

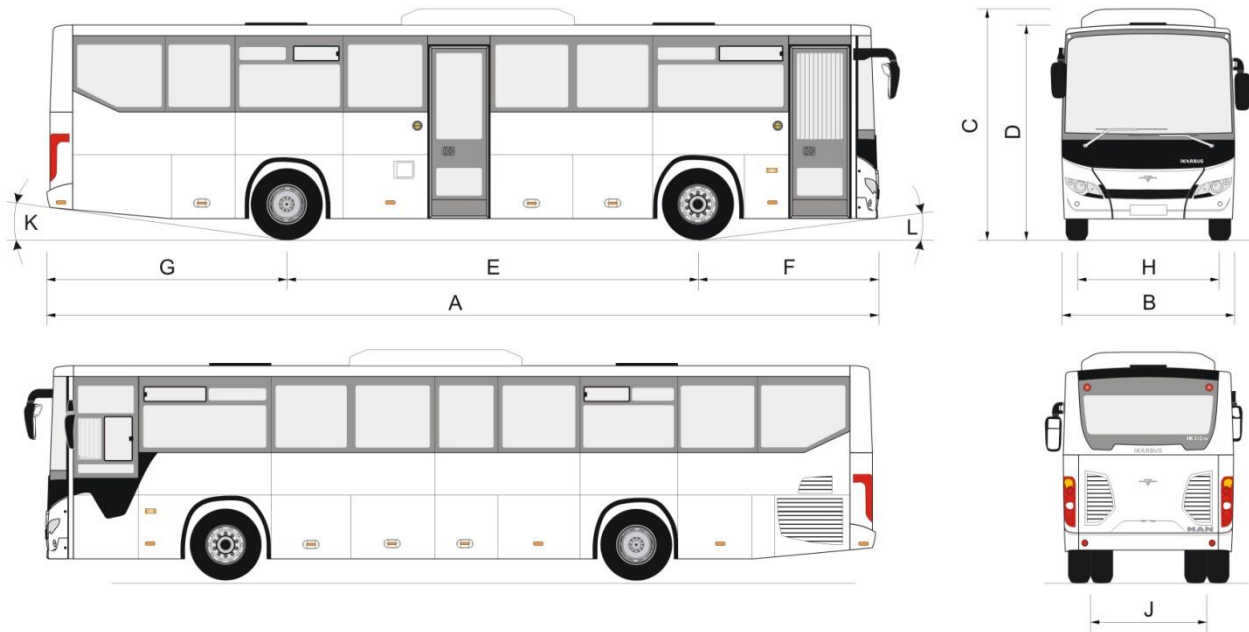


TECHNICAL SPECIFICATION

IK 3 | 2 M

INTERCITY BUS

2018.



DIMENSIONS

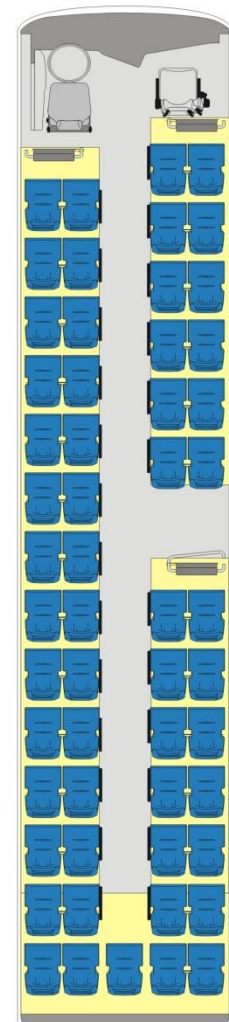
- A – Length 12300 mm
- B – Width 2550 mm
- C – Height (including A/C) 3380 mm
- D – Height 3140 mm
- E – Wheelbase 6100 mm
- F – Front overhang 2655 mm
- G – Rear overhang 3545 mm
- H – Front track 2094 mm
- J – Rear track 1822 mm
- Interior height 2050 mm
- Floor height 1025 mm
- First step height 320 mm
- Approach angle 7°
- Departure angle 7°

AXLE LOADS & WEIGHTS

- Front axle load (maximum permissible) 6500 kg
- Rear axle load (maximum permissible) 11500 kg
- Gross vehicle weight (GVW) 18000 kg

SEATING ARRANGEMENT

- This seating arrangement is an example
- Other variants are possible



Seats: up to 55 +1+1

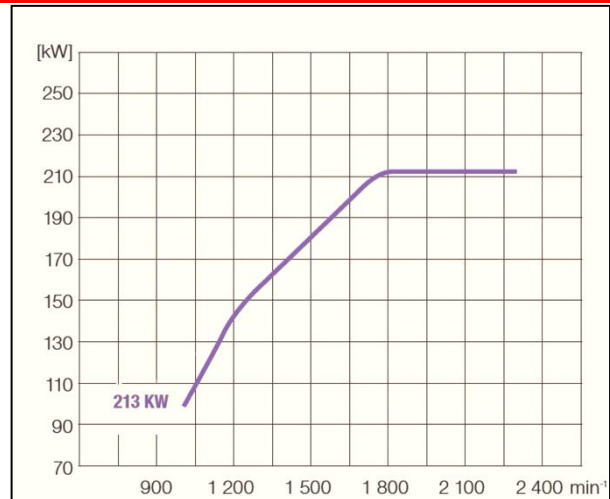


CHASSIS

- Manufacturer.....MAN
- Type.....Lion's Chassis (IC 19.290) / RR8

ENGINE

- Manufacturer.....MAN
- Type.....D0836 LOH64
- Emission standard.....EURO 5
- Fuel type.....diesel
- Construction.....4-stroke engine
with turbocharger and intercooler
- Mounting position.....rear, vertical engine
- Cylinders (number, arrangement).....6, in-line
- Displacement (Swept volume).....6871 cm³
- Cylinder bore x Piston stroke.....108 x 125 mm
- Rated power.....213 kW (290 hp) / 2300 min⁻¹
- Maximum torque.....1100 Nm / 1200-1700 min⁻¹
- Fuel injection system.....Common Rail
- Engine control.....EDC 7 C32
- Turbocharger.....2-stage
- Exhaust gas treatment.....Oxi-Cat system



TRANSMISSION

- Manufacturer.....ZF
- Type.....6 S 1911 BO (EcoShift)
- Transmission.....manual
with integrated retarder (ZF intarder)
- Number of gears.....6 + 1(R)
- Ratios.....6,44-0,81; R 5,89



REAR AXLE

- Manufacturer.....MAN
- Type.....HY-1350-B-03
- Ratio.....4,56

FRONT AXLE

- Manufacturer.....MAN
- Type.....VOK-08-B-05
rigid

WHEELS & TYRES

- Rims.....8,25 x 22,5"
- Tyres.....295/80 R22,5"
- Spare wheel

FUEL TANK

- Capacity.....440 (2 x 220) litres
- Made of stainless materials
- Filler cap.....at right-hand side

STEERING

- Hydraulic power-assisted steering
- ZF 8098 Servocom
- Adjustable steering column with pneumatic lock

SUSPENSION

- ECAS (Electronically Controlled Air Suspension)
- Front axle
 - air springs (air bellows).....x2
 - shock absorbers.....x2
- Rear axle
 - air springs (air bellows).....x4
 - shock absorbers.....x4
 - stabiliser



BRAKING SYSTEM

- Disk brakes
- Braking system.....dual-circuit, pneumatic
- EBS (*Electronic Braking System*) including:
 - ABS (*Anti-lock Braking System*)
 - ASR (*Acceleration Slip Regulation*)
- Auxiliary braking.....retarder (ZF intarder)
 - hand and foot operated
- Parking brake
- Air dryersingle chamber
 - with replaceable element and pressure regulator
- Oil separator
- Compressor 2-cylinder, 600 cm³

SAFETY & ADVANCED EQUIPMENT

- ESP (*Electronic Stability Program*)
- Cruise control (Tempomat)

HEATING – VENTILATION – AIR CONDITION

HEATING

- Passenger compartment
 - convectors
 - roof heating (via A/C)
- Driver's compartment
 - frontbox:
 - heater mounted under driver's control desk (front pult) which also serves for demisting/defrosting the windscreen
- Autonomous heater, pre-start heating of engine

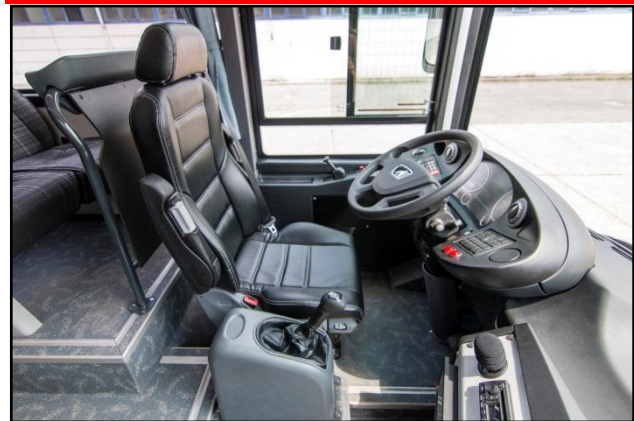
VENTILATION

- Natural
 - roof hatches
 - slide-windows
- Forced
 - roof air conditioner
 - frontbox

AIR CONDITION

- Passenger compartment
 - roof air conditioner
- Driver's compartment
 - frontbox

ELECTRICAL EQUIPMENT



- Dashboard..... MAN
 - in accordance with VDV Standard
- Battery 2 x 225 Ah / 12 V
- Generator (Alternator) 3 x 120 A / 28,5 V
- Starter 24V / 5 kW
- Tachograph..... digital (DTCO)
- Safety switch.....in accordance with ECE R36
- Water cooling with level sensor, buzzer and optic signal
- Engine protection with buzzer and optic signal for too low oil pressure and too high temperature
- Headlightshalogen
- Front fog lights.....halogen
- Rear fog lights.....halogen
- Reversing lights.....halogen
- Stop lights.....halogen
- End-outline lamps (front and rear)halogen
- Interior lighting LED



INTERIOR

- Passenger seats
 - luxurious, ergonomically shaped, upholstered
 - comfortable and appropriate for all traveling distances
 - single and double in accordance with seat arrangement
 - backrestadjustable
 - armrest.....foldable
 - restraint system.....2-point and 3-point seat-belt in accordance with seat arrangement
 - additional accessories..... optionally, by choice
- Driver's seat
 - with air suspension and automatic weight adjustment
 - heightadjustable
 - tilt.....adjustable
 - headrest.....adjustable
 - backrestadjustable
- Roller blinds for
 - windscreen
 - driver's window
- Luggage racks.....above seats, open
- Luggage compartment capacity 5 m³
- Mirrors
 - exterior..... rear view mirrors, heated
 - interiorfor monitoring passenger compartment and door areas



DOORS

- Door arrangement..... 1-1-0
 - single-panel plug door (outward)x2
- Power operated by driver (pneumatically, with electronic control)
- Emergency door opening.....control valves inside and outside, in doors area



GLAZING

- Windscreen.....laminated, 1-piece
- Side windows.....single-glazed, tempered, bonded
- Door glassestempered, bonded

BODY STRUCTURE

- Combined steel frame tubular structure (frame / chassis)
- All cavities are protected from inside and outside
- Side panels in wheel arches area stainless steel
- Lower side cavity..... stainless steel
- Wheel arches..... stainless steel
- Side panelsaluminium
- Roof and sidewalls with thermal insulation

ADDITIONAL EQUIPMENT (on request)

- Passenger information system:
 - Route and destination displays (monochrome or color):
 - Frontroute number + destination
 - Right sideroute number + destination
 - Rearroute number
 - Interiorroute number + destination
- Fire suppression system for engine compartment, including:
 - automatic fire detection system
 - automatic fire extinguishing system
- Audio-video system:
 - Audio-system + microphone
 - LCD monitor 19"x2
- CCTV
- Automatic oil level control (replenishment) system
- Central lubrication system