STARTER









Driver's ergonomics:

- ISRI driver's seat with pneumatic suspension.
- Separated heating system for driver and passenger compartment.
- Radio-CD with 5 speakers, volume adjustable for driver and passenger compartment.
- Pneumatically adjustable steering column.
- Lockable driver's glove box.
- Board computer.

Passenger confort:

- Dark tinted double glazed windows with 6 hopper windows.
- Comfortable seats with fixed armrests and anti-vandalism seat back.
- Luggage racks.
- Central illumination of ceiling with integrated loud speakers.
- Curtains.
- Large luggage compartment.
- Large side windows over full length.
- Disabled equipment:
- Contrasting colours for step well, aisle, grab handles and hand rail,
- "stiff leg" seats (2),
- Universal supports for destination equipment.
- Webasto heater (optional).

Safety on board:

- Integral brake system with disc brakes on both axles.
- Anti skid system for wheels, ABS, EBS and ASR standard.
- Anti roll over protection according ECE R66.
- Warning system when doors are open.
- Panoramic wind screen.
- Electrically heated driver's window and door window.
- Audible reversing signal and reversing sensors.



Disabled equipment for 1 or 2 wheel chairs.



Possibility for installation or preparation of wheel chair lift (with double doors, floor mounted fixation points and electrical wiring).



 Simple but functional rear view mirrors electrically heated (electrically controlled, as option).





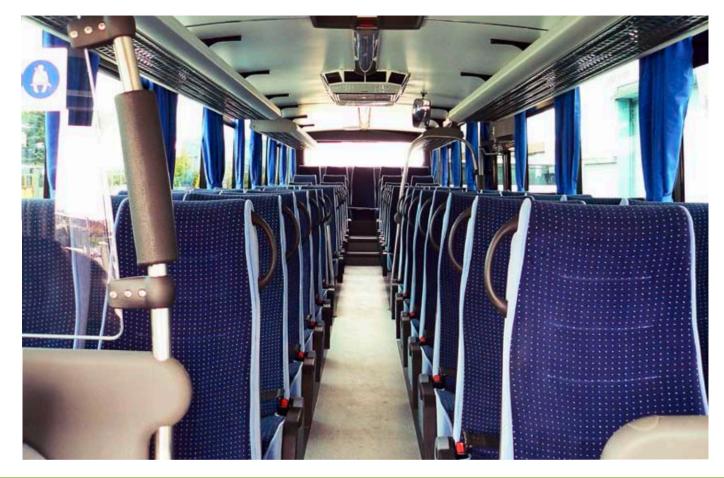


Control unit for destination equipment



Reliability combined with profitability

The value of the **MAN chassis**, which is used for the Starter has proven it's quality and durability (available in 2 engine versions, 240 and 280 bhp and optional with D20 engine in 310 and 350 bhp). The MAN engine will offer you economical fuel consumption for combined all round transport use.





Nicely and optimally ergonomically styled driver's compartment.

Decency screen covered with shock absorbing material.



3 Point seat belts and comfortable







Choice of 2 lenghts

12 m / 57 + 1 seats and 12,70 m / 61 + 1 seats.

Your choice to optimise the Starter to your needs and requirements in order to increase your profitability.



Simple but functional luggage racks (optional: closed luggage racks).



Tray table and preparation for ticketing machine is optional.







DIMENSIONS AND WEIGHTS

- Maximum total weight: 18 tonnes (19 tonnes BE + FR).
- Empty weight: 12 tonnes (depending on specification).
- Total length: 11,995 mm / 12,720 mm.
- Total width: 2,500 mm.
- Wheelbase: 5,940 mm / 6,640 mm.
- Internal height free height in interior: 2,000 mm.
- Vehicle height excl. air con: 3,300 mm (incl. air con: 3,383 mm).
- Front overhang: 2,605 mm.
- Rear overhang: 3,450 mm.
- Luggage space capacity (optional): 3 m³ (5.5 m³ if 12.7 metre version).

SEATING CAPACITY

12 m - 57 + 1 / 12.7 m - 61 + 1.

The vehicle complies with European directive 2001/85/EEC.
Comfortable coach seats with luxury uholstery. Grab handles on all seat backs.

Adjustable armrests on aisle side. Standard 3-point belts to all seats.

Standard hard plastic protection on seat backs (anti-vandalism).

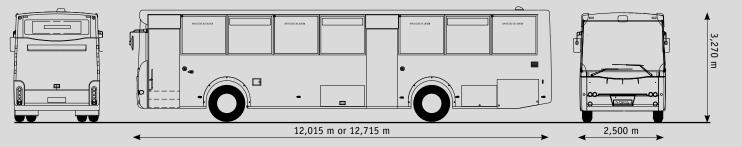
BODY STRUCTURE

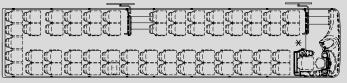
- STRUCTURE AND PANELLING: Chassis beams with cross sections for the chassis.
 Tubular frame for upper structure, galvanised steel and coated with epoxy paint.
- ACCESS: Pneumatically operated front and mid entrance door, outward swing type door. Entrance width 900 mm.

Stainless steel panelling.

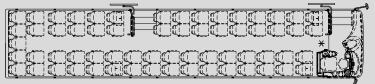
mid door as option.

 DISABLED ACCESS: double mid-doors, standard with pre-disposition of disabled lift.
 Low cost low entry wheel chair access at mid door as option.
 Cassette type lift in combination with double

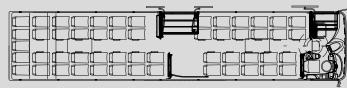




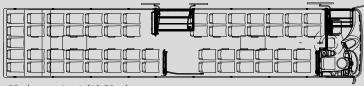




61 places + 1 (12,70 m)



51 places + 1 + 1 (12 m)



55 places + 1 + 1 (12,70 m)

TECHNICAL - MAN CHASSIS

• ENGINE: MAN D 0836 LOH 56, EURO 4 using EGR, 4-stroke common-rail Diesel, 6 cylinders in line, placed vertically behind the rear axle, turbo + intercooler, engine volume: 6.871 litres, EDC Common Rail injection.

Maximum power: 177 kW / 240 hp at 2,300 min-1

280 hp version can be delivered as an option. NO AdBlue needed. Maximum torque: 925 Nm from 1,200 min-1 to 1.800 min-1; 280 hp

version: 1,100 Nm from 1,000 min-1 to 1,650 min-1

Optional: Engine: MAN D 2066 LUH 22, EURO 4 using EGR, 4-stroke common rail, Diesel, 6 cylinders in line, placed horizontally behind the rear axle, turbo + intercooler, engine volume: 10.518 litres,

EDC Common Rail injection. Available in 310 or 350 bhp

• GEARBOX: fully automatic gearbox ZF 6HP 504 (Optional: fully automatic gearbox

Voith DIWA 854.5 (integrated retarder)

FRONT AXLE: MAN, type V9-82 L
 REAR AXLE: MAN, type HY 1336 B

• SUSPENSION: Front: f

Front: full air suspension using 2 air bellows + 2 shock absorbers Rear: full air suspension using 4 air bellows + 4 shock absorbers Vehicle is equipped with front and rear height adjustment system

ECAS – electrically controlled

• STEERING: ZF 8098, hydraulically assisted

BRAKES: front and rear ventilated disc brakes, pneumatically operated,

ARC Anti-Lead Parliage control and the Control an

ABS Anti Lock Braking system + ASR Traction Control system (EBS)

(ED

RETARDER: ZF Intarder, equipped with hand and foot controls
 FUEL TANKS: Capacity: 2 X 220 litres (440 litres in total)

Equipped with heated fuel line

• TYRES: Michelin 295/80 R 22.5 for medium distances

• ELECTRICAL SYSTEM: 24 Volt System

2 batteries with a capacity of 12 V - 225 A/h

Alternators: 2 X 110 A / 24 V

• PNEUMATIC SYSTEM: Air drier with integrated pressure regulator

External (service) connection to fill up the system



