

Irizar i4

Technical specifications

Irizar i4

integral



Irizar

lighting the road



Irizar Virtual Cockpit

Virtual clock box that offers innovative technological and quality functions. The high resolution 12.32" colour display has a dynamic and intuitive design and displays comprehensive information in flexible form that can be adapted to any needs arising at any time.

The Irizar virtual cockpit offers all the necessary information in an attractive colour design, with fixed elements on the screen combined with dynamic elements that are shown in the central window, depending on the information requested by the driver at the time. It is controlled using the multifunction steering wheel plus - the steering wheel switches are used to navigate the system menus.

The latest generation of buses and coaches

Smarter and more efficient

Total Operating Costs

Thanks to Irizar's smart technology, Total Operating Costs have been reduced by more than 6%.

Eco mode

Enables the driver to drive more economically, reducing fuel consumption due to smoother driving.

EcoRoll mode

Enables the vehicle to roll "freely" on downhill slopes when cruise control is activated. The improvement of this function results in greater fuel savings.

6% fuel reduction

Greater efficiency and optimum performance of the engine and all its components achieving a reduction in fuel consumption of up to 6%.

More sustainable

Integration of the most advanced emission reduction technology in advance of the new European regulations.

Repair and maintenance

Improved engine compartment access to reduce repair and maintenance costs.

Service network

Close and personal customer service, with a fully guaranteed complete repair, tune-up and maintenance service 24 hours a day and 365 days a year.

Power on demand

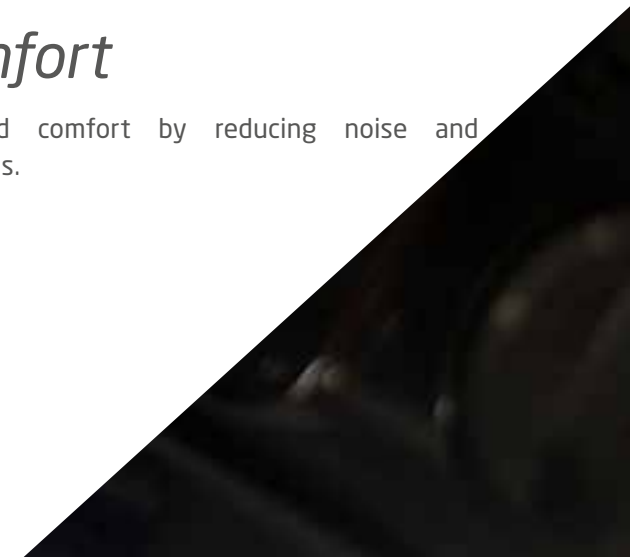
Thanks to our power on demand technology, consumption has been further reduced, component life increased and maintenance intervals lengthened as much as possible.

Passenger capacity

Improved weight distribution and increased passenger capacity and manoeuvrability. Overall weight has been reduced by more than 300 kilos.

Comfort

Increased comfort by reducing noise and vibrations.



EBS

Electronic brake control system equipped with ABS, ASR, ESC, BFD...

ABS

System that prevents wheel lock during braking in order to prevent the tyres from skidding on the road, shortening braking distances and offering greater control over the direction of the vehicle.

AEBS

Autonomous emergency braking system that prevents collision with moving vehicles ahead or minimises the impact of the collision in the case of stationary vehicles ahead.

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.

ACC

System that adjusts the vehicle's cruise control speed in order to maintain a predefined distance, which can be selected by the driver, from the vehicle in front.

BFD

Braking distribution control system that determines how much force is applied to each wheel in order to achieve the desired deceleration (under any vehicle load situation) without losing stability and attempting to optimise the even wear of the brake pads of the different axles.

LDWS

System that warns the driver when the vehicle begins an unintentional lane departure.

ASR

Traction control system to prevent the loss of wheel grip on slippery ground.

ECAS

Electronically-controlled air suspension system to ensure vehicle stability and passenger comfort. "Kneeling" function and manual height adjustable suspension as standard. Third-axle suspension control based on weight distribution to the drive shaft in order to provide optimal traction at all times.

TPMS

Tyre pressure and temperature monitoring system.



Forward collision warning

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

Connected vehicle

Up to 3% fuel savings, thanks to maximum efficiency in the advance management of road conditions. Using GPS technology, it uses detailed map information and predicts the road conditions that are about to be encountered, adjusting the speed set in the cruise control.

Road sign and speed limit recognition

System that recognises road signs and speed limit signs, as well as additional signs. It reads the sign and notifies the driver if they are going over the speed limit indicated on the sign.

Intelligent full beam control

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

Safety distance monitoring

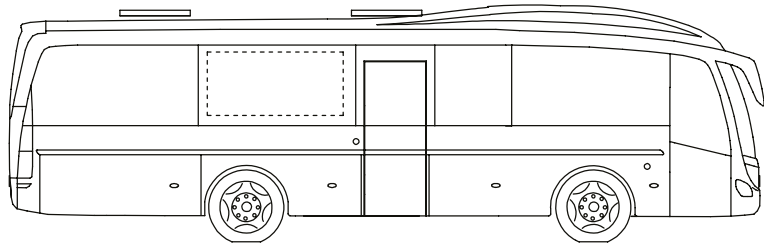
Safety distance monitoring warns the driver if they are driving at an unsafe distance from the previous vehicle.

Pedestrian collision warning

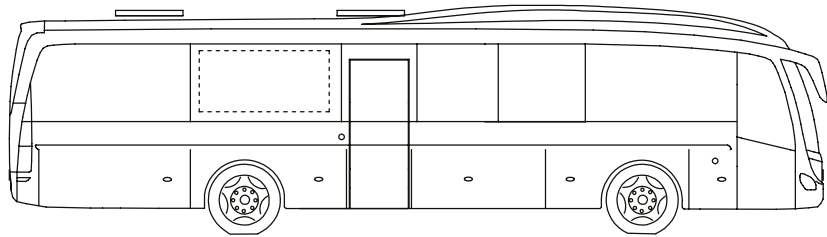
Daytime warning with visual alerts of an impending collision with a cyclist or pedestrian.

** Optional*

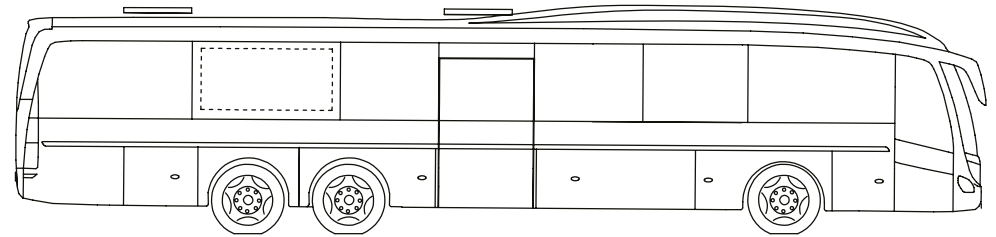
Available configurations



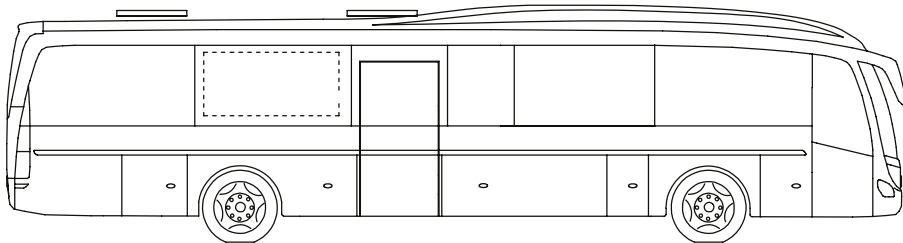
10.8m



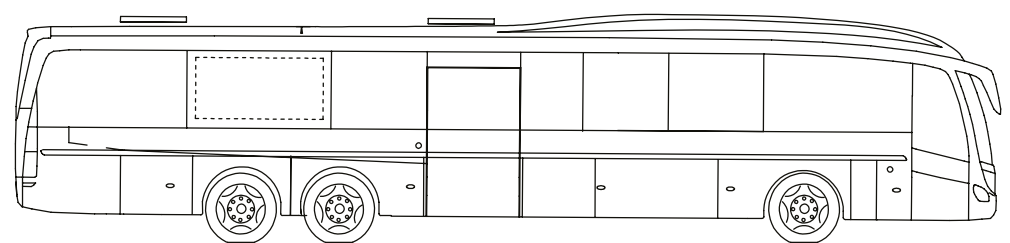
12.2m



14m



12.9m



15m

** Configurations may vary depending on the selected country.*

General information (integral vehicle)

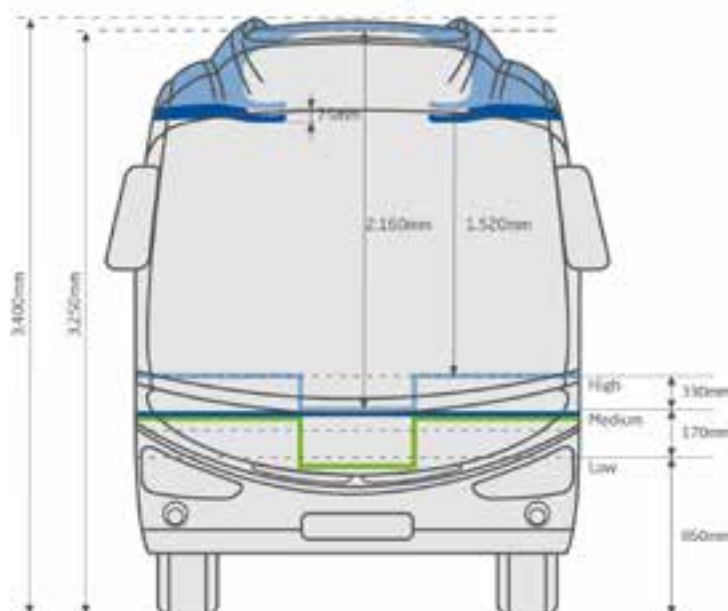
	10.8m	12.2m	12.9m	15m
Length	10,780mm	12,200mm	12,920mm	14,990mm
Height	3,405mm	3,405mm	3,405mm	3,405mm
Width	2,550mm	2,550mm	2,550mm	2,550mm
Front overhang	2,090mm	2,690mm	2,690mm	2,690mm
Rear overhang	3,410mm	3,410mm	3,410mm	3,510mm
Distance between axles (front-drive)	5,280mm	6,100mm	6,820mm	7,290mm
Distance between axles (drive-third steering axle)	-	-	-	1,500mm
Front door width	900mm	900mm	900mm	900mm
Width central simple door	900mm	900mm	900mm	900mm
Width central wide door	1,150mm	1,150mm	1,150mm	1,150mm
Width central double door	-	1,410mm	1,410mm	1,410mm
Free-standing aisle height (L version)	2,160mm	2,160mm	2,160mm	2,160mm
Free-standing aisle height (M version)	1,990mm	1,990mm	1,990mm	1,990mm
Free-standing aisle height (H version)	1,990mm	1,990mm	1,990mm	1,990mm
Turning circle	21,174mm	23,200mm	23,898mm	24,680mm
Luggage compartment volume (approx.)	2.4m ³	2.5m ³ - 6.1m ³	3.2m ³ - 7.4m ³	4.5m ³ - 11m ³

* The information shown above may vary depending on the selected county, powertrain and configuration.

Powertrain information (integral design vehicle)

	MX11 251	MX11 270	MX11 300
Cylinder arrangement	6 cylinder In-line	6 cylinder In-line	6 cylinder In-line
Piston displacement	10.8 l.	10.8 l.	10.8 l.
Valves	24V	24V	24V
Feed	Common-Rail	Common-Rail	Common-Rail
	Variable-geometry turbocharger	Variable-geometry turbocharger	Variable-geometry turbocharger
Maximum power	251 kW	270 kW	300 kW
	341 hp	367 hp	408 hp
	(1,675 rpm)	(1,600 rpm)	(1,600 rpm)
Maximum torque (Nm)	1.500 Nm	1.900 Nm	2.100 Nm
	(900-1,400 rpm)	(900-1,125 rpm)	(900-1,125 rpm)
Emissions compliance	EURO 6-D	EURO 6-D	EURO 6-D

i4 versions: H, M y L

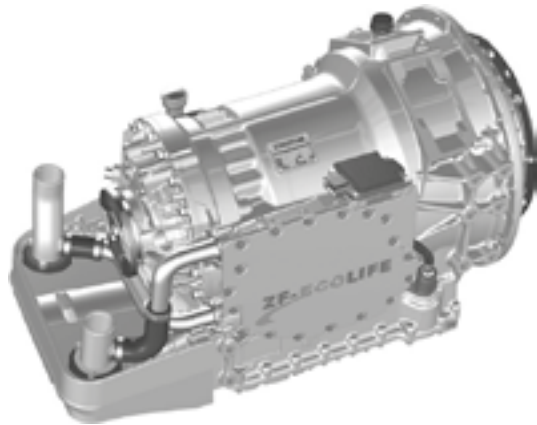


Central door options

Simple central door, width = 900mm
PRM lift not possible

Wide central door, width = 1,100mm
PRM lift possible

Double central door, width = 1,400mm
PRM lift possible



ZF Ecolife

6-speed automatic transmission with torque converter.

Capable of transmitting torques of up to 2,300 Nm.

Inbuilt ZF Power Retarder with 3 brake points.

Electronic with advanced software for optimal fuel consumption.

**Available for MX11 engine.*



Traxon

Fully automated 12-speed manual transmission.

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

Electronic with advanced software for optimal fuel consumption.



ZF Axles

RL82EC front axle and A132 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. Disc brakes on all wheels.

The Irizar i4 hybrid

First parallel hybrid class II coach

The Irizar i4 hybrid, available in versions from 10.7 m up to 13 m with two axles, is a commuter and suburban coach for short-distance or school transport. The 13-metre version with a PRM platform has 53 seats if the model has a double central passenger door. If a wide single central door is used instead, the seating capacity is 55. In both cases, the vehicle has a PRM space.

It also has a luggage compartment that is large enough to provide adequate service on commuter lines.

The Irizar i4 hybrid therefore becomes the first class II commuter vehicle with hybrid technology for short and medium-distance lines: H, M and L high floor with luggage compartment.

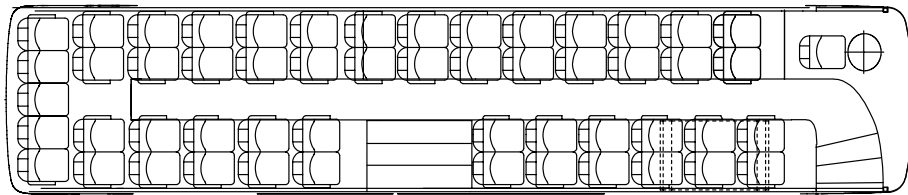


Irizar i4 hybrid technical data and powertrain

Length	From 10,7m to 13,2m
Height	3,40m (3,20m + AC)
Width	2,55m
Distance between axles	From 5,28m to 6,82m (2 ejes)
Front overhang	2,69m
Rear overhang	3,41m
Front step height	250mm (320mm without kneeling)
Rear step height	270mm (340mm without kneeling)
Aisle height	860mm (L version) -1190mm (M and H versions)
Doors	Single front and double central (other configurations available)
Combustion engine	Cummins ISB6.7L OBD C (HVO) (300 cv /1166 Nm hybrid version)
Electric Motor + Inverter	Edrive (65 kW)
Transmission	Eaton 6-speed robotised transmission
Clutch	Eaton, dry disc
Batteries	5.5 kWh storage capacity (346 V /16 Ah) Lithium ion technology
Radiators	Nissens system (Nissens radiators/EMP electric fans)
Front axle	ZF RL82 (2+2 shock absorbers and air springs)
Rear axle	ZF A132 (4+4 shock absorbers and air springs)
Brakes	Wabco pneumatic system Knorr-Bremse ventilated discs
Electronic Brake System Control	EBS3
Suspension	Koni Shock Absorbers + Vibracoustic Air Springs
Electronic Suspension Control	ECAS IV
Wheels and tyres	8.25x22.5 Alcoa aluminium wheels 295/80 R22.5 tyres

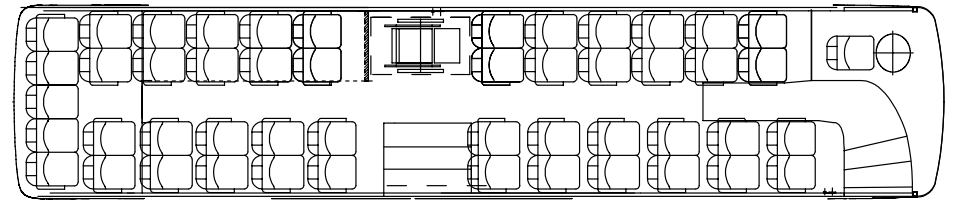
Seat distribution

i4L



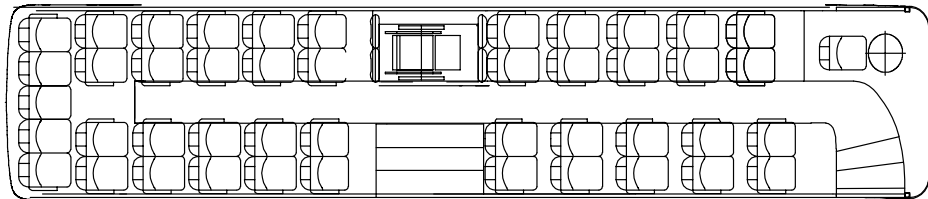
Length	Door	PRM	No. of seats
12.2m	DCD	-	53+1
12.2m	SCD	-	55+1

i4H



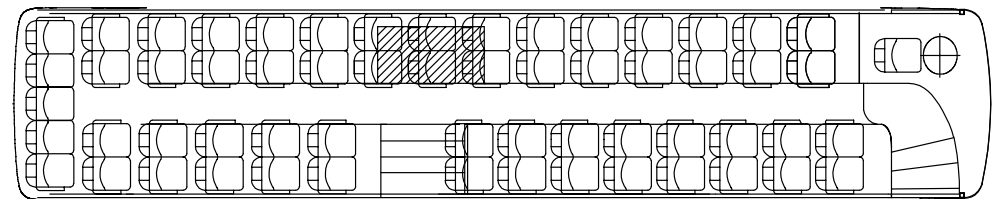
Length	Door	PRM	No. of seats
12.2m	DCD	1	49+1PRM+1
12.2m	WCD	1	49+1PRM+1

i4L



Length	Door	PRM	No. of seats
12.2m	DCD	1	45+1PRM+1
12.2m	DCD	-	45+4+1

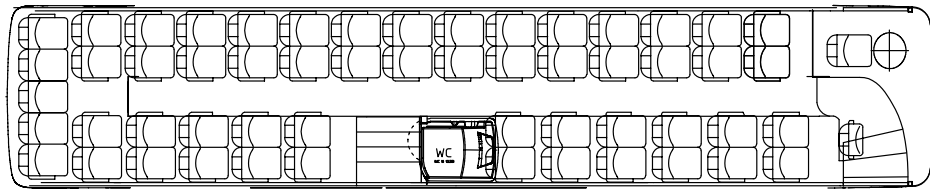
i4H



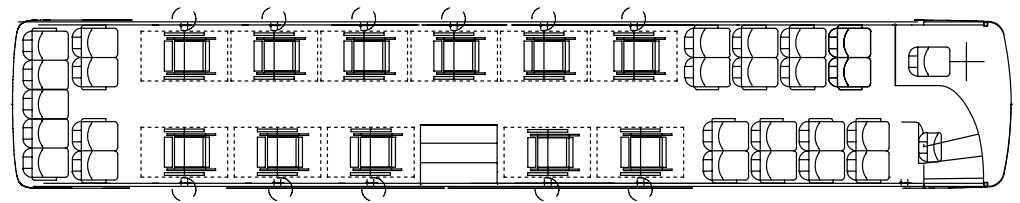
Length	Door	PRM	No. of seats
12.9m	PCS	-	59+1
12.9m	PCD	1	53+1PRM+1

Check specific distribution options. Some of the distribution options shown may not be available depending on the selected powertrain.

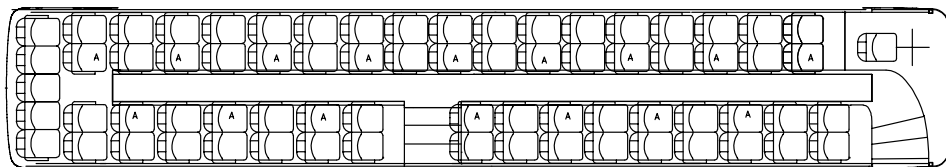
SCD: Simple central door / WCD: Wide central door / DCD: Double central door.

i4H

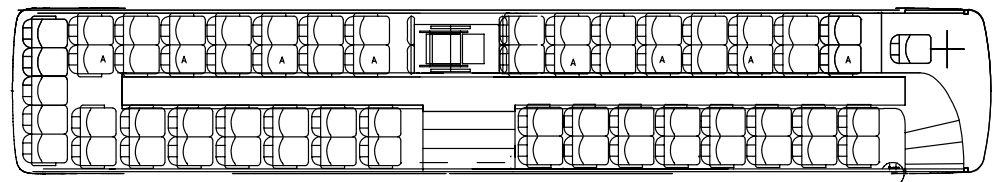
Length	Door	PRM	No. of seats
12.9m	SCD	-	55+1 WC+1

i4M

Length	Door	PRM	No. of seats
15m	WCD	11	25+11PRM+1
15	WCD	-	69+1

i4H

Length	Door	PRM	No. of seats
15m	SCD	-	71+1

i4L

Length	Door	PRM	No. of seats
15m	DCD	1	65+1PRM+1
15m	DCD	-	65+4+1

*Check specific distribution options. Some of the distribution options shown may not be available depending on the selected powertrain.
SCD: Simple central door / WCD: Wide central door / DCD: Double central door.*

Equipment

	H	M	L
PASSENGER AREA			
i4 seats in moquette fabric	•	•	•
i4 seats with synthetic leather headrests	•	•	•
i4 seats with leather headrest	o	o	o
2-point safety belts on seats	•	•	•
3-point safety belts on seats	o	o	o
Tecam seat fixing system	o	o	o
Reclinable seats	•	•	o
Folding armrest, magazine nets, footrest, table	o	o	o
Lateral handles	o	o	o
Podester in front of central step	o	-	o
Simple central door (900mm)	•	•	o

	H	M	L
PASSENGER AREA			
Wide central door (1,100mm)	o	o	•
Double central door (1,400mm)	o	o	o
PRM lift	o	o	o
Folding seats in PRM zone	o	o	o
Rails and anchorage for PRM passengers	o	o	o
Luggage-racks	•	•	o
Drivers locker	o	o	o
Individual reading light and air	o	o	o
Carpet aisle, drivers area and entrance	o	o	o
Curtains	•	•	o
Aisle floor with metallic particles	o	o	•
Carpet	o	o	o
Central sunken toilet	o	-	-

ACS= According to Country Standard

• Standard equipment

o Optional equipment

	H	M	L
ELECTRICITY AND ELECTRONICS			
Actia DVD equipment and Actia front screen 22"	o	o	o
Bosch DVD equipment and Actia front screen 22"	o	o	o
Bosch DVD equipment and Bosch front screen 19"	o	o	o
Actia Audio equipment	•	•	•
Bosch Classic line audio equipment	o	o	o
Bosch Professional line audio equipment	o	o	o
15" extra monitors	o	o	o
GPS navigation	o	o	o
Camera over central stepwell	o	o	o
Digital Clock	o	o	o
Stop requested sign	o	o	o
Parking sensors	o	o	o
Rear view camera	o	o	o
Front / side and rear destination signs	o	o	o
Wi-Fi Internet connection	o	o	o
220V Plug / USB sockets	o	o	o
Remote control opening and alarm	o	o	o

	H	M	L
HEATING AND VENTILATION SYSTEM / HVAC			
Air conditioning: Bizonal climate control system	•	•	•
Heating system	•	•	•
Artic Heating / Isolation system	ACS	ACS	ACS
Programmable Pre-heater	ACS	ACS	ACS
Heated battery zone	ACS	ACS	ACS
Air purifier	o	o	o
DRIVER AND GUIDE			
Moquette Isri 6860/875NTS2 driver seat	•	•	•
Leather driver seat	o	o	o
Driver seat left / right armrest	o	o	o
Swivelling driver seat	o	o	o
Heated driver seat	o	o	o
Guide seat	o	-	-
12V charger for driver	•	•	•
Multifunction steering wheel	•	•	•
Multifunction leather steering wheel	o	o	o
Electric windscreen blinds	o	o	o
Base for ticket machine	o	o	o
Driver's safe	•	•	•
Rain sensor	o	o	o

ACS= According to Country Standard

• Standard equipment

o Optional equipment

Equipment

	H	M	L
OTHERS			
Stainless steel structure	o	o	o
Bixenon front headlamps	o	o	o
Pneumatic luggage lockers	o	-	-
Wire-heated windscreen	o	o	o
Double glazed side windows	•	•	•
Extra-tinted side windows	ACS	ACS	ACS
Fire detection system in engine compartment	•	•	•
Fire suppression system in engine compartment	o	o	o
Towing hook	o	o	o
Alcoa aluminium rim	•	•	•
Alcoa Durabright aluminium rim (Black tag)	o	o	o
Fridge in dashboard	o	o	o
Ski box fixing system	o	o	o

ACS= According to Country Standard

• Standard equipment

o Optional equipment



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