

Technical Specifications

Irizar i6S

The most efficient coach
in Irizar's history



FOR A
BETTER
LIFE



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THE MOST EFFICIENT COACH IN IRIZAR’S HISTORY

The **Irizar i6S Efficient** is a next-generation coach designed to maximise operational efficiency, deliver an exceptional passenger experience and support a more sustainable future. With the new Irizar i6S **consumption and emissions have been reduced by up to 15%**, its weight has been reduced by 950 kg and its aerodynamic coefficient has been reduced by 30%.

In addition to the integral vehicle, the i6S Efficient is available in a range of chassis options.. It is compatible with diesel, biodiesel, HVO, gas, hydrogen and hybrid powertrains.

At Irizar, we aim to play a leading role in the sustainable mobility of the future. Our focus is on decarbonisation, the electrification of urban transport, and reducing vehicle energy consumption and emissions. We believe the future will be multi-technology, and we are ready for it.

Our new Efficient range focuses on improving efficiency and total cost of ownership (TCO) through weight reduction and improved aerodynamics. Power-on-demand technology also contributes to further reductions.

Smart technology extends component life and enables longer service intervals. Easy access to the engine compartment and key components also helps reduce repair and maintenance costs. We provide genuine Irizar spare parts, helping to maintain the safety and performance of your vehicles.



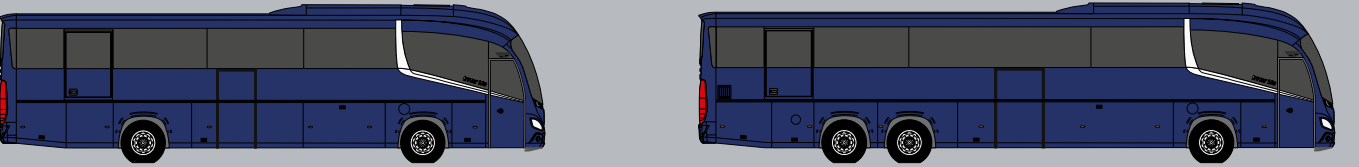
Consumption and emissions can be lowered by 15%, weight can be reduced up to 950 kg and the aerodynamic coefficient can be improved by 30%.

Lower fuel consumption results in significantly lower emissions. This improvement is achieved primarily through weight reduction and improved aerodynamics.

Every component was analysed to identify opportunities for weight reduction. The vehicle’s weight has also been redistributed to optimise weight distribution. High-strength steel and lightweight composite materials have been used in place of traditional structural materials.

Significant work has been undertaken to improve the vehicle’s aerodynamics. The vehicle’s exterior profile has been redesigned, including the front windscreen and rear body shape. To achieve a 30% improvement in the aerodynamic coefficient the vehicle’s exterior profile has been redesigned, including the front windscreen and rear body shape. To further improve efficiency and reduce fuel consumption, the rear-view mirrors can also be replaced with digital camera-based systems. The exterior redesign has also improved the use and distribution of space within the passenger cabin.

Configure the Irizar i6S to meet your requirements:



** The configurations may vary depending on the country and chassis manufacturer.*

	Dimensions
Length	10.8 (2 axles) to 14.9 m (3 axles)
Height	3.5 m - 3.7 m (3.7 m - 3.9 m including climate-control equipment)
Width	2,550 mm



DRIVER
FOCUSED DESIGN

New multi-function screen

The new generation features a redesigned HMI with a multifunction screen on the centre console. The new interface is intuitive and attractive, simplifying the driver experience.

The screen includes new functions such as on-board diagnostics, providing clearer information about the vehicle, as well as a navigation system designed for commercial vehicles. The main functions of the coach body can also be controlled via the new console.

The new version also features an integrated multimedia system for controlling the radio, video and HDMI or USB media, with smartphone connectivity for the driver.

Improved cockpit

The cockpit features a next-generation dashboard with a redesigned layout and an optional night-driving mode. It is designed to maximise driver comfort and ergonomics.



Greater efficiency and vision

The Irizar i6S Efficient can be fitted with a digital camera-based rear-view system in place of conventional rear-view mirrors to lower aerodynamic resistance and maximise driver visibility in all weather conditions, even at night or in the rain. The further-forward driving position also improves visibility and enhances driver comfort.

You can choose the option of heated rearview mirrors or to install the new cameras and screens, which automatically adjust brightness and provide the best visibility under all climate conditions.

DRIVER AND GUIDE	
Driver and guide seat trimmed in moquette	
Driver and guide seat trimmed in leather	optional
Camera mirror system	
Camera mirror recording system	optional
Driver's armrest	optional
Heated driver seat	optional
Multifunction leather steering wheel	optional
Third windscreen wiper	optional
Driver's seat microphone	
Guide microphone	
Wireless microphone for guide	optional
Flexible reading lamp for driver	optional
Flexible reading lamp for guide	optional
Driver and guide compartments in the luggage area	
Tyre pressure and temperature sensor	
Heated windscreen	optional
Heated mirrors	
Safe beneath driver's seat	
Dashboard refrigerator	
Driver and guide compartments	
Predictive cruise control	optional
USB socket in driver seat	
Alcolock	optional



AN EXCEPTIONAL
PASSENGER EXPERIENCE

The spacious passenger cabin, optimised layout and carefully designed seat ergonomics, combined with reduced noise and vibration levels, provide an exceptional travel experience.

Passenger space has been increased at the rear, while the wider aisle creates a more spacious and comfortable environment for passengers.



PASSENGER AREA	
Stainless steel handrail	
New I6 plus seats in moquette	
All age seat	optional
SitSafe seat	optional
Extra padded seats	optional
Adjustable headrest	optional
2 handrails at the rear	
Coat hook	optional
Seat back table	optional
Magazine nets	optional
Centre arm rest	optional
Footrest	optional
2-point seat belts	
3-point seat belts	optional
Individual air conditioning and LED lighting	
Luggage compartment covers	optional
Carpet in drivers area, aisle and rear	optional
Imitation wood floor	optional
Waste bins at the entrance and centre door	
Tables	optional
Coffee machine located over WC	optional
Centre/ Rear WC including smoke detector	optional
USB / 220V in every pair of seats	optional
Individual entertainment system	optional



EQUIPMENT

ELECTRICITY AND ELECTRONICS		
22-inch front monitor		optional
Multiplexed system		
Integrated Sat Nav (Tele Atlas maps)		optional
Rain sensor for automatic windscreen wipers		
Bluetooth		
Bosch Smart Series audio-visual system		
Irizar 2024 HMI audio system		optional
15-inch second and third monitor		optional
18.5-inch second and third monitor		optional
TV Tuner		optional
Centre camera		optional
Road-facing camera		optional
Digital clock		
Parking sensors		optional
Rear camera		
Interior and exterior LED lighting		
Outdoor LED perimeter lighting for night-time loading and unloading		optional
GPS integrated with the monitor system		optional
Front, side and rear destination signs		optional
Wi-Fi		optional
RMP lifts		optional
Electric key for opening + button on front door		optional
Remote control opening and alarm		optional
Contact sensors of covers		optional
Driver Fatigue Detection Systems		optional



HEATING AND VENTILATION SYSTEM		
Dual-zone air-conditioning system		
Heating system		
Artica climate control unit		optional
Programmable Pre-heater		optional
Convector in WC		optional
OTHERS		
Driver's bunk (includes smoke detector)		optional
Vacuum cleaner		optional
Galley near the centre door		optional
Front headlamps		
Stainless steel structure		optional
Double glazing		
Dark-tint privacy glazing		
Tinted side windows		optional
Air purifier		optional
Additional fuel tanks		optional
Trailer tow-bar preparation		optional
Aluminium wheels		
Alcoa Durabright aluminium wheels		optional
Ski-box mounting system		optional
Pneumatic luggage compartment covers		
Under floor KS8b lift		optional

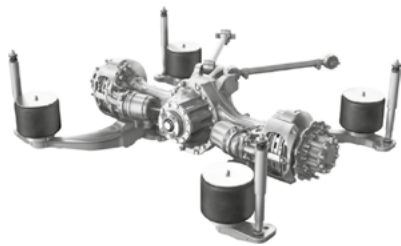
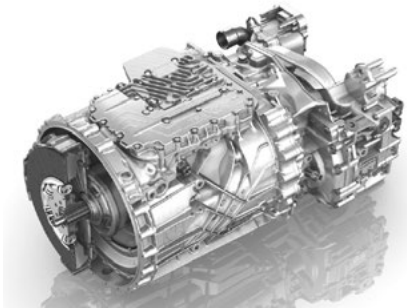


PROPULSION SYSTEMS

New generation Irizar integral chassis
Weight reduction of up to 200 kg and 5% of additional consumption

Compatible with diesel, biodiesel, HVO and hydrogen

	MX11 270	MX11 300	MX11 330	MX13 355	MX13 390
Cylinder configuration	6-cylinder inline	6-cylinder inline	6-cylinder inline	6-cylinder inline	6-cylinder inline
Displacement	10.8l	10.8l	10.8l	12.9l	12.9l
Valves	24V	24V	24V	24V	24V
Fuel system	Common Rail	Common Rail	Common Rail	Common Rail	Common Rail
	Variable-geometry turbocharger	Variable-geometry turbocharger	Variable-geometry turbocharger	Variable-geometry turbocharger	Variable-geometry turbocharger
Maximum power	270 kW	300 kW	330 kW	355 kW	390 kW
	367 Hp	408 Hp	449 Hp	483 Hp	530 Hp
	(1600 rpm)	(1600 rpm)	(1600 rpm)	(1600 rpm)	(1600 rpm)
Maximum torque	1950 Nm	2150 Nm	2350 Nm	2500 Nm	2700 Nm
	(900-1,125 rpm)	(900-1,125 rpm)	(900-1,125 rpm)	(900-1,125 rpm)	(900-1,125 rpm)
Emissions standard	EURO 6-E	EURO 6-E	EURO 6-E	EURO 6-E	EURO 6-E



Six-speed automatic transmission with torque converter.

Capable of transmitting torques of up to 2,800 Nm.

Integrated Power Intarder with three braking stages.

Advanced electronic control software for optimised fuel consumption

Fully automated 12-speed manual transmission.

Capable of transmitting torques of up to 2,800 Nm.

Integrated Power Intarder with three braking stages.

Advanced electronic control software for optimised fuel consumption.

RL82EC front axle and A133 rear axle. For three-axle configurations, an RL82EC third steering axle is fitted. Independent front and third axle suspension

Electronically-controlled air suspension (ECAS) to achieve optimum stability and comfort

Braking system equipped with ABS, ASR, ESC and BFD, electronically controlled by EBS.



LONG DISTANCE,
ZERO EMISSIONS

Second-generation FCEV

A zero-emission powertrain designed for long-distance travel, offering performance comparable to the rest of the Irizar range.

Dimensions	
Length	From 12.2 m (2 axles) to 14.9 m (3 axles)
Height	3.5 m (Total height with climate control equipment and H ₂ tanks 3,99 m)
Width	2,550 mm
Key features	
Electric engine	380 kW 2,460 Nm
Transmission	3 gears (10,0 7,92 3,25)
Fuel Cell	190 kW
HV Battery	60 kWh - Irizar Group Battery
H ₂ storage	From 46 kg to 84 kg - 350 / 700 bar
Range	Up to 1,600 km
Recharge time	12 minutes
Luggage compartment capacity	Up to 9,85 m³
Inverters	Silicon Carbide



380 kW electric motor with three integrated speeds and continuous torque delivery.

Integrated inverters.

Capable of delivering torque of up to 2,460 Nm and reaching 6,500 rpm.

A fuel cell that generates electricity through a reverse-electrolysis process using hydrogen.

Rated power of 190 kW at BoL.

Cold start down to -30°C.

Up to 30,000 hours' service life.

Type IV tanks weighing between 46 and 84 kg depending on the vehicle variant.

Options ranging from 350 bar to 700 bar.

Recharges in as little as 12 minutes.



Let’s talk about cybersecurity

We work continuously to stay ahead of the evolving cybersecurity challenges facing our vehicles. We comply with the R155 and R156 European regulations for cybersecurity management systems and vehicle software updates. This helps ensure that systems operate as intended while mitigating emerging security risks.

We are firmly committed to protecting the confidentiality and integrity of information.

+ Front collision warning

Warns the driver if they are travelling too close to the vehicle ahead.

+ Safe-distance monitoring

Safety distance monitoring warns the driver if they are driving at an unsafe distance from the previous vehicle.

+ Pedestrian collision warning

Daytime warning with visual alerts of an impending collision with a cyclist or pedestrian.

LEADING THE WAY IN SAFETY

We meet the highest safety standards under the latest GSR2 regulatory framework, integrating advanced technologies such as cameras and radar to help protect you and your passengers.

MOIS

System that detects the presence of pedestrians and cyclists in the vehicle’s front blind spot and alerts the driver.

BSIS

System that detects other vehicles beside and behind the coach on the nearside of the coach.

DDAW

Driver fatigue detection system

ADDW

Driver distraction detection system

LDWS

Lane departure warning system.

ReIS

Camera and sensor technology that detects objects or people behind the vehicle when reversing.

TPMS

System for monitoring tyre pressure and temperature.

ISA

Uses camera-based speed-sign recognition and GPS-linked speed-limit data to alert the driver to the current speed limit and warn when it is exceeded.

AEBS

Advanced emergency braking system that helps minimize the risk of a collision or limit its consequences.

Alcohol Interlock Installation Facilitation

Alcohol start-up interlock.

Emergency Braking Signal

System for activating the emergency lights when emergency braking is detected

Frontal impact protection system ECE - R29/FIP

Reinforced frontal impact protection system. It provides additional protection for driver - guide and passengers.

Additional safety systems

- + EBS (ABS, ASR, ESC, BFD)
- + AHBC
- + ECAS
- + ACC

ALWAYS BY YOUR SIDE OUR SERVICES

Vehicle reliability and availability

Our coaches undergo rigorous reliability testing as part of the design process.They are currently operating across five continents in extreme conditions.

They use robust, reliable and proven technology and components to reduce down-time and increase availability and use.

They are also designed to facilitate maintenance and diagnostics.



Personalised support and advice.
Integral vehicle



Turnkey projects and services that meet operator needs.



Repair and maintenance contracts.

We provide a complete range of services that makes it possible to keep the coaches in optimal condition, improve performance, minimise emissions and lower operating costs.

- Extensive service network and a team of experienced Field Service Engineers.

- Training programmes designed to maintain the highest standards of safety, repair and maintenance.

- iService platform, including catalogue, e-shop, Help Desk and order tracking, for service management. Information about the repair and maintenance status

- 24/7, 365 days a year. Integral vehicle

- Extended warranty options

- Fast access to Genuine Irizar spare parts at competitive prices.

- Fleet management solutions tailored to each customer's specific requirements. This enables comprehensive monitoring of operating costs and driving efficiency, resulting in constant improvement in safety, performance and profitability.

- The Operational data is then used to analyse, predict and schedule vehicle maintenance and ensure maximum uptime. The collected operational data is analysed to predict and schedule vehicle maintenance and ensure maximum uptime.

- Eco-driving training to help drivers operate more efficiently and safely, providing significant benefits in terms of increased activity time, improved safety and reduced operating costs.

THE GOAL ENJOY THE TRIP



