

PRESS RELEASE
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Irizar: A brand focused on integral products, technology and sustainability

Irizar, a world leader in the manufacture of buses and coaches, is attending the international Bus and Coach exhibition, Busworld 2015, with a stand of over 1,000 square metres which this year will become the stage for rolling out its future strategy and for the official presentation of the Irizar i8, a new state-of-the-art coach. A high end coach which is the sum of multiple technological solutions developed by the Irizar Group and offers detailed aesthetics arising from Irizar's experience and from its drive to innovate.

In addition to two units of this new model, the stand will also exhibit the Irizar i6 and the Group's 100% electric city bus, the Irizar i2e.

An Irizar i4 is on show at the main entrance to the exhibition site along with another novelty, the new Irizar i3le, the first low-entry integral bus which is presented, on this occasion, with a DAF Biodiesel engine aimed at the European intercity sector.

For the first time, all the coaches and buses exhibited at this exhibition are integral and are equipped with the latest technological advances developed by the Group as far as safety, efficiency, energy storage, charging, fleet management and entertainment are concerned.

With this vehicle, Irizar consolidates its position in the luxury coach-manufacturing world with an expression of the artistic and technological spirit of a brand, focused on spectacular designs, technology and sustainability. At the same time, it offers prestige to the new owners and exceptional comfort to the driver, courier and passengers, guaranteeing an unforgettable stimulating experience.

This exhibition enables Irizar to demonstrate its firm commitment to becoming the leading brand in electromobility and show the tremendous technological leap taken by the Group. In order to do so, there will be space dedicated to this subject.

It is also currently working on more traditional projects such as systems integration and firmly supports the Group in the new development of Irizar-brand integral and electric coaches of the future.

Some of the research projects currently being undertaken by Creatio, the Group's R&D Centre, include:

- Propulsion
- Electronics: Hardware and software



- Energy and V2V (vehicle to vehicle) and V2I (vehicle to infrastructure) communication strategies
- Electromobility:
 - An electric urban bus for cities
 - BRT (Bus Rapid Transit)
 - Electromobility systems and components: inverters, converters, DC/DC, Junction Box
 - Charge station at depot
 - Opportunity of charge station at terminal
 - Energy generation and storage systems
 - Electronic control units (ECU)
- ITS (intelligent transport solutions) systems and connected vehicle solutions.

Irizar i8:

The Irizar i8 is a luxury tourist vehicle for long journeys, regular lines and other special services, equipped with the most advanced technology on the market. It is the new flagship of the brand and the model that replaces the Irizar Pb, with strong improvements and the incorporation of cutting-edge technology.

Exterior design

Special attention has been paid to the design in order to ensure that the identity and character of the Irizar brand stand out in the Irizar i8. It is worth noting the pronounced line that flows along the entire side of the coach, which has more in common with the design of modern cars than conventional coaches,

The attractive V-shaped stainless steel trim stands out at the front, framed by new stylish, full-LED headlights. The rear is equally evocative. The aggressive lines are maintained, accentuated by a V-shaped emblem as a new element.

With this styling, the Irizar i8 becomes a powerful statement, transmitting trust, art and elegance.

Interior design

Travelling in the Irizar i8 is a unique experience. The interior of this vehicle reflects the cool drama generated by its sculptural exterior design.

The boldness of the design, thanks to the exquisite attention to even the smallest of details (22" high resolution screens, LED lighting in the roof and clearance lamps, capacitive switches...) delivers maximum comfort for all the occupants.



The new seats round off the renewed aesthetics of this Irizar i8. Although the coach's visual elegance cannot be ignored, its development has seen a focus on concepts such as ergonomics, comfort, functionality and adaptability.

The driver is our focus

The driver is our focus. The dashboard area is especially ergonomic and has been designed to deliver maximum satisfaction to the driver. The instruments and navigation screens have been strategically positioned for visibility, and all the controls are user-friendly, located in the perfect place to be operated with ease. Handling of the systems has been radically improved by means of the joystick control, rapid access buttons to menus and a colour touch-screen.

The modern functionality of the MMI, the central console with its simple, rapid access menu (cameras, GPS, media, telephone, climate...) that integrates all the electronic systems, stands out.

Technology of tomorrow

The technologies created by Irizar are aimed at resolving the challenges imposed by traffic conditions and those of the terrain and nature of modern roads. They are also aimed at providing a state of well-being and safety which is related the pleasure or enjoyment of the trip.

It is worth highlighting the interior and exterior full-LED lighting, the multiplexed architecture and CAN communication protocol that harmonises all the coach electronics, enabling diagnosis and data collection using the OBD connector, and provides the operator with intelligent systems. The AEB-LDW driving-aid systems composed of the touch-screen control and HMI console, from which the entertainment and comfort systems are managed, are also worth mentioning.

Safe, reliable and efficient

Ensuring as safe a journey as possible is a central tenet of the design of all IRIZAR vehicles. As with all the other models of the brand, the Irizar i8 complies with the R.66.02 safety regulation and has the most modern systems for active safety, to guarantee stability and reduce risks in unforeseen circumstances.

In many situations, the behaviour of other road users is unpredictable, so it is reassuring to know that the Irizar i8 structure has been designed to offer resistance to roll and head-on collision, optimising weight distribution.

Tested under the most demanding conditions, the Irizar i8 is a sturdy, lightweight, quiet and reliable coach. It has been subjected to extreme fatigue tests and reliability tests in one of the world's most prestigious institutes of applied research, with excellent results.



In addition to introducing the most advanced technologies in design, materials, components and production processes, the Irizar i8 has the ultimate in build quality, making it a completely safe and reliable coach.

Maximum profitability

IRIZAR has made great efforts to reduce consumption. The new generation of DAF EURO VI engines with reduced internal friction, modified fuel injection system and other refinements, very significantly reduce fuel consumption.

The software of the automated 12-speed gearboxes, aerodynamics with a low coefficient of air friction due to a narrower front with less air intake, the spare wheel cowling, reduced weight by using high-tensile steels, and the alloy wheels, all contribute to the aim of making the Irizar i8 the most efficient coach in the luxury sector when it comes to fuel consumption.

With the concept of maximum profitability in mind, we have worked on the repair and maintenance costs. Service intervals have been extended, and i8 can be driven for up to 100,000 kilometres without an oil change. We have also made great strides in reducing the cost of serviceable parts and coachwork.

And of course, the service network continues to expand and offers an Irizar-authorized workshop within range of every operator. Our priorities include ensuring that the Irizar i8 maintains a high residual value, so that our clients receive an attractive return on investment, and to minimise CO2 emissions. Deciding to buy the Irizar i8 is, without doubt, choosing to get great value.

Irizar i2e city bus

As far as city buses are concerned, this is the first year that Irizar will be appearing at Busworld with a 100% electric city bus, the Irizar i2e.

Irizar leads the electromobility market in cities and is positioned at the forefront of related new technologies with the aim of promoting the use of clean and accessible transport that is committed to the environment, well-being and health of people and creating better urban environments.

We are committed to reducing noise pollution, to achieving low fuel consumption which reduces costs and to zero-emission vehicles. This is a new strategic line for the future of the Irizar Group.

In addition to the city bus, which is already a reality, the Group is engaged in new and ambitious projects for new products as well as in the construction of a new facility dedicated to this new line of business which is expected to enter into operation by the end of 2016. The total investment amounts to 60 million euros. The new projects underway will complement the electromobility needs of cities including the main electromobility components and systems: vehicles, charging systems, energy storage systems, etc.



The Irizar i2e is the first city bus developed by the Irizar Group, a zero emissions electric vehicle that has been very well received on the market and has been named Bus of the Year in Spain. In addition to units operating in San Sebastian and Barcelona in Spain, there are already two operating in London, and the first units are being manufactured for various cities, including an order of 6 buses for Marseille.

For urban operators, the Irizar i2e represents the bus of the future for cities. It incorporates the latest technologies, making it a benchmark in sustainability, eco-efficiency and profitability for urban mobility, thereby responding to the current and future transport needs of modern cities. Each electric bus will reduce the annual emissions of CO2 by 318.28 tons during its service life and will save 33,000 litres of fuel. It also provides independence from the rising price of fossil fuels.

Latest Irizar Group news

Here at the Irizar Group, we continue to focus on research and development, on the incorporation of technology and on the improvement of integral products which will, once again, see a very significant increase. As an example, we have gone from manufacturing 120 integral coaches in 2014 to over 250 this year and this growth is forecast to continue over the coming year.

The Spanish headquarters, which will experience significant growth once again this year, continues to carry the weight of the Group's progression. This year, we will once again see growth in all the markets we serve from the parent plant.

It is also worth highlighting the leading role played by the Moroccan plant, working alongside the parent plant to support the manufacture of coaches for the European markets.

We expect the US market to be of great importance for our brand and, in a first phase, we are manufacturing coaches for that market at our plant in Spain.

We continue to manufacture electric city buses for several European cities and we are engaged in several major R&D programmes in electromobility that should give us great growth in this line of business over the coming years. The other group companies are also experiencing growth this year and diversifying their markets.

In summary, we are expecting to grow again this year and achieve an aggregated turnover in excess of 550 million euros, of which 83% will correspond to export markets.

As far as coach production is concerned, across the group we will produce 3,000 "Premium" coaches of which 1,200, 40% of the total, will be manufactured at the plant in Spain.

Technical specifications (see attached specifications)



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