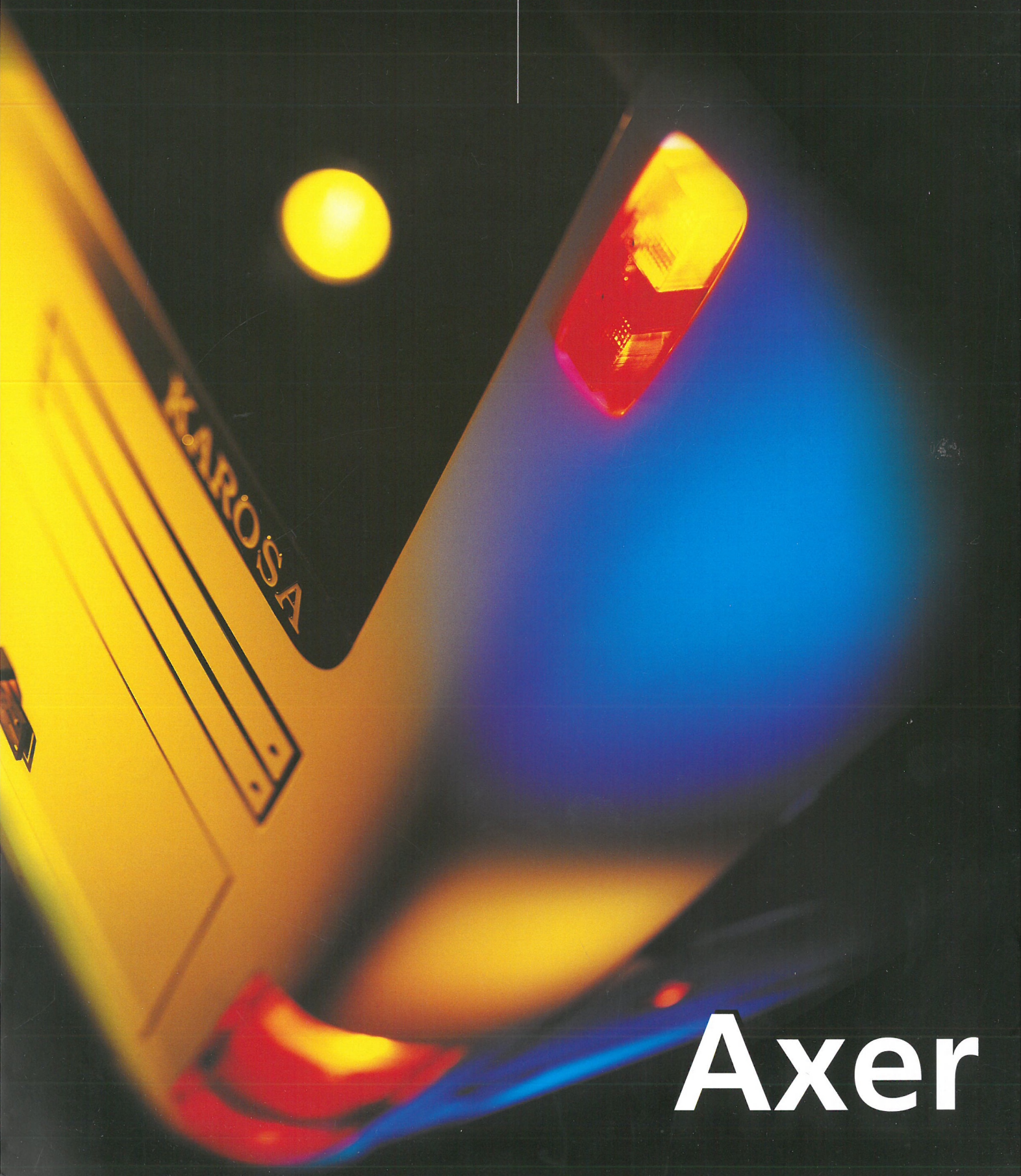




**KAROSA**

member of Irisbus Group



**Axer**



# AXER

## Body and surface finish

The twelve-metre skeleton of the vehicle (11,990 mm) is treated against corrosion by dipping in a cathophoretic bath. This technology has become the standard treatment of all KAROSA buses since the mid 2001. Exterior parts of the body are made of sheets with enhanced resistance to corrosion (ferro-zinc sheet), the rear panel is laminated and side windows with awning opening sections are bonded to the body. The surface finish of parts on the vehicle meets the conditions of tests in a salt-spray chamber exposure for a period of 1,000 hours. All the steel sections and pipes are chemically treated and provided with technological holes drilled at strategic positions before welding to insure that the surfaces of their internal sections are properly treated during the cathophoretic process just as well. After welding individual panels (chassis, side sections, roof and front section), the body is bolted together to form the vehicle skeleton. Side sheets are stretched temporarily over the side panels after skeleton assembly and then they are fixed once for all using adhesive bonding after cathophoretic treatment. The whole skeleton undergoes further chemical treatment (degreasing, zinc-phosphating, rinsing) before being dipped in the cathophoretic bath. Body paintwork is formed by the three coat layers the cathophoresis, the filler and the two-pack acrylic paint topcoat. Each bus manufactured by KAROSA undergoes a leakage and tightness test using a jet of water in a special cabin.

## Passenger and seat capacity

The driver's cabin is fitted as a standard with the seat provided with a three-point seat belt. Passengers can get on the vehicle through the pair of two single-leaf doors located at the front and rear of the vehicle. The AXER bus can normally carry 53 sitting passengers. In either case, there is room for 30 standing passengers. AXER is fitted with high, tilting, padded and fabric upholstered seats, designed in compliance with ergonomic principles and positioned to optimally meet the purpose of their use and to provide the maximum level of comfort to passengers on the long routes. The bus has 6.5 m<sup>3</sup> of space to store the luggage. The luggage storage capacity can be increased by attaching a luggage-storing box to the rear face of the vehicle. The vehicle can be modified to allow the box to be fitted. Another option is to attach a trailer to the bus.

## Glazing, ventilation and heating

All glass panes meet safety standards. Glass is tinted, which is effective for absorbing the sun's rays. Glazing is fitted using adhesive bonding. The vehicle interior is thermally insulated from the outside environment, namely along the roof and upon request also along the sides of the bus body. The heater ensures ventilation and fans in the floor distribute hot or cold air around the whole vehicle. The EBERSPÄCHER hot water heating system allows the cold engine to be heated before starting up, which is particularly advantageous in the winter. The vehicle can be fitted upon request with a THERMO-KING air conditioning unit. Tilting PARABUS roof windows in the front and rear parts of the vehicle may also be used as emergency exit points in case of an accident.



# Axer solution of y

## Characteristics of the intercity bus

In the offer of buses made by KAROSA, the intercity bus AXER fills the gap between the intercity model C 954E and the model LC 956E designed for medium-long tourist journeys. It meets passengers' requirements in the field of a higher standard of intercity transport. This practical compromise of the bus design with a possibility of selection of other variant solutions to the interior design is intended for medium and long journeys.

On the basis of long-term experience in operation of buses made by KAROSA in adverse climatic conditions of northern territories.

KAROSA has developed a special design of this bus model, which the company included in its business offer under the name Axer NORDIC.



## Safety

KAROSA pays particular attention to safety by adhering to all regulations and standards guaranteeing the passive safety of passengers.

All vehicles manufactured by KAROSA meet such regulations without exception. This particularly concerns the ECE 66 standard specifying the minimum body strength required to maintain essential survival space for passengers inside the vehicle even after possible body deformation resulting from an accident. Another passive safety element met by all KAROSA models is the strength of seats, including the strength of the driver's seat and their attachments. Manufacturer's obligations in this area are stipulated by standards ECE 80 and ECE 17.

Passenger seats underwent demanding "crash" tests during their development. If required by law in the country where the AXER bus will be operated, seats are fitted as standard with two-point seat belts, which are attached to the seat frame and meet the ECE 14 regulation requirements.

## Ecology

KAROSA has contributed to the protection of the environment by having introduced the most up-to-date surface finish technology using mainly water-soluble paints and the effective separation of all combustion products released into the atmosphere.

The IVECO CURSOR engine, which meets not only the EURO 3 emission standard, but also certain other requirements of the EURO 4 and EURO 5 standards, is a very environmentally friendly engine, indeed.

## Optional equipment

A wide selection of optional equipment allows customers to select the optimum interior arrangement for their vehicles with respect to passenger requirements under certain operating conditions. These accessories can also ensure extensive vehicle usability. Choice is available from the full range of elements beginning with automatic gearbox VOITH, air conditioning, through fridges, coffee machine, video system, alarm with immobiliser, outdoor temperature sensor, CD player, digital clock, safe, cruise control / bremsomatic, Fresnel lens spot lights, to a MERITOR rear axle with overall ratio of 3.21 or 3.42, 3.73. Overall ratio 4.52 is only possible with automatic gearbox VOITH.

# our transport

# Axer



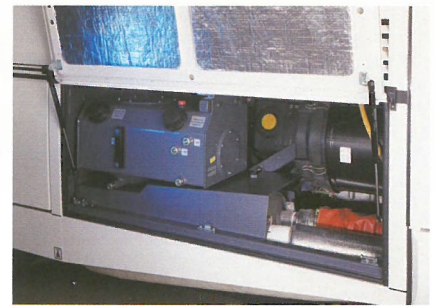
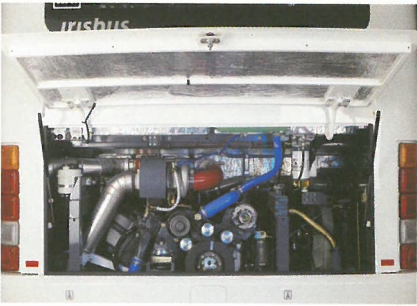
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# Karosa Axer

solution  
solution of your transport



## Engine, transmission and brakes

AXER bus is provided with a CURSOR type IVECO engine having a swept volume of 7,790 cm<sup>3</sup>, meeting all the requirements of the EURO 3 emission standard and, with respect to some selected parameters, also the requirements of EURO 4 and EURO 5 standards respectively. The engine is a six-cylinder in-line with direct fuel injection engine supercharged by the supercharger featuring a variable setting of the geometry of the fan blades. There is the separate air cooler installed at the intake of the air into the engine. The engine's maximum power output is 228 kW (310 Hp), at the torque of 1,250 Nm delivered between 1,080 – 1,700 rpm. The rev versus output power curve has a remarkably flat character. AXER bus is fitted with a ZF6S 1600 synchronesh gearbox or automatic gearbox VOITH D 864.3. Both front and rear brakes are of the disk type and are provided with a WABCO ABS/ASR system. The AXER bus is also provided with a TELMA F 2400 retarder.





# Karosa Axer

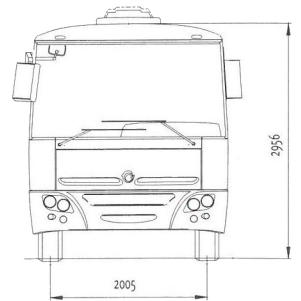
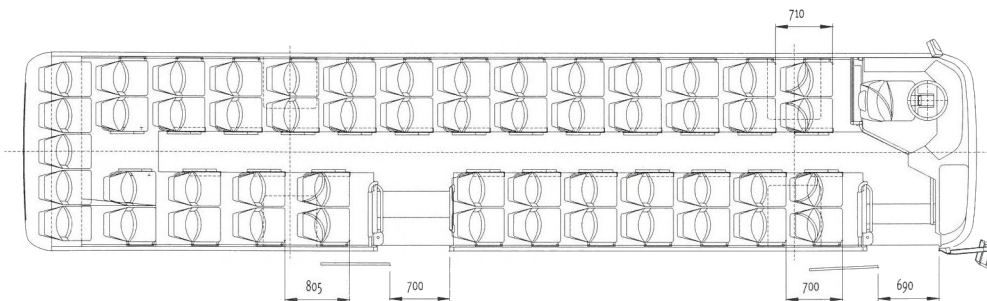
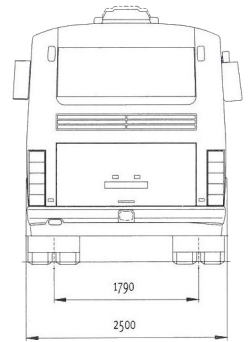
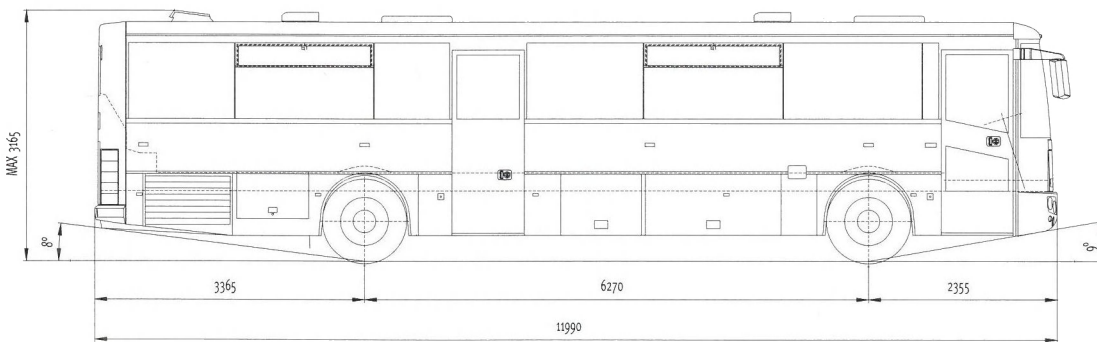
intercity bus

## Technical data

length	11,990 mm
width	2,500 mm
height	3,165 mm
total weight	18,000 kg
curb weight (without air conditioning)	11,500 kg
minimum ground clearance	220 mm
number of sitting passengers	47 – 53
number of standing passengers	max. 30

## Drive unit

engine	IVECO F2BE 1682G (EURO 3)
power output	228 kW (310 HP) / 2,050 rpm
torque	1,250 Nm / 1,080 – 1,700 rpm
gearbox	ZF 6S1600
	six-gear synchronized gearbox
optional transmission	automatic gearbox VOITH D 864.3
	maximum torque transmitted 1,250 Nm
	four gears forward, one gear in reverse
	integrated hydraulic retarder in gearbox



The manufacturer reserves the right to change the aforementioned characteristics without prior notice.  
Alterations may only be performed on the basis of official documents of KAROSA a.s..