

# **King Long:ECO Highlights of Exhibit Vehicles at 2017**

## **Busworld Kortrijk**

At the 2017 Busworld Kortrijk, King Long, as the only Chinese bus manufacturer participating this exhibition for 7 times consecutively, has brought huge surprises to European customers and bus industry. Four blockbuster exhibit products, covering fields of passenger transport, public transit, and special vehicle, have included diversified power platforms pure-electric and Euro-VI engine, as well as hydrogen fuel bus technology, which is shown by VR demonstration. All these have shown King Long's capability as a world's first-class passenger transport bus manufacturer for providing high quality solutions, and perfectly manifested the exhibition theme of "ECO for better move".

So which environmental-friendly, ingenious, and original features are embodying on four exhibit models of King Long to provide safer and more comfortable riding experiences for European and world's users and offer better operation benefits for bus operators?

### **China's high-end bus Longwei II debuts at world's stage**

Longwei I has become a legend of Chinese bus industry ever since the market launch in 2007. Longwei I is also a King Long's symbol familiar to European users. Longwei buses are under operation in U.K, France, and Italy. At the 2017 Busworld Kortrijk, the debut of Longwei II at world's stage attracted the attention from numerous users.

During the all-round upgrade of Longwei II, King Long synchronously initiated the R&D of Longwei II Overseas version based on new generation Longwei platform. Longwei II debuted at this exhibition is a high-end masterpiece tailored especially for EU market throughout one year. As a classic-inheriting product of King Long, it inherits and upgrades the classic elements of Longwei I in design to achieve more elegant and graceful in vehicle modeling. In data age, the new generation Longwei innovatively established the modular and platform R&D mode and whole-process

data management development mode to realize high harmony of vehicle.

Challenging the world's high-end bus manufacturers, Longwei II not only represents the leading Chinese bus' manufacturing level, but also surpasses the EU standard in some indexes. For instance, the application of highly flame-retardant upholstery materials achieves a flame-retardant level superior to the EU's current standard requirements. The 3H body frame structure promotes the vehicle stiffness by 10~12% compared with Longwei I, which has improved vehicle safety and ensure surviving space in event of rollover is superior to the regulatory requirements while meeting the EU standard requirements. Longwei II also realizes remarkable improvement in economy. For instance, the structure design optimization of engine compartment improves heat dissipation efficiency. The butterfly-shaped air vent structure at engine compartment door, CFD simulation optimization, and wind tunnel test realize fuel-saving of 0.5~1L/100km.

Integrating numerous humanized designs, Longwei II offers a comfortable and convenient riding experience for both driver and passengers. The hot & cold air conditioning system incorporates functions of cooling, heating, defrosting, and full-automatic humidity control, in order to achieve more comfortable body feeling. The numerous humanized designs ease the services and maintenance, including structural design of removable crossbeams, central arrangement of electronic units in luggage compartment, and removable body and chassis part design for post-processor compartment.

### **Comprehensively upgraded European star model C9**

C9 is favored by many users in recent 10 years ever since its entry into EU market. It can be deemed as King Long's popular model in Europe. Comparing with previous model, C9 at this exhibition is significantly upgraded for the first time, from modeling to upholstery, in order to achieve remarkable improvements in appearance, safety, environmental-friendliness, economy, and comfort.

The new C9 is more fashionable and smart in modeling. It is equipped with A/C deflector to optimize the bus aerodynamic performance, and realize better fuel-economy. The Q700 high strength steel is applied on the crucial frame structure,

and the structural design is optimized to effectively reduce the weight of vehicle and improve the structural strength and safety of the body. Upgraded to full-integral body structure design, this vehicle is reduced in weight by 350KG compared with 1<sup>st</sup> generation C9 to save fuel by 1~2L/100km. The vehicle strength is improved by CAE analysis and structural design optimization so that the surviving space allowance in event of rollover is improved by 23mm compared with previous model C9 to realized better safety.

The body structure is also newly upgraded. The capacity of the luggage compartment reaches 4.8m<sup>3</sup>, raised by 18% compared with previous model. The newly upgraded luggage racks are applied to reduce the weight, and the space dimension between seat cushion and luggage rack bottom is enlarged for better riding comfort. On this exquisitely built new C9, the installation structure of interior trim parts is optimized for smaller assembling clearance and more elaborate craftsmanship.

#### **APE14 environment-friendly airport shuttle bus**

King Long has 17 years of new energy R&D and product promotion experiences, which generated a series of independently developed new energy products and technologies. In recent years, with plug-in hybrid products, independently developed ISG system and 14m pure-electric shuttle bus exhibited this time, King Long has demonstrated its new energy R&D achievements for many times in world's top stages and showed its competition resolution in international new energy market.

Developed especially for airport road conditions and operation needs of, APE14 is equipped with multiple advanced technologies. It is applicable for airports around the world. The biggest highlight of APE14 is the application of the multiplex distributed wheel hub drive, double-charger DC quick charging, and 20min quick charging. It can meet the scheduling needs and truly realize 100% operation efficiency. In environment protection, APE14 not only realizes zero fuel-consumption, zero emission, and low noise, but also achieves repeated recycling and resource-saving. Its aluminum recycle rate of the all-aluminum body is up to 95%.

As for battery, the most critical part on pure-electric products, King Long choose the industry's first-class brands, including CATL and Microvast. The batteries are

integrated to the top of vehicle to expand the space of passenger area and protect the passengers. Proved by multiple destructive tests and extensive market, the battery features high safety. High standard insulation devices and fire extinguishers, heat-resistant insulation protection for passenger compartment, and intelligent safety pre-warning system guarantee the reliability of the high voltage system.

### **Brand-new modeling 18m BRT manifests urban style**

King Long's BRT is not only popular in China's market, but also exported in large batches to overseas market. The 18m BRT6180 exhibited this time is developed based on the brand-new modeling to achieve significant breakthroughs in appearance, performance and upholstery.

The wheelbase is optimized for the vehicle arrangement to achieve more reasonable seat layout and space utilization. The maximum seating capacity under EU standard hits 49, which reaches the industry's leading level among same class vehicles and meet the high capacity transport needs of BRT. The body structure and the materials for wheel rims, articulated trays, air duct brackets, and side window pillars are optimized to reduce the body weight by up to 5%, and remarkably reduce the operation fuel-consumption.

XMQ6180 features intimate interior settings. The exquisite design of off-ground handrails visually builds a larger interior space. The facilities, including external call button, inside wireless solar energy stop bell, barrier-free ramp, and wheelchair zone, offer convenience for the traveling of handicapped persons. The bus is installed with multiple USB charging ports and onboard WIFI for the passengers to enjoy network on city bus.

The birdcage type skeleton design plus tandem side wall pillars improve the vehicle strength and enhance passive safety. The wheel high-temperature warning device monitors the temperatures of tires and brake discs at real time. The active safety application of the smart cloud service platform independently developed by King Long can provide front anti-collision function, forward pedestrian safety warning, lane departure warning, and speed warning function, in order to safeguard your journeys with technology.

Since the launch of overseas marketing strategy in 2000, King Long has distributed bus products to more than 130 countries and regions worldwide, with the overseas ownership volume has exceeded 80,000 units. King Long is the Chinese bus brand with largest export scale and most extensive coverage. Especially, in August, 2003, 82 King Long city buses were exported to Malta, initiating the entry of Chinese bus brands into European market. For 15 years since entering European market, King Long continuously offers buses not only meet the requirements of laws and regulations, but also meet the users' needs with higher cost-performance, and laid a good market foundation. King Long wishes to work with more partners to continuously explore the European market and offer better environmental-friendly, higher quality, and more advanced made-in-China products for European users.

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