



PRODUCT INFORMATION

TOYOTA HILUX BEV

The first fully electric Hilux

UMW Toyota Motor Sdn Bhd (UMWT) introduces the all-new Toyota Hilux Battery Electric Vehicle (BEV) as part of its Multi-Pathway approach to carbon neutrality. In accordance with this approach, customers can choose mobility options that suit their requirements and local conditions so that no customer is left behind.

Built at Toyota's factory in Thailand the Hilux BEV, with its fully electric drivetrain, is the first Toyota Global Retail Pickup BEV. It is designed for the diverse needs of fleet customers and individual customers looking for a clean, sophisticated urban vehicle with off-road capability.

As a new member of the Hilux family, the Hilux BEV has the 'Tough and Agile' DNA that has made the model a leader in the pick-up segment in Malaysia and many other global markets. The introduction of battery electric power is a breakthrough innovation for the Hilux, achieved without sacrificing any of the model's renowned Quality, Durability and Reliability. It also marks the introduction of electrification to the Hilux on a body-on-frame platform, maintaining the construction that has been central to the model's strength and durability across generations.

Its introduction supports the Malaysian government's push towards electric mobility by offering a product that can contribute to corporate ESG (environmental, social, and governance) strategies. As with other EVs, operators of the Hilux BEV will benefit from reduced running costs, with lower parts maintenance and replacement requirements. Over several years, the benefits can be significant, particularly for business vehicle fleets.

EXTERIOR

The Hilux BEV adopts 'Cyber Sumo' styling in its design concept, incorporating the assertive stance of a sumo wrestler into its core styling elements. Reflecting its zero-emissions powertrain and emphasis on aerodynamic efficiency, the front design adopts a more closed-off grille treatment in place of a large traditional grille, while the 17-inch alloy wheels are also unique to this BEV variant.



A premium lighting image is created with advanced LED lighting, including slim High/Low Beam Projector Units and Daytime Running Lamps with Secondary Illumination (fine lines that run off the main DRL shape). The Hilux BEV presents a rugged image that has long been associated with the model, with muscular surfacing and geometric wheel arches.

The overall dimensions of the Hilux BEV match those of the other Double Cab models with an overall length of 5320 mm, width of 1855 mm, height of 1865 mm and a 3085 mm wheelbase. Customers can choose from three distinct colours: Ash, Platinum White Pearl (Premium), and Super White 2 (Fleet/Basic).

INTERIOR

The Double Cab cockpit has a Tough and Agile concept with the functional layout that has been a hallmark of the Hilux while providing comfort and convenience like a passenger car. The seats have combination leather upholstery and soft trim with stitching to present an image of high-quality craftsmanship. For a comfortable position, the driver's seat has 10-way power adjustment while the passenger seat can be manually adjusted 6 ways.

The 12.3-inch centre display panel houses the infotainment interface which has Apple CarPlay and Android Auto connectivity, as well as dual Type C USB ports. This is complemented by a 12.3-inch meter display for the driver. Management and adjustment of the main functions can be done from switches on the left and right sides of the steering wheel which has thinner spokes for better grip.

With the Toyota Remote app, the driver has the convenience of remote control of the vehicle for functions such as start/stop and door unlock/lock. The app also enables location of the vehicle as well as a Toyota dealerships, and can be used to schedule maintenance appointments or request for 24/7 assistance.

THE ELECTRIC DRIVETRAIN

The Hilux BEV's drivetrain employs compact and lightweight front and rear eAxles with an integrated inverter and transaxle engineered for optimum efficiency. The front eAxle produces 206 Nm of torque and the rear unit 267 Nm, with total power output of 144 kW (196 ps). The interior features an ergonomic shift-by-wire gear selector paired with an Electronic Parking Brake (EPB), enabling smooth and intuitive gear selection.

The 80-cell lithium-ion battery pack has a 59.2 kWh capacity and has been specially designed for integration within the frame of the Hilux. Temperature is controlled using

a high-resistance, long-life coolant which helps protect against corrosion and is resistant to conductivity – an important characteristic in high-voltage systems.

The battery's location lowers the centre of gravity, which in turn supports good stability and handling. Its location avoids any intrusion in the cabin and load space, while the frame design prevents the risk of the battery being damaged by twisting forces when travelling over uneven ground.

The battery pack itself is protected by a robust undercover as well as being located within the vehicle's structure. The frame's side rails have been reinforced with aluminium impact-absorbing sections to provide extra protection in the event of a collision. These important measures ensure that even as a BEV, the Hilux will still have the durability to tackle the toughest driving conditions.

Through the charging port on the left side, the battery can be recharged using a DC fast-charger at up to 150 kW or AC power supply of up to 10 kW. Charging from 10% to 80% at a DC charging station at 150 kW takes around 30 minutes, while with AC charging, the time from 10% to 100% is 6.5 hours (at 10 kW).

With a full charge, the Hilux BEV has a range of 315 kms (NEDC), which Toyota believes offers a balance between performance and range. The actual distance will be influenced by operating conditions and the load carried.

PERFORMANCE

The Hilux BEV is the first Hilux model to have an electric power steering (EPS), now a common feature in passenger cars. Compared to the conventional hydraulic system, this gives more direct response to the driver inputs, easier manoeuvring in both on and off-road driving and less risk of kick-back when travelling over rough surfaces.

Important for a BEV, EPS is also more energy-efficient, only using electric power when turning assistance is required and not when the vehicle is idling or moving in a straight line.

Based on extensive studies of pick-up usage and feedback from Hilux owners around the world, Toyota determined that a payload of 750 kgs – comparable to other Hilux double cab variants – gives the optimal balance between electric range, power, and usability. This allows robust electric performance and practical range, while still meeting the real-world needs of Hilux users.

In developing the Hilux BEV, the engineers had a clear objective that its off-road performance capabilities should closely match those of the other models with combustion engines.



To do this, it was critical to maintain a rigid rear structure that can withstand challenging terrain conditions. Additional crossmembers have been added and others have been reprofiled, while a new de Dion rigid leafspring rear suspension system has been adopted. This allows the rear eAxle to be accommodated without risking damage or compromising the pick-up's ability to tackle very rough terrain.

The BEV's approach and departure angles are similar to those of other Hilux models. The ground clearance is also matched, allowing a similar capability of crossing water up to 700 mm deep. For specific needs, the standard tyres can be changed to off-road tyres but as rolling resistance will be different, this will affect range and also noise levels.

The Hilux BEV is the first Toyota BEV to be equipped with Multi-Terrain Select (MTS), a 5-mode electronic system that automatically adapts vehicle performance to suit different off-road driving scenarios. MTS uses the drive force and braking control to maintain steady progress over difficult and rough terrain. The precise control of drive torque and braking is the result of extensive real-world testing on different off-road terrain.

The driver can choose settings appropriate for different surfaces such as rock, sand, mud, dirt, and for the first time in a BEV, bumpy surfaces (Mogul mode). There is also an automatic mode which allows the system to adopt the most suitable setting, according to vehicle behaviour and driver inputs, and operate with optimum traction.

SAFETY

As with many Toyota models today, the Hilux BEV also comes with Toyota Safety Sense (TSS). This third-generation ADAS (Advanced Driver Assist System) consists of Dynamic Radar Cruise Control, Lane Tracing Assist, Blind Spot Monitor, Rear Cross Traffic Alert, and Auto High Beam.

Additionally, a Panoramic View Monitor is also standard. This provides a view of the vehicle's surroundings as well as from above to assist the driver during parking and manoeuvring.

QUALITY, DURABILITY AND RELIABILITY

Quality, Durability and Reliability (QDR) have been fundamental to the success and popularity of the Hilux since the first generation was launched in 1968. The Hilux BEV would not be worthy of the model nameplate if it did not have similar QDR as all other Hilux models past and present.



Move your world

To ensure that it would be an authentic Hilux, the new model was subjected to the same rigorous quality testing, together with additional tests specific to its electric powertrain. These included deep water crossing; high-speed water intrusion checks; off-road durability trails;. To help safeguard against any water entering the electric motor, the eAxle breather is set high on the unit. As a result, the essential QDR has not been sacrificed or compromised, ensuring that this vehicle will be the same trusted mobility partner like any other Hilux.

AFTERSALES SUPPORT

The Hilux BEV comes with a 5-year warranty up to 150,000KM. The battery pack has a separate warranty of up to 8 years, unlimited mileage, with an optional extension into the 9th and 10th year. As with all Toyota vehicles distributed by UMWT, full and qualified aftersales support, including replacement parts, is available from the comprehensive nationwide network.

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