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ABOUT TRANZX

In the year of 2009, TranzX changed the face of the global E-bike industry by introducing our first E-bike, the Eagle, and revolutionized the world of urban E-mobility with Eagles's success. No longer were E-bike made conventionally, E-bikes now inspire teens, adults, men and women worldwide in various forms.

Since the debut of the first TranzX E-bike system in the year of 2007, TranzX has made tremendous progress in building a diverse drive system to supply this fast-changing market. Our passion never ceases in search of greater e-mobility solutions. To this day, inspiration and innovation, our core values, continue to guide us on this journey towards new possibilities.





A system features an extremely light R17 rear hub motor with a quick-release function, making e-gravel/road bikes wheelset changing more efficiently. Up to 45N.m torque output and a smart BB06T torque sensor provides cyclers strong and smooth pedal assist in various riding scenarios.

R17 system also perfectly integrates an in-tube battery, a frame embedded HMI with remote control panel keep the bike simple yet elegant outlook.



The new compact R17 hub motor is designed for e-bike cyclers who love adventure, and concern their bike's weight and wheel changing process during the journey.



The DP33 HMI presents a compact size with 1.3" OLED screen which delivers essential data to read. Besides a single button on the body, an ergonomic remote unit RC33 helps cyclers in operation comfort and intuitive switching experience.



The lightweight (<2kg) 245Wh BL27 battery equipped with a controller that can be fully integrated in the down tube to give e-bikes a neat outlook.



The patented BB06T ISIS bilateral bottom bracket torque sensor measures both cadence and torque at each pedal, supporting seamless on/off pedal assist in every cylcing.

R17 REAR HUB MOTOR





FEATURES

• Voltage: 36V

• Compact size: 119mm • Featherweight: 1.85kg

• Powerful output: 45N.m

• Standard M12 quick-release thru axle

• Support up to 40 km/h

• Up to 12 speed cassette

R17 is a compact, featherweight rear hub motor, and thanks to the unique design, changing e-bike rear wheel will not be a pain in the neck anymore. Patented two-stage planetary reduction mechanism increases durability of gears by 20% ~ 30%.



45 N.m **TORQUE**



40 Kph MAX. SPEED



R17 Plus





R17: 1.85 kg R17 Plus: 2.03 kg BOOST THRU-AXLE



M12

LIGHT WEIGHT



R17 PLUS REAR HUB MOTOR WHEEL ASSEMBLY

Connector Type

Patented magnetic mechanism is adopted.

When the magnet appeal to steel plate, fasten thru-axle so the female end is been pushed to connect male end on the motor.







R17 PLUS REAR HUB MOTOR WHEEL DISASSEMBLY



Connector Type

Patented magnetic mechanism is adopted.

- Firstly, the thru-axle is rotated, the female end is detached with thru-axle in 1st stage.
- Secondly, the connector is clamped by the limit device in the 2nd stage.
- Finally, keep rotating to separate the quick release axle from the connector. The quick release axle can be pulled out.



The state of connection.

(Female & Male end has connected)



1ST Stage

- The thru-axle is rotated, and female end is detached with thru-axle because of magnetic appealing.
- Now female end detaches about 7.5mm from connecting point in the motor.



2nd Stage

- Keep rotating and pull out thru-axle, and now the connector is clamped by limit devices on the frame so can't pull out together.
- Now thru-axle detaches from connector's female end.



3rd Stage

 After thru-axle completely detaches from connector, pull out the axle and take the motor down.

DP33/RC33 FRAME EMBEDDED HMI

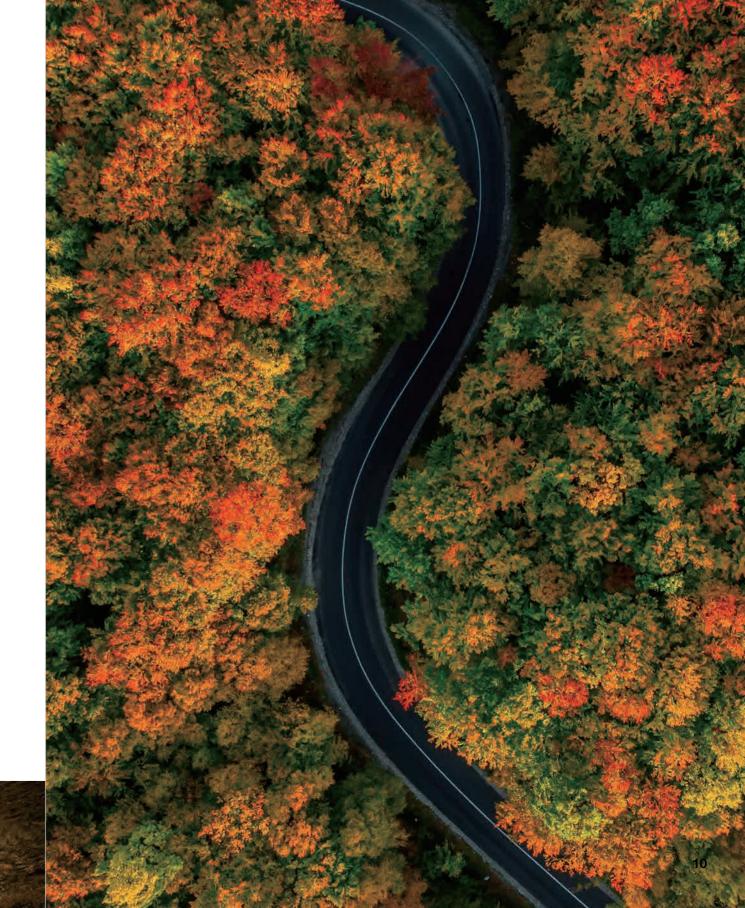
FEATURES

- 1.3"OLED screen (64*128 pixels)
- Dimension: L81 x W27 x H26 mm
- Communication: CANBUS
- Motor support level: 0~4
- Information: support level / speed / ODO / battery indicator / error code / walk..etc
- Bluetooth connection available
- Optional RC33 remote control panel
- Ingress level: IP65

DP33, the embedded one button HMI reveals essential information to boost cyclers concentrating on their cycling.







BL26 IN-TUBE BATTERY



FEATURES

- 36V, 14Ah, 504Wh
- Cells type 18650
- Available for upside or downside mounting
- 2 steps of release for users safety

DIMENSION

- 374 * 85 *93mm
- EN 15194: 2017 COMPLIANCE

BL26 in-tube battery provides 504Wh capacity, and the variant mounting styles fit different frame designs.





MOUNTING & RELEASE

UPSIDE MOUNTING



TURN THE KEY TO UNLOCK



DOWNSIDE MOUNTING



PRESS THE RELEASE BUTTON



BL27 IN-TUBE BATTERY





FEATURES

- 36V, 6.8Ah, 245Wh
- < 2.0kg (controller included)
- Cells type 18650
- BMS and controller integrated

DIMENSION

- 467 * 47 * 41.5 mm (controller included)
- CE/UN38.3/ISO13849 COMPLIANCE

The lightweight BL27 battery equipped with the controller that can be fully integrated in the down tube.

BB06T ISIS DRIVE TORQUE SENSOR



FEATURES

- Torque detect sensitivity 2 N.m
- Cadence resolution up to 10°
- ISIS drive interface
- Customizable shaft length for frame
- Press Fit or Threaded type
- Patented axial clearance adjustment rings
- N.W.: 435g

An innovative BB06T sensor has bilateral torque and cadence detection function. Thanks to patented axial clearance adjustment rings, users are able to eliminate axial clearance and avoid preloading at the same time.









|R17

(Plus)





R16 45 N.m





CITY

An e-city drive system is designed for urban cyclers that aims to craft a leisurely and comfortable riding experience in the daily commute.

CARGO

A robust e-cargo drive system is designed as a good substitue for large, heavy e-cargo systems. Cyclers can load parcels and transport them without worring the terrain.



Line	Series	Display	BB Sensor	Battery	Motor
City	R16 Series	DP31	BB05C/BB05T	BL26	R16
City	M17L Series	DP32	Built-in	BL26	M17L



Line	Series	Display	BB Sensor	Battery	Motor
Cargo	M18 Series	DP32	Built-in	BL26	M18

ROAD & GRAVEL

An ultralight e-road drive system is meant for creating cyclers a convenient and powerful riding experience. With boost thru-axle design, each ride could become more efficient.



Line	Series	Display	BB Sensor	Battery	Motor
Road &	R17 Series	DP33	BB06T	BL27	R17/R17 plus
Gravel	R16 Series	DP33	BB05T	BL27	R16 R16L

TREKKING/ MOUNTAIN

A durable e-mountain drive system features powerful output while crossing challenging terrain. With responsive torque sensor technology, an instant pedal assist allows cyclers focusing on the road.



Line	Series	Display	BB Sensor	Battery	Motor
Trekking / Mountain	M17 Series	DP32 DP31	Built-in	BL26	M17















	M17	M17L (NEW)	M18 (NEW)	R17 (NEW)	R17 (PLUS)	R16 / R16L
Position	Central	Central	Central	Rear	Rear	Rear
Voltage	36V	36V	36V	36V	36V	36V
Max.Speed	25/32kph	25/32kph	25/32kph	25/32/40kph	25/32/40 kph	25/32kph
Weight	3.20 Kg	2.75 Kg	3.3 Kg	1.85 Kg	2.03 Kg	2.00 kg (R16L: 1.7kg)
Max. torque	85 Nm	50 Nm	100 Nm	45/38/30 Nm	45/38/30 Nm	45/38 Nm
Nominal output	250W	250W	250W	250W	250W	250W
Noise Level	69 dB	69 dB	69 dB	65dB	65dB	65dB
Coaster Brake Compatible	NO	NO	NO	Disc Brake	Disc Brake	Disc Brake
Ingress Protection	IPX5	IPX5	IPX5	IPX5	IPX5	IPX5
Diameter				119 mm	119 mm	119 mm
BB Axle	ISIS	ISIS	ISIS	X	Х	х
Thru-Axle				Thru axle 12mm	Thru axle 12mm	
O.L.D.				148 mm	148 mm	142 mm
Cassette Max.				12 speed	12 speed	11 speed
Connector Type			-	9 pins wire	plug in and out	
Origin	TW	TW	TW	TW	TW	TW





	BL26	BL27
Position	In-Tube Type	Fully In-Tube Type
Voltage	36V	36V
Capacity	14Ah	6.8Ah
Wh	504Wh	245Wh
Weight	2.80 Kg	<2.0 Kg
Origin	TW	TW











	DP31/RC31	DP32/RC31	DP33/RC33
Position	Left/Left side of display	Central / Left side of display	Embedded in top tube
Screen Type	2.0" color IPS	2.8" color IPS	1.3" OLED
Support Modes	4	4	4
System	CAN BUS	CAN BUS	CAN BUS
Walking	Yes	Yes	Yes
Light Sensor	No	Yes	No
Bluetooth	Optional	Optional	Optional











BB06T TORQUE & CADENCE

BB05T/BB05L TORQUE

BB05C CADENCE

	(Threaded / Press Fit)	& CADENCE	BB03C CADENCE	
Input Voltage (Vcc)	4.5~5.5 V	4.5~5.5 V	4.5~5.5 V	
Torque Sensitivity	16 mV/N.m	16 mV/N.m		
Torque Range	0.5~80 N.m	0.5~80 N.m		
Cadence Signals	36 (Pulse/Cycle)	36 (Pulse/Cycle)	36 (Pulse/Cycle)	
Function	Rotational direction	Rotational direction	Rotational direction	
IP Rating	IPX5	IPX5	IPX5	
BB Width (Threaded)	86/92mm M47xP1.0 68/73mm M47xP1.0	68/73 mm	60 mm	
BB Width (Press Fit)	86.5mm / ID41mm 92mm / ID41mm	06/73 11111	68 mm	
Shaft Standard	ISIS	Square	Square	
Length of Shaft	Customizable for frame standard	146 mm/151 mm	122 mm	
Weight	435g (T47) / 381g (PF86/92)	410g/ 425g	275g	
Origin	TW	TW	TW	



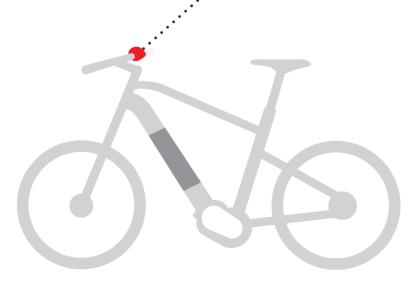
LOGIX

- LogiX diagnostic tool
- Instant response
- Accurate readings
- Automatic detection
- All-in-one diagnostic tool

- PC based tool
- Required only USB cable to access system
- Simple user interface for automatic error detection









SMART E-BIKE DIAGNOSTIC TOOL

The LogiX Line marks the newest generation of TranzX products, raising e-mobility system to the highest threshold in diagnostics, power and performance. Superior motor performance is monitored steadily and automatically through a variety of checking mechanisms-supported by continuous system read-outs and immediate error detection. Based on leading CANbus technology, LogiX uses fewer cables, provides a higher data transmission speed than the standard I2C bus. E-bike service and assembly are easier, and parameter such as assistance ratio can simply be adjusted.