

MAGNUS.Hybrid SCANIA CASTROSUA



Available length 11, 12, 13 and 15 meters.

GENERAL INFORMATION

Hybrid Propulsion. Homologated in Class II. Low Entry or High Floor Version.

DRIVELINE

Paralel hybrid technology.

Thermal engine

SCANIA Diesel DC09 108 320 Euro 6.
9.290 ccm with SCR technology. Particle Filter.
5 cylinder. 4 valves per cylinder. XPI Injection.
Fixed geometry Turbo charger (FGT).
Maximum Power: 235 kW (320 Hp) @ 1900 rpm
Maximum Torque: 1.600 Nm @ 1050-1300 rpm.
Exhaust brake: 190 kW @ 2400 rpm

Electrical engine/Generator SCANIA

177 Hp (130 kW) / 1.030 Nm.

GEARBOX

SCANIA GRS895 12 speed + 2 reversing gear.
Scania Opticruise complete automated with manual/automatic.
Hill Hold System.
Gearbox mode: ECONOMY / STANDARD.

BODY

New lighter Body structure in Galvanized ST52.
Exterior Body paneling with 3mm thick aluminum.
Front and rear in GRP (fibreglass).
2 deposits of 170 liters with possibility of refueling from both sides.
On low floor part without steps to seats except wheelchair seats.
Oversized wheelchair space of 1.400mm instead of standard 1.300mm as per UN-R107.
Reduced lower window line for seated passengers.

HYBRID BATTERIE MODULE

Li-Ion battery with 650 Volts
Usable energy 4.5 kWh
Refrigerated and heated by water.

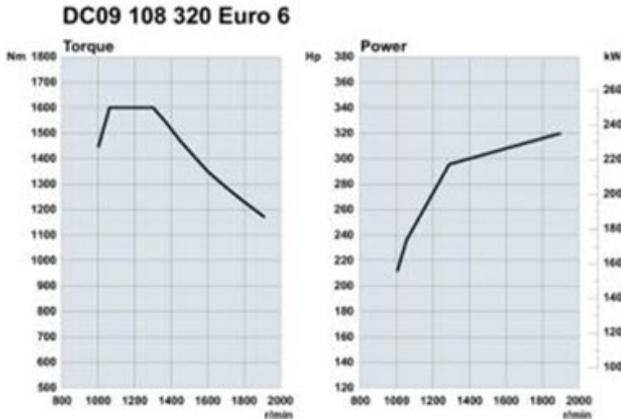
HYBRID DRIVING MODES

AUTOMATIC: Thermal engine remains idle or turns off automatically depending on the power demand of each driving situation.

SILENT: The driver can turn off thermal engine and drive on pure electric mode up to 45 km/h.

CHARGE: Driver can force charging of batteries to prepare for electric mode.

Extended EV driving range up to 6 km automatically controlled by the system with batteries at full charge.



DRIVER'S AREA

New driver's area more ergonomic and adapted to the needs of the client

Adjustable VDV dashboard.

STONERIDGE digital tachograph.

SCANIA C300 Fleet management system.

COLOUR PLUS display with colour TFT 6.5".

On-board computer.

Indicator of charge level of the hybrid battery

START/STOP disconnectable function. Turns off thermal engine when low power is needed.

Driving tips: Messages to the driver on the dashboard to optimize ecological driving.

STEERING

Electro-hydraulic with 24 V power supply

Adjustable 450 mm steering wheel.

Maximum wheel lock at 52°.

Third axle with servo-hydraulic assistance.

ELECTRICAL EQUIPMENT

230 Ah batteries. 24 V.

Magneto-thermal fuses.

AXLES AND WHEELS

Front axle: SCANIA AM 580 rigid (7.100 kg)

2nd axle SCANIA AD400 (12.400 kg)

3rd axle*: SCANIA AM660 (6.000 kg)

Wheel rims: 8,25x22.5

Tires: 295/80 R22.5

* length 14.810 m.

BRAKES

Disc brakes with uniform wear of brake pads electronically controlled.

Independent braking circuits: front, rear and parking.

EBS, ABS, ESP and traction control (TC).

Bus – stop parking brake with passengers door open.

Brake valve to disengage parking brake.

Combined braking of: Exhaust brake and regeneration brake automatically on brake pedal and manually with retarder lever in instrument cluster. Braking torque: 1.000 Nm.

SUSPENSION SYSTEM

Full pneumatic suspension electronically managed.

Raising, lowering and kneeling of vehicle by means of pneumatic suspension.

Optional: Alternative suspension height driving.

EQUIPMENT

Electrically operated passenger doors:

Front door: Double leaf inswing

Rear door: Double leaf outswing.

Automatic wheelchair access ramp Masats SAM 1001

Full LED head lights.

Eberspächer AC 136 G4 III air conditioning system (hot/cold).

Defroster / Heating System in drivers area.

Single glazing tinted with 2+2 thopper type windows.

One manually operated roof hatch.

Destination signs AESYS/HANOVER/BQB.

Interior rearview camera.

Exterior rearview mirrors electric and heated.

OPTIONALS

Metro type / sliding rear passenger door

Automatic wheelchair access ramp Masats RT1 floor integrated.

Automatic wheelchair Access ramp Hidral EWR.

Composite bus floor instead of laminated wood.

Double glazing.

One electrically operated roof hatch.

Hot /cold defroster.

Exterior cameras instead of rearview mirrors.

Eberspächer parking heater.

IMPROVEMETS

Increased interior space.

Enhanced driving dynamics.

Reduced fuel consumption.

ECO driving mode.

Air conditioning compressor driven by thermal engine (improved efficiency).

Proven robustness of driveline and modular system.

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