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PRODUCT INFORMATION

Toyota bZ4X Flagship BEV

UMW Toyota Motor (UMWT) continues its journey towards carbon neutrality with the introduction of the new Toyota bZ4X, the flagship model in the Toyota bZ BEV (Battery Electric Vehicle) series. In accordance with Toyota's Multi-Pathway approach to achieving carbon neutrality, the bZ4X offers Malaysian customers another option in mobility.

'bZ' stands for 'Beyond Zero' which refers to beginning from zero (eliminating something negative) to aiming to create values Beyond Zero. It also represents Toyota's commitment to achieving carbon neutrality which includes going beyond zero-emission powertrains to create positive environmental and social impacts.

This new all-electric SUV represents a pivotal shift as the cornerstone of Toyota's Beyond Zero initiative. Developed with a focus on 'No Compromises', the bZ4X sets a new standard for reliability and innovation in the EV age.

While UMWT continues to offer Hybrid Electric Vehicles (HEV) such as the Corolla Cross Hybrid Electric, Vellfire HEV and Vios HEV, it also recognises that the charging infrastructure in Malaysia has become more extensive over the past few years. At the same time, there is growing acceptance of electrified vehicles among Malaysian consumers, making this a more practical time to introduce battery electric vehicles.

EXTERIOR DESIGN

The exterior design follows a 'Hi-Tech and Emotion' theme, featuring a 'Hammerhead' 3-dimensional front shape that defines the bZ series' identity. Viewing the bZ4X head-on, the design places emphasis on the corners to achieve a futuristic image. The result is an aerodynamic appearance, with the curved shape of the front bumper expressing a unique look and feel.

This styling does not only express innovation and sportiness but has functional aerodynamic purposes to maximise operating efficiency. Dynamic character lines flow from front to rear, with the axis lowered toward the tyres to create a dynamically flowing silhouette that takes full advantage of the long wheelbase.

A fully covered underbody smoothens airflow beneath the vehicle to reduce drag caused by turbulence. Additional features like a roof spoiler with a flat centre and a rear ducktail spoiler further manage airflow to lower resistance. These detailed features allow the bZ4X to achieve a low drag coefficient of 0.27 Cd.



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The vehicle is equipped with high-tech LED lighting, with the main beams of the headlamp segmented. The Day Running Lights, clearance lamps, and black slits further emphasise the Hammerhead image.

The bZ4X comes with standard lightweight 20-inch alloy wheels that emphasise its powerful stance and SUV capabilities. Designed with a large single piece of resin ornamentation to create a wide triangular surface on the outer circumference, the wheel diameter appears larger. Tyres sized 235/50R20 are fitted and have low rolling resistance.

Customers can choose from a choice of 5 exterior colours – Precious Metal, Attitude Black MC, Emotional Red, DK. Blue MC and Platinum White Pearl MC. The interior upholstery is black throughout.

INTERIOR DESIGN & FEATURES

The interior of the bZ4X reflects a design theme that creates a simple, warm and open 'bathtub-like' space. The dashboard is positioned low to provide an unobstructed field of vision for the driver. The centre console between the seats has a 'digital island' that clusters essential controls in an easy-to-reach location, including a dial-type shift controller. Being independent of the centre display improves space for the knees.

Multimedia infotainment and connectivity are handled by a 14-inch high-resolution centre display with an interface supporting wireless Apple CarPlay and Android Auto. The system also features an enhanced voice-recognition function that allows drivers to control certain vehicle features hands-free.

The simple cockpit module consists of a 7-inch graphic panel with a Multi Information Display. Set low, the panel's clean 3-dimensional shape does not obstruct eye movement from the hands to the display.

Paddle shifters are provided on either side of the steering column, but they are not for selecting gears as in conventional cars. The paddles are used to control the level of regenerative braking which recovers energy during braking and transfers it to the battery. Using the pedals, the driver can increase or decrease the braking force which will determine the amount of energy recovered.

For fatigue-free journeys, the front seats are power-adjustable 8 ways, with the driver's seat having 2-way power-adjustable lumbar support. To enhance comfort, the front seats, with synthetic perforated leather upholstery, have built in ventilation systems to maintain coolness on hot days.



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Of course, there is also an air-conditioning system with air quality enhanced with a nanoeX ion generator that cleans the air before it flows into the cabin. Unlike traditional filters that only clean air passing through them, nanoe X particles are released into the air and actively penetrate surfaces (including fabrics and carpets) to deodorize, remove odours and improve cleanliness.

At night, ambient lighting comes on in various areas of the cabin. The ambient lighting has a selection of 64 colours which can be chosen from the settings on the centre display. There's also indirect white lighting to illuminate certain areas.

A fixed panoramic glass roof lets in plenty of light to enhance the cabin's spaciousness and can be closed off when required. Soundproofing glass and wind-noise reduction features keep things quiet within, complementing the already quiet running of an EV.

BEV-DEDICATED e-TNGA

The bZ4X is the first Toyota model to use e-TNGA, a BEV-dedicated version of the Toyota New Generation Architecture (TNGA) that forms the platform and structure of the latest Toyota models. Because e-TNGA has been developed and engineered specifically for BEVs, it does not have the compromises that would be present with architecture designed for an ICE (internal combustion engine) vehicle.

The adoption of e-TNGA places the battery lower, resulting in a low centre of gravity while the battery cross-framing structure adds to overall vehicle rigidity for impressive handling.

The bZ4X's handling is also enhanced with the battery cross-framing structure, which adds to overall vehicle rigidity. The adoption of a lightweight body structure with sections of high tensile steel reinforced frame components around the battery pack coupled with a dynamic suspension contribute to the SUV's responsiveness.

BATTERY & DRIVETRAIN

Drawing on over 25 years of experience in electrified vehicle battery technology, Toyota has developed a lithium-ion battery with world-leading quality, durability and reliability. The battery, which has storage capacity of 73.1 kWh, has technologies which suppress deterioration for a longer service life.

Quality and performance are supported by monitoring of the battery's voltage, current and temperature at individual cell level. The battery is water-cooled for maintenance of consistent and optimum operating temperatures.



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During development of the battery, the engineers set a target of 90% capacity retention after 10 years/250,000 kms of use, a ratio which is better than batteries used in other Toyota models. This allows bZ4X owners to enjoy consistent levels of performance over a longer period.

The design of the battery has many measure to help ensure battery safety in all conditions. A non-conductive coolant runs through separated flow channels, while the housing is designed to withstand a collision from any angle due to its frame and cross-bracing design.

In developing the bZ4X, the aim is not just to reduce CO₂ but also to contribute positively to the environment. Thus the battery has been designed for recycling.

The front-mounted electric motor generates 167 kW and 269 Nm to provides strong acceleration for an exhilarating driving experience. The driver has a choice of two drive modes: Normal and Eco, allowing drivers to balance performance and efficiency for everyday driving. An intelligent throttle feature ensures smoother acceleration and deceleration, while slip suppression enhances control on low-grip surfaces.

With a fully charged battery, the bZ4X can travel up to 525 kms. When it is time to recharge, an 80% charge can be achieved in around 30 minutes with a DC fast-charger (maximum 150 kW). This provides an average charging rate of almost 10 kms/minute. A 22 kW on-board charger is also available for improved charging performance using AC power supply.

DRIVER ASSIST & SAFETY

The bZ4X has Toyota Safety Sense (TSS) to assist the driver in being aware of traffic and risk conditions around the vehicle, as well as take autonomous action (such as braking) when necessary. The system, which uses radar and camera sensors, has a broad detection range that covers identification of objects, including cyclists, motorcyclists and pedestrians.

Key active systems of TSS, which has up to 12 sensors around the vehicle, include Pre-collision System (PCS), Full-Speed Dynamic Radar Cruise Control (DRCC), Lane Tracing Assist (LTA), Adaptive High-beam System (AHS), Blind Spot Monitor (BSM).

The sensors also enable accurate detection of parked vehicles so that the bZ4X can automatically manoeuvre for parallel or perpendicular parking. This Intelligent Parking Assist system supports the steering, accelerator, braking and shift operations required for parking, enabling smoother and more confident manoeuvring into parking spaces.



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Another intelligent safety feature is the Parking Support Brake. This reduces the risk of accidents by detecting obstacles around the vehicle, vehicles or pedestrians approaching from the rear, and automatically applies the brakes when necessary to stop movement.

The same sensors that are used for BSM are also used for the Safe Exit Assist (SEA) system. This active safety system constantly monitors the areas towards the rear sides of the vehicle to detect approaching vehicles. Should the passenger start opening a door when there is a vehicle detected, a warning sound will activate to alert them of the danger.

Via the camera, TSS is also capable of reading speed limit signs and through the Road Sign Assist (RSA) system, the speed limit is shown on the instrument panel, so the driver is made aware of the limit in the area being driven through.

As with almost all Toyota models today, the bZ4X comes with a Panoramic View Monitor that provides a view (including from above) around the vehicle. It uses multiple cameras to display a 360-degree view on the centre display and is particularly useful for parking. Guidelines also indicate the vehicle's trajectory, enabling the driver to position the vehicle precisely.

The bZ4X is also equipped with a range of passive safety features designed to protect occupants and reduce injuries in the event of a crash. These include 8 SRS airbags around the front and sides of the cabin, with the front centre airbag preventing occupant-to-occupant contact.

ASSURED AFTERSALES SUPPORT

As with all Toyota models imported and distributed by UMWT, replacement parts are assured and full aftersales support is available at the nationwide service network. The vehicle is covered by a 5-year/unlimited mileage warranty, with the battery having its own 8-year/unlimited mileage warranty.

-ENDS-

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1. Toyota Subang (PCM Subang Motor)
2. Toyota Seri Kembangan (Wing Hin Auto)
3. Toyota Ampang (Wing Hin Motor)



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4. Toyota Sungai Buloh (Distinctive Model)
5. Toyota Kuala Lumpur (Fokus Sentral Cheras)
6. Toyota Kuala Lumpur (MTR Sg Besi)
7. Toyota Kuala Lumpur (Wheelcorp Old Klang Road)
8. Toyota Kuala Lumpur (Roda Express Auto)
9. Toyota Wangsa Maju (Motozoom)
10. Toyota Batu Caves (PS Otomobil)
11. Toyota Petaling Jaya (Laser Motor PJ)
12. Toyota Shah Alam (UMW Toyotsu)
13. Toyota Shah Alam (Fokus Tetap Setia Alam)
14. Toyota Shah Alam (G-Mart)
15. Toyota Alor Setar (Kulim Topwheels)
16. Toyota Kulim (Telagamas Kulim)
17. Toyota Temerloh (HLT Temerloh)
18. Toyota Bukit Mertajam (Fadason)
19. Toyota Butterworth (S&D Tama Prai)
20. Toyota Bayan Lepas (Prima Pearl)
21. Toyota George Town (S&D Tama Penang)
22. Toyota Tanjong Malim (Telagamas Tg. Malim)
23. Toyota Teluk Intan (Sirdi 333)
24. Toyota Ipoh (Autoria)
25. Toyota Johor Bahru (Hiewa Auto Gallery Tebrau)
26. Toyota Johor Bahru (Hiewa Auto Gallery, Larkin)
27. Toyota Johor Bahru (Saksama General)
28. Toyota Iskandar Puteri (Super Evergreen)
29. Toyota Kluang (Hong Huat Automobile)
30. Toyota Kota Kinabalu (Borneo Mobility Sabah)
31. Toyota Kuching (Boulevard Jaya)
32. Toyota Kuching (Best Auto Biz)
33. Toyota Miri (Rimbunan Hijau)