

Technical Specifications of Oghab-Scania City Bus, Model: Arian (3-axle)

A Mass Transit Solution



Technical Specifications of Oghab-Scania City Bus, Model: Arian (3-axle)

Chassis

- Scania, type: K Series

Engine

- Type: Scania
- Number of cylinders: 5
- Output: 310 hp (228 kW) at 1900 rpm
- Displacement: 9290 cc
- Max. torque: 1550 Nm at 1000-1350 rpm
- Emission rating: Euro 3 - 4 - 5 - 6 (Euro 6 CNG)
- Equipped with turbocharger, charge air cooler, fuel cooler and centrifugal oil cleaner
- Engine location: Centrally and longitudinally mounted behind the tag axle
- A strong guard in the chassis and under the engine protects the engine against damages.

Gearbox

- Automatic ZF, 6AP1700BN, with vertical R-N-D gear selector
- Equipped with ZF hydraulic retarder

Cooling system

- Radiator with expansion tank and automatic cooling fan with hydraulic drive system

Suspension

Front axle

- Two air bellows + two shock absorbers

Rear axle

- Four air bellows + four shock absorbers

Tag axle

- Two air bellows + two shock absorbers
- Electronic level control to adjust the body ground clearance. For more safety, the vehicle returns to normal level automatically when the vehicle speed exceeds 40 km/h.
- Kneeling at the boarding steps

Rear axle gear ratio

- 4.88:1

Brake system

- Air brake system, disc brakes
- Air brakes with independent circuit for front, rear and parking
- Anti-lock Brake System (ABS)
- Electronic Brake System (EBS)
- Traction Control (TC)
- Exhaust brake
- Bus Stop Brake (BSB)

Electrical system

- Two alternators: 150 A, 24 V
- Two wet-cell MF batteries: 225 Ah, 12 V
- Electrical System Multiplex (CAN)

Tires

- Michelin/Bridgestone 275/70R22.5

Driver area

- Steering wheel, adjustable in height and rake
- The hanging accelerator and brake pedals are installed on the steering pillar for driver's comfort.
- Instrument cluster and digital tachograph
- Electrical diagnostic system
- Pneumatic seat: Sege/Pilot with armrest and 3-point seat belt.

Capacities and dimensions

- Passenger capacity: 47 sitting passengers and 46 standing passengers
- Passenger seat: Esteban/Brusa
- Door layout:
a) 1+1+1 (double doors) b) 1+2+2 (double doors, in airport buses)
- Wheelbase: 6900 mm
- Total length: 14800 mm
- Total width: 2550 mm
- Total height with AC: 3310 mm
- Front overhang: 2980 mm
- Rear overhang: 3500 mm
- Fuel capacity: 220 liters

Body structure

- The body structure is made of steel and welded with MIG/ MAG welding apparatus.
- The body is covered with steel sheets and painted with epoxy paints. The underside of the floor is protected against rust and corrosion with a thick layer of corrosion preventive oil.

AC and heating systems

- Roof-mounted Konvekta AC and heating system with total cooling power of 44 kW and total heating power of 44 kW with Bock compressor.
- Convector for the passenger area with heating power of 12 kW.
- Separate cooling and heating systems for the driver area with total cooling power of 8 kW and total heating power of 18 kW.

Audio/Visual system

- FM radio and announcement system with audio player using flash memories and SD cards
- The possibility of announcing and displaying the routes
- Amplifier
- The possibility of using microphones
- 5.6" color monitor with two inputs for the rear view camera and a camera above the rear steps
- Sign boxes

Standard equipment

- Curtains for all side windows
- Laminated double glazed windscreen
- Tempered double glazed side windows
- Driver's cab with an interior door
- Fire alarm system
- Two exterior mirrors and a front view mirror
- Sun visor
- Passenger's security system for the pneumatic doors

Options

- Monitors in front and middle of the bus
- DVD player
- Wheelchair ramp



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