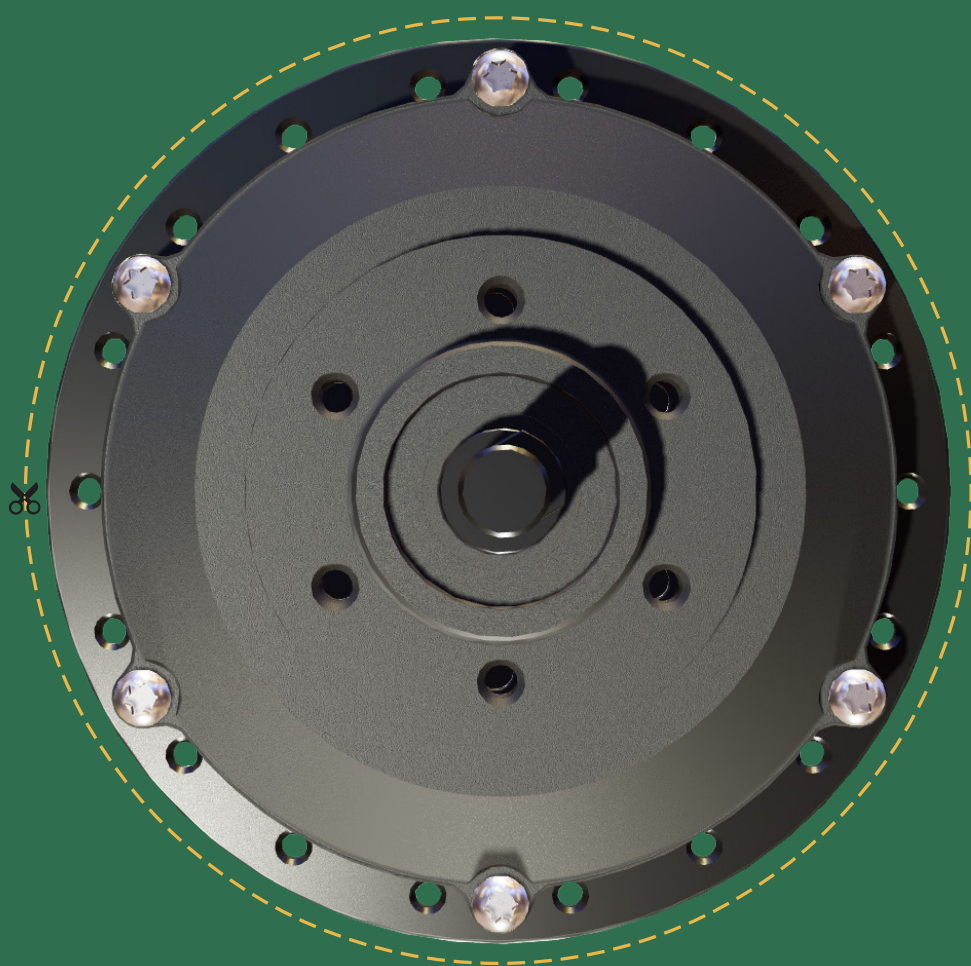
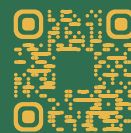
TEMPERATURE, SPEED SENSOR  
QUICK RESPONSE AND STABILITY

POWER 260W.48V



馬達 - モータ

# ✦ 56R



REAR HUB MOTOR



馬達 - モーター

# 1KW MOTOR

Intelligent heart of eBike system



MTB



ROAD



TOUR

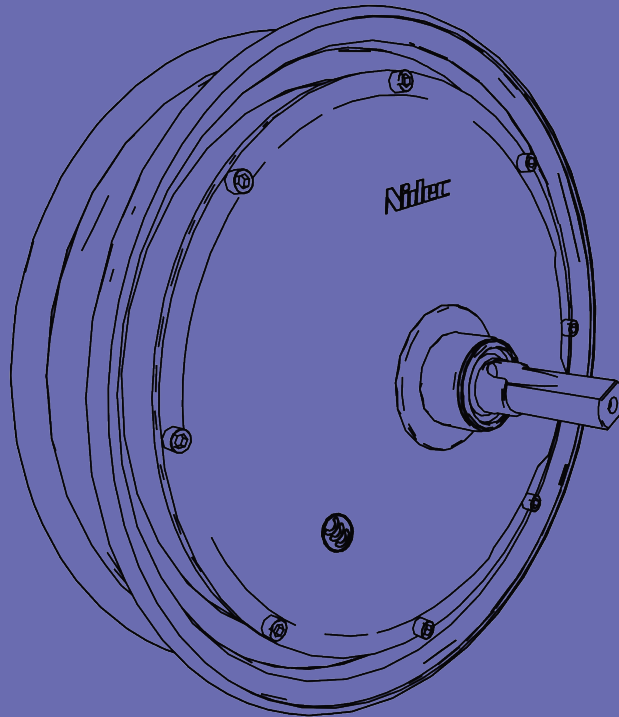


CITY

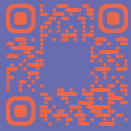


CARGO

**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:  $\varnothing 273 \times 235$  MM

XXX  
XXX

$\pm$  **7KG**

TORQUE **PEAK 65 Nm**

TEMPERATURE SENSOR  
QUICK RESPONSE AND STABILITY

POWER **1,650W.48V**

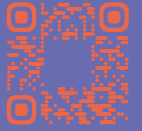


FABLED



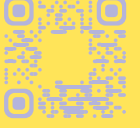
馬達-馬一夕

**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 **3.6V 3.45Ah, 12.42Wh**

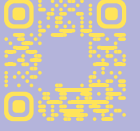
BATTERY PACK RATING - **36V 13.8Ah Typ. 496.8Wh**

MAX. PEACK 30A DISCHARGE CURRENT (5SEC, 10~40DEGC)





# EEL-PRO



## BATTERY PACK



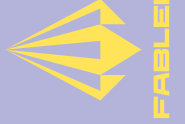
### High Safety Panasonic cells & intelligent BMS

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, OCCP, ODCP & Short Circuit Protection  
CANBus Open or CANBus Protocol / ISO13849 / UN38.3 / MSDS / IEC62133 / CE



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

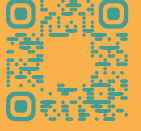


BATTERY PACK RATING - **36V 17.25Ah Typ. 621Wh**

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, OVR, 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**

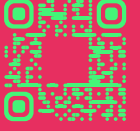
**MAX. PEACK 50A DISCHARGE CURRENT (τ10SEC, 10~40DEGC)**







# SB0122



**BATTERY PACK**



OTP, UVP, OVR, 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 3.6V 3.45Ah, 12.42Wh**

**CHARGE VOLTAGE - 54.6V, CUT OFF < 323MA**

**CHARGE CURRENT: 3,000mA (Standard)**



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



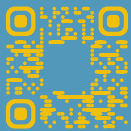
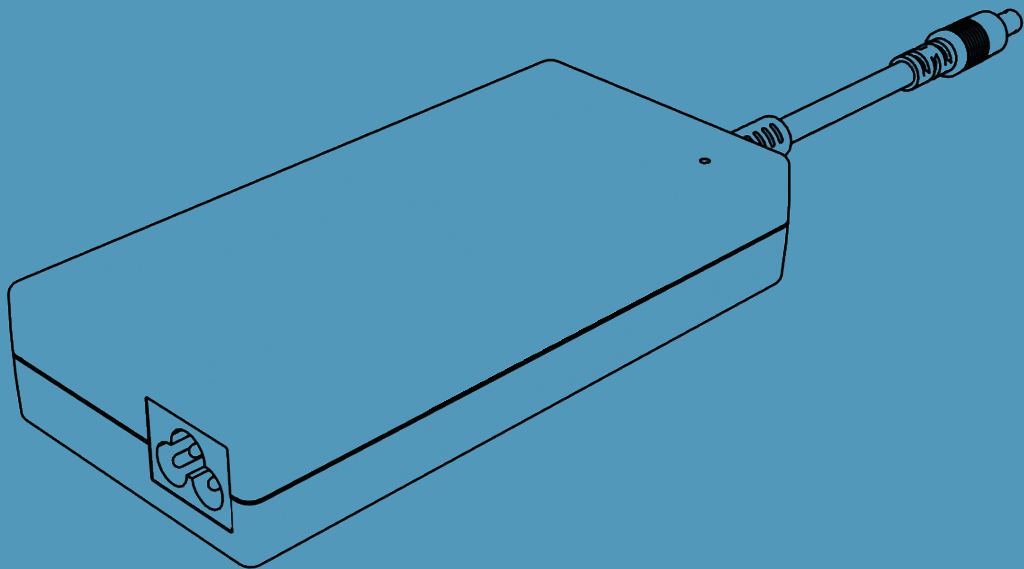
TOUR



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

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

SIZE 148x72x30 mm

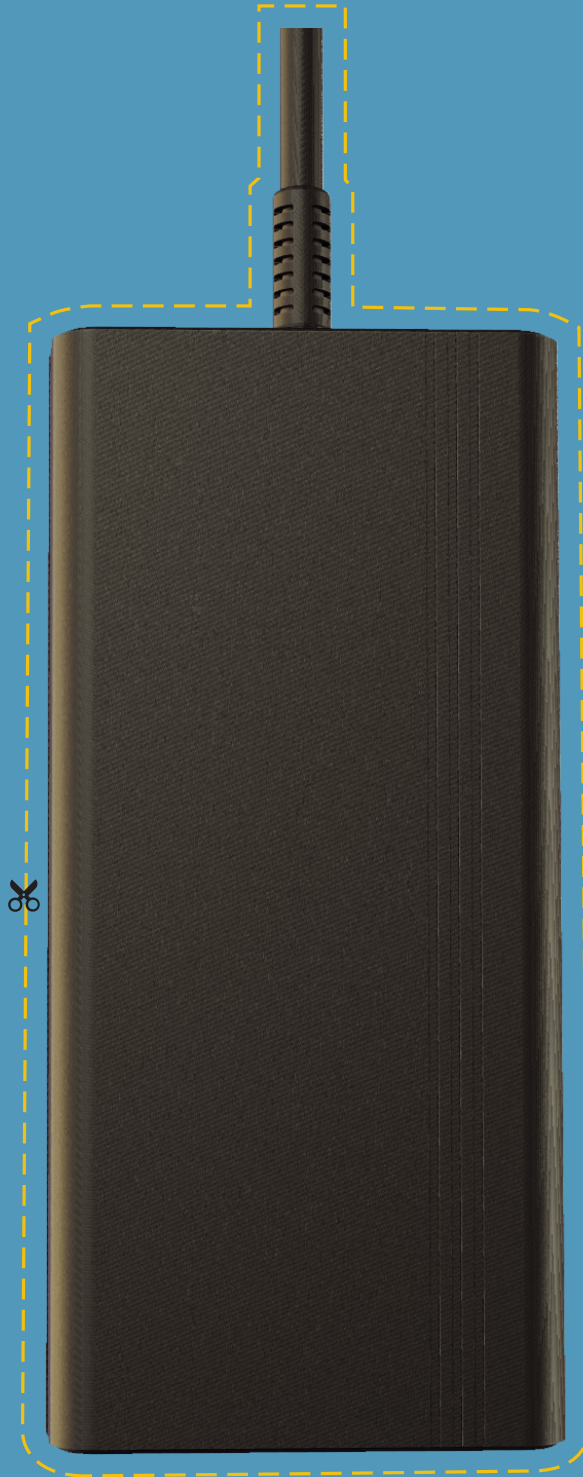
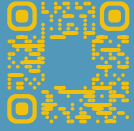


FABLED

充電器



# SMART GAN CHARGER



ワイヤレス充電器



# WIRELESS CHARGER

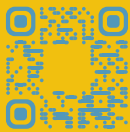
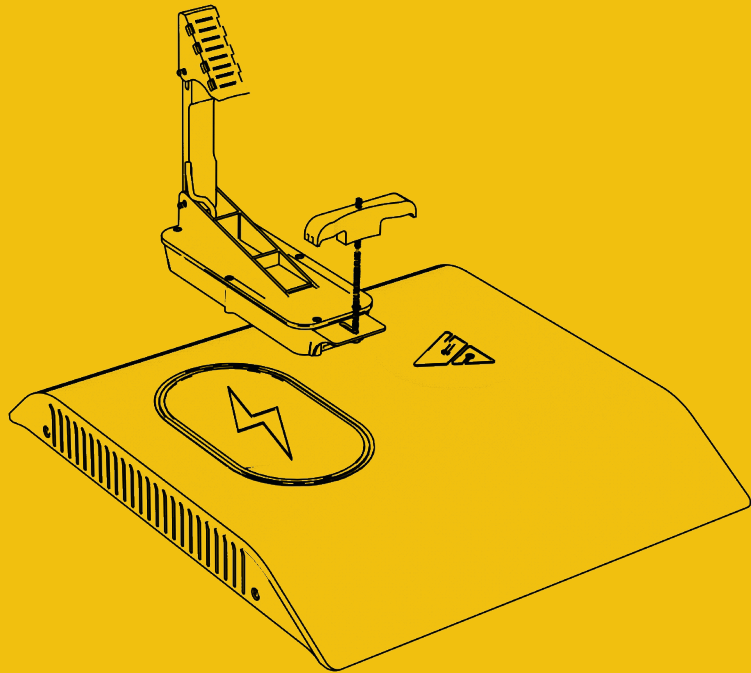
## WIRELESS CHARGER

eMicroMobility MR Wireless Charging



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/eS-cooter Wireless Charging



R321

36V BATTERY  
VCHARGE 42V AT 150W

R322

48V BATTERY  
VCHARGE 54.6V AT 150W

R323

52V BATTERY  
VCHARGE 58.9V 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

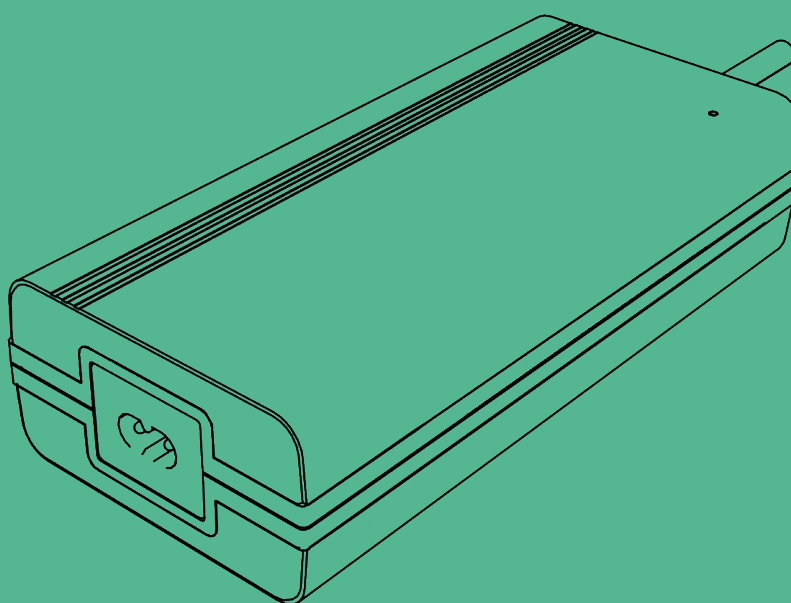
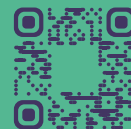


CITY



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**

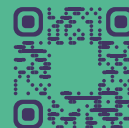
SIZE: 180\*85\*46 mm

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



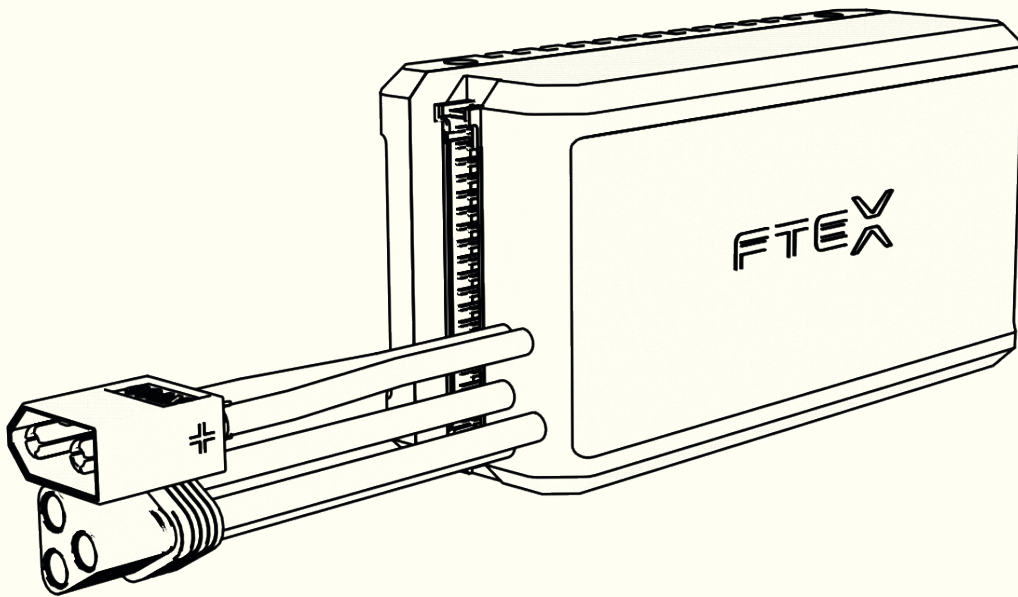
TOUR



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

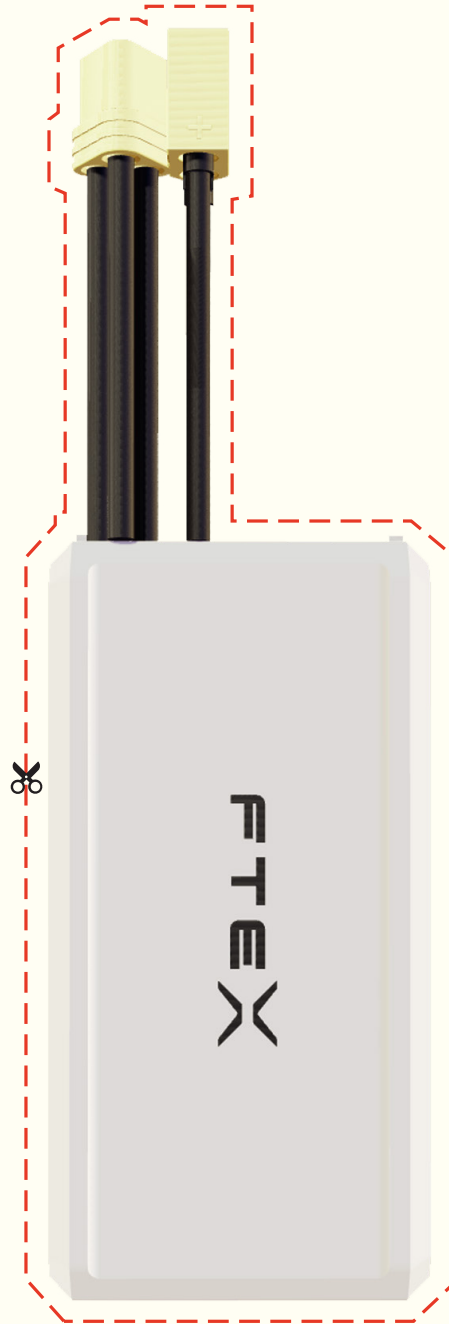


FABLED



控制器-コントローラ

**EVIONICS POWER**





# AUTORQ

Accurate. Precise. Robust.



MTB



ROAD



TOUR



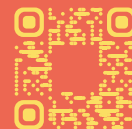
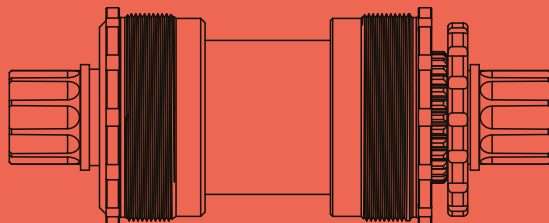
CITY



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.

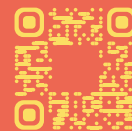
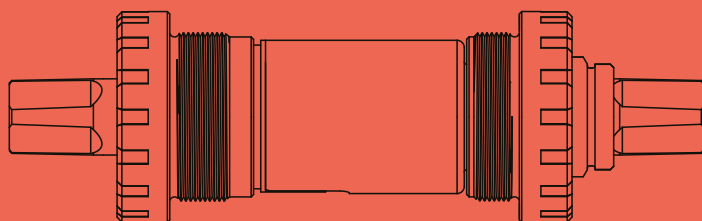
<b>BB WIDTH: 68MM</b>	<b>TORQUE MEASUREMENT RANGE: 0.5NM - 80NM</b>	<b>SIGNAL SPEED: 36 PPR</b>
<b>BB INTERFACE: T47</b>	<b>SPINDLE LENGTH: 123MM</b>	<b>INTERFACE: ISIS DRIVE</b>
<b>OUTPUT VOLTAGE: 0.74V - 3.3V</b>	<b>CERTIFICATION: ISO13849-1:2015 / EN15194: 2017</b>	



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.

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



FABLED



# AUTORQ

Accurate. Precise. Robust.



MTB



ROAD



TOUR



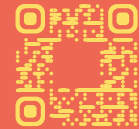
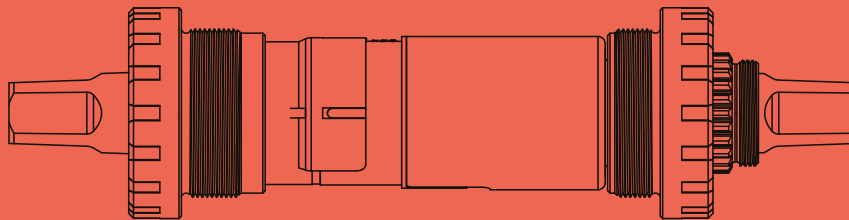
CITY



CARGO

扭矩传感器

## BBT53SD



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	
OUTPUT VOLTAGE: 0.74V - 3.3V		CERTIFICATION: ISO13849-1:2015 / EN15194: 2017	



FABLED



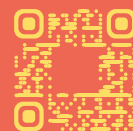
**CMTS2SD**



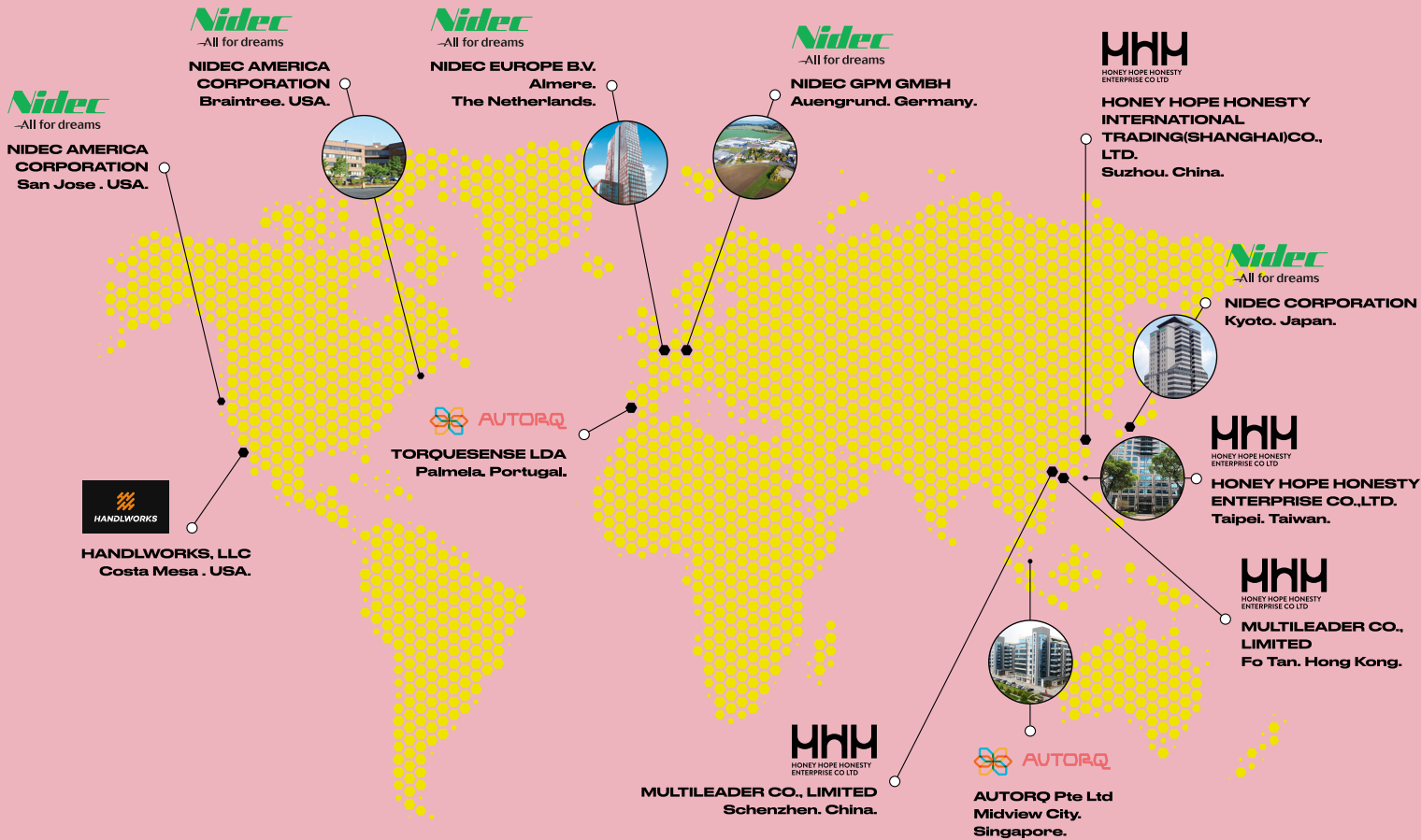
**BBTS1SD**



**BBTS3SD**



# THE SERVICE NETWORK



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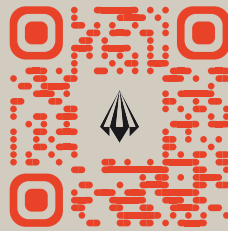
**AUTORQ Pte Ltd Singapore**

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

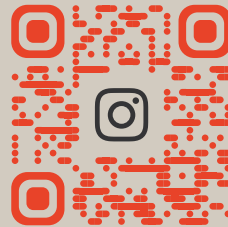


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