

Technical Specifications

Irizar i6S

The most efficient coach in
the history of Irizar





FOR A
BETTER
LIFE

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THE MOST EFFICIENT COACH IN THE HISTORY OF IRIZAR

The Irizar i6S Efficient is a latest generation vehicle designed to give operators maximum efficiency and the best experience for passengers and that is committed to sustainability. With the new Irizar i6S consumption and emissions have been reduced by up to 13%, its weight has been reduced by 950 kg and its aerodynamic coefficient has been reduced by 30%.

In addition to the integral vehicle, it's available in combination with all the chassis available on the market. Diesel, biodiesel, HVO and gas powered engines can be integrated.



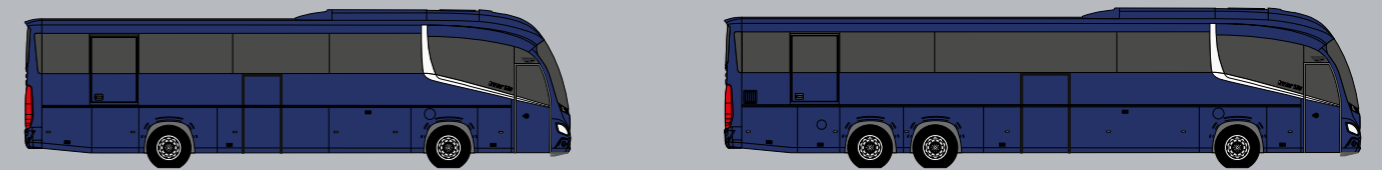
A reduction in consumption and emissions up to 13%, a weight reduction up to 950 kg and an improvement in the aerodynamic coefficient by 30%

The lower consumption means it has significantly lower emissions and this improvement is achieved, primarily, through reducing the weight and aerodynamic coefficient.

The weight of every component was analysed and reduced. And the weight of the vehicle has been redistributed with the goal of improving weight distribution. High strength steel and lighter composite materials were used instead of traditional structural materials.

A major aerodynamic improvement process has been carried out on the vehicle. To achieve a 30% improvement in the aerodynamic coefficient, the exterior silhouette of the vehicle has been redesigned, including for example the radii of the front window, and the shape of the rear end. In order to further improve efficiency and fuel economy, the option of replacing the rear-view mirrors with digital vision cameras is offered. With the redesign of the exterior, an improvement in the vehicle's interior space layout has also been achieved.

Configure the Irizar i6S to your needs:



** Configurations may vary depending on the country and chassis manufacturer.*

	Dimensions
Length	From 10.8 (2 axles) to 14.9 m (3 axles)
Height	3.5 m - 3.7 m (Total height with climate control equipment 3.7 m - 3.9 m)
Width	2550 mm



DRIVER FOCUSED

New Cockpit

The new generation of vehicles has an improved cockpit that has a new steering wheel, updated keys and a new version of the dashboard with an updated design and the option to choose night driving mode.

The Irizar i6S Efficient offers the option of replacing the rear-view mirrors with digital vision cameras to reduce aerodynamic drag and maximise the driver's visibility in all weather conditions. A more forward driving position also contributes to better visibility and driving comfort.

The instruments and navigation screens have been laid out to facilitate their visibility and intuitive use to the maximum. The HMI, multi-functional screen located on the central console includes the cameras, GPS, audio-video, media, telephone, climate control and vehicle diagnostics.

All of that is built in to a spacious and adaptable cockpit with an exceptional field of view. You can choose the option of heated rearview mirrors or to install the new cameras and screens, which provide the best visibility under all climate conditions.



DRIVER AND GUIDE

Carpet fabric driver and guide seat	
Black leather driver and guide seat	optional
Camera mirror system	optional
Driver's seat 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
Driver flex-lamp	optional
Guide flex-lamp	SEP
Compartment for the driver and guide on the baggage trays	
Tire pressure and temperature sensor	
Heated windscreen	optional
Heated mirror	
Safe for driver	
Refrigerator in dashboard	
Storage on top of refrigerator and next to guide	



AND A UNIQUE EXPERIENCE FOR PASSENGERS

The spaciousness and optimal layout of the passenger cabin, the carefully designed ergonomics of the seats, the reduced levels of noise emission and vibrations mean passengers can be given the best travel experience.

The passenger space has also been enlarged at the back and in the aisle width to give passengers exceptional comfort and guarantee an unforgettable experience.

PASSENGER AREA	
Stainless steel handrail	
i6 plus seats with carpet	SEP
i6 plus seats with synthetic leather headrests	SEP
i6 plus seats with leather inserts	optional
Extra padded seats	SEP
2 handrails at the rear	
Clothing rack	optional
Small table	optional
Magazine rack	optional
Central arm rest	optional
Foot rest	optional
2-point safety belt	
3-point safety belt	optional
Individual air conditioning and LED lighting	
Luggage compartment covers	optional
Carpeting in the aisle, driver's area and foot rest	optional
Imitation wood floor	
Waste bin at entrance and central door	
WC in central footboard / rear WC on floor (includes smoke detector)	optional
USB / 220V in every pair of seats	optional
Individual entertainment system	optional



EQUIPMENT

ELECTRICITY AND ELECTRONICS	
19" or 22" front monitor	optional
Multiplexed system	
HMI that integrates: climate, audio, video, communication media, cameras, Sat Nav, bluetooth, settings, etc.	
Integrated Sat Nav (Tele Atlas maps)	
Rain sensor for automatic windscreen wipers	
Bluetooth	
Audio player	
15" second and third monitor	optional
18.5" second and third monitor	optional
19" folding monitor	optional
TV Tuner	optional
Central camera	
Roadway camera	optional
Digital clock	
Parking sensors	optional
Rear camera	optional
Inside and outside LED lighting	
GPS connected to screens	optional
Front, side and rear destination signs	optional
Wi-Fi	optional
PRM elevators	
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	
Air conditioning: Dual zone air conditioning unit	
Heating system	
Artica climate control unit	SEP
Programmable Pre-heater	SEP
Convactor in WC	SEP
OTHERS	
Driver's bed (includes smoke detector)	optional
Vacuum cleaner	optional
Galley close to the central entrance	optional
Front headlamps	
Stainless steel structure	optional
Double glazing	SEP
Extra-stained side windows	
Tinted side windows	optional
Fire detection system in the engine area	optional
Fire extinguishing system in the engine area	optional
Air purifier	optional
Additional fuel tanks	optional
Pre-fitting for trailer hook	optional
Aluminium wheels	
Alcoa Durabright aluminium wheels	optional
Ski rack attachment system	optional
Pneumatic luggage compartment covers	
Under floor KS8b lift	optional



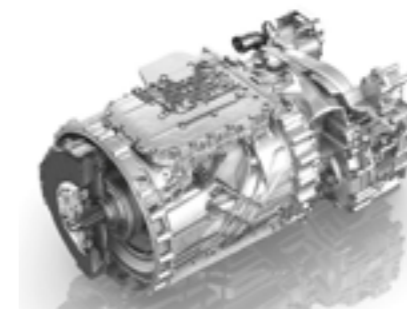
PROPULSION SYSTEMS

New generation of Irizar integral chassis

Lighter, more comfortable and up to 5% reduction in fuel consumption.

Compatible with Diesel, Biodiesel and HVO (Hydrogen, coming soon)

	MX11 270	MX11 300	MX11 330	MX13 355	MX13 390
Cylinder layout	6 in-line cylinders	6 in-line cylinders	6 in-line cylinders	6 in-line cylinders	6 in-line cylinders
Cylinder capacity	10.8 l	10.8 l	10.8 l	12.9 l	12.9 l
Valves	24 V	24 V	24 V	24 V	24 V
Power supply	Common-Rail	Common-Rail	Common-Rail	Common-Rail	Common-Rail
	Variable geometry turbo	Variable geometry turbo	Variable geometry turbo	Variable geometry turbo	Variable geometry turbo
Maximum power	270 Kw	300 Kw	330 Kw	355 Kw	390 Kw
	362 hp	402 hp	443 hp	476 hp	523 hp
	(1,600 rpm)	(1,600 rpm)	(1,600 rpm)	(1,600 rpm)	(1,600 rpm)
Maximum torque	1,950 Nm	2,150 Nm	2,350 Nm	2,500 Nm	2,700 Nm
	(900-1,125 rpm)	(900-1,125 rpm)	(900-1,125 rpm)	(900-1,125 rpm)	(900-1,125 rpm)
Emissions compliance	EURO 6-E	EURO 6-E	EURO 6-E	EURO 6-E	EURO 6-E



ZF Ecolife Coachline

Automatic six gear change with torque converter

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

Built-in ZF retarder with three braking points

Electronic with advanced software for optimal fuel consumption.

ZF TraXon 2

Fully automated 12-speed manual transmission.

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

Inbuilt ZF Power Intarder with 3 brake points.

Electronics with advanced software for optimal fuel consumption.

ZF Axles

RL82EC front axle and A133 rear axle. In case of three axles, RL82EC third steering axle. Independent front and third-axle suspension as standard.

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

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



LOWER CONSUMPTION AND EMISSIONS

At Irizar we want to be a key actor in the sustainable mobility of the future. To achieve that, we're focusing all our efforts on decarbonisation, electrifying cities and reducing the consumption and emissions of our vehicles. We're sure the future will be multi-technological and we're ready for it.

Our new Efficient range focuses on improving efficiency and TCO, based on weight reduction and improved aerodynamics. In addition, power on demand technology also contributes to this reduction.

Minimum R&M cost

Thanks to smart technology we have increased the life of the components and we have extended the service intervals as much as possible. Easy access to the engine compartment and components also reduces repair and maintenance costs.

We provide original Irizar spares that keep the same level of quality, so your vehicles are still as safe as ever. Only with an optimum selection of parts can you keep the same levels of quality and performance of the engine and fuel consumption. And, all of that comes with fast delivery times, total availability and the Irizar guarantee.



Let's talk about cybersecurity

We work day in day out to keep ahead of the cybersecurity challenges of our vehicles. We comply with the R155 and R156 European regulations for cybersecurity management systems and vehicle software updates. We can thus guarantee that the systems work as expected, and we can mitigate the security risks that arise.

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

+ Front collision warning

Warns of an impending forward collision, giving the driver enough time to react.

+ Safety 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 in the new GSR framework by integrating advanced components, cameras and radar etc. for the safety of you and your passengers.



EBS

Electronic braking control system equipped with:

ABS: System that prevents the wheels from locking up during braking to keep the tyres from skidding.

ASR: Traction control system to prevent the drive wheels from losing traction.

ESC: Electronic stability control system that acts by braking the wheels individually or together in situations where the vehicle has lost stability or is at risk of tipping.

BFD: Brakeforce distribution system that determines how much force to apply to each wheel to achieve the desired deceleration.



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 side opposite the driver.



ReIS

Camera and sensor technology that shows the driver if there are objects or people behind the vehicle when it's backing up.



TPMS

System for monitoring tyre pressure and temperature.



LDWS

Lane departure warning system.



ISA

System that uses a speed limit sign recognition camera and speed limit data linked to the GPS to notify the driver about the current speed limit and warn them if they are speeding.



AEBS

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



DDAW

Driver fatigue detection system



AHBC

Smart high beam control

Automatic system for switching from full beam to dipped beam in order not to dazzle other drivers.



ECAS

Electronically-controlled air suspension system to ensure vehicle stability and passenger comfort. "Kneeling" function and manual height adjustable suspension as standard.

ALWAYS BY YOUR SIDE OUR SERVICES

Guarantee of vehicle reliability and availability

Our coaches undergo rigorous reliability tests before they are marketed. They are currently operating on 5 continents in extreme conditions.

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

They are also designed to facilitate maintenance and make diagnostic capability.



Close, customised attention and advice.
Integral vehicle



Turnkey projects and services that meet customer 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.

- Wide service network and mobile units with trusted technicians.

- Training courses to ensure that their safety and repair and maintenance performance is always of the highest quality.

- iService platform (catalogue, e-shop Help Desk, order tracking ...) for service management.

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

- Warranty period extension

- Immediate availability of quality original spare parts at very competitive prices.

- Fleet manager with advanced technology that integrates the iPanel into every client's specific processes. It enables comprehensive monitoring of cost and driving efficiency resulting in constant improvements in safety, performance and profitability.

- Comprehensive electronic management and monitoring solutions for predictive maintenance. The collected operational data is analysed to predict and schedule vehicle maintenance and ensure maximum uptime.

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

THE GOAL ENJOY THE TRIP





FOR A BETTER LIFE