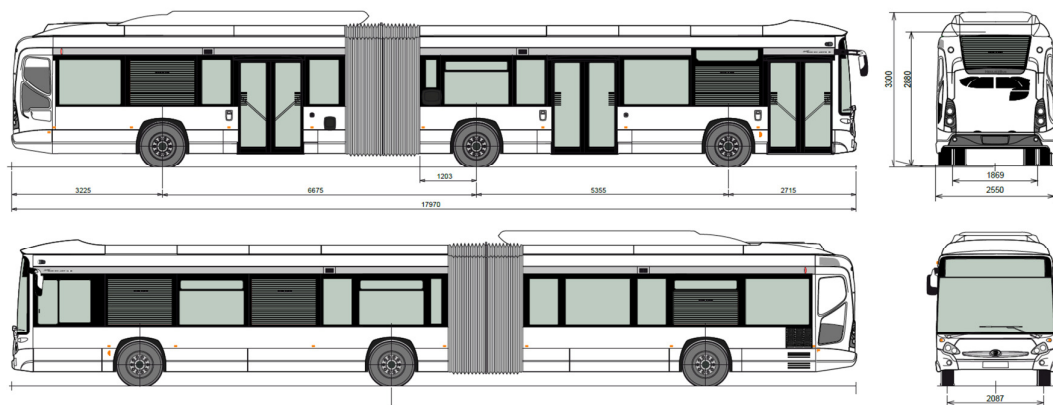




3 Access doors



Version for France
 Technical data sheet
 September 2013

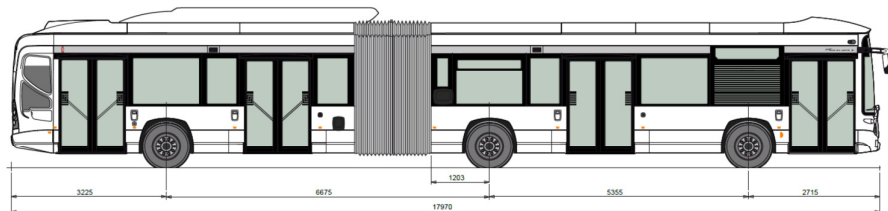
WEIGHTS

Gross kerb weight	according to equipments
G.V.W. max permitted weight	30 000 kg
on front axle	7 245 ou 7 500 kg
on middle axle	11 500 kg
on rear axle	13 000 kg

DIMENSIONS

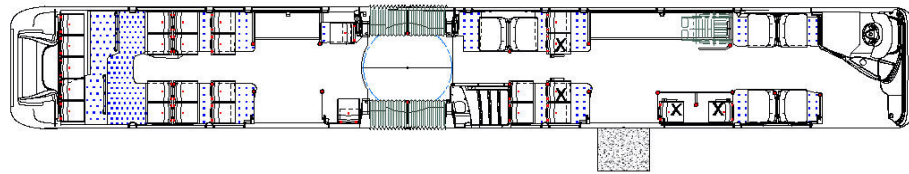
Overall length	17.970 m	
Front & rear overhang	2.715/3.225 m	
Wheelbase front & rear	5.355/6.675 m	
Overall width	2.550 m	
Total height, full load	3.300 m	
Inside headroom (front part)	2.384 m	
1 st step-height		
	front door	0.320 m
	centre & rear door	0.330 m
Width of doors	1200 mm	
Floor height	0.340 m	
Ground clearance, under skirt	0.300 m	
Front/rear tracking	2.087 m/1.870 m	
Inner Turning radius	10.182 m	
Outer Turning radius	11.650 m	
Angle of attack / escape	7.4°/7.4°	

4 Access doors

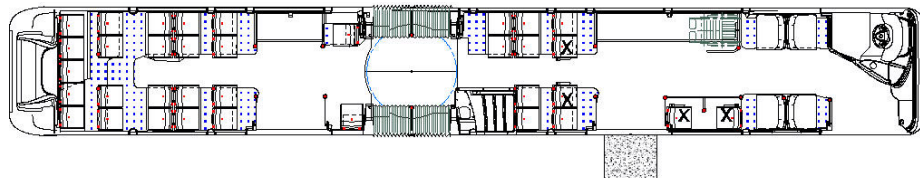


GX 437 HYB

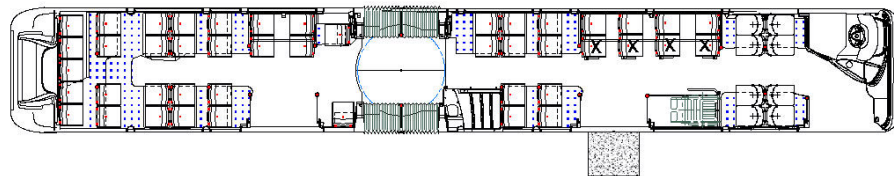
3 Access doors



33 seats + driver + "wheelchair" space

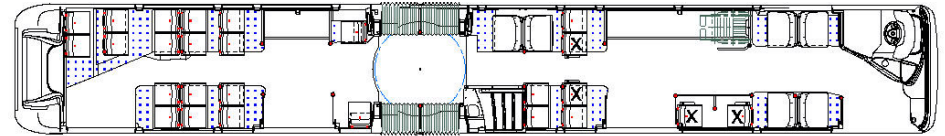


39 seats + driver + "wheelchair" space

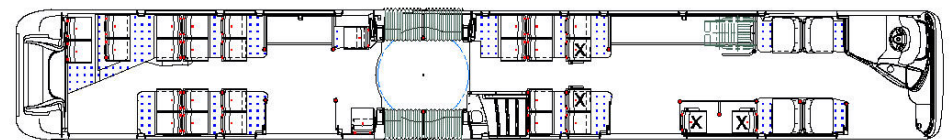


53 seats + driver + "wheelchair" space

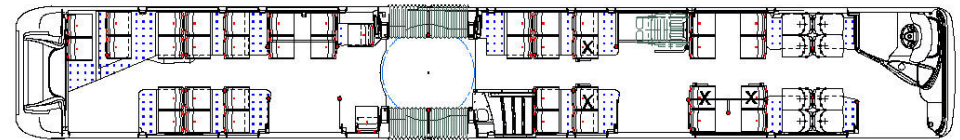
4 Access doors



32 seats + driver + "wheelchair" space



34 seats + driver + "wheelchair" space



48 seats + driver + "wheelchair" space

For alternative layouts, please contact us

CHASSIS AND STRUCTURE

Self-supporting integral structure. Anti-corrosion treatment of chassis by cataphoretic immersion. Body structure consisting in 5 panels (front/rear/left/right/top) made of welded stainless steel sections and sheet panels. Assembling of the 5 panels to the chassis by bolting. 12mm thick plywood floor, protected by phenolic resins on both sides and wax containing resins on ground side.

OPTIONS :

. Fire detector in engine compartment.	. Fire detector and extinguisher in engine compartment.
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PAINT & DECORATION

Exterior paint : polyurethane lacquer finish (white, RAL 9010), without customising.

OPTIONS :

. Custom finish.	. Lettering and adhesives.
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EXTERIOR EQUIPMENT

Left and right rear-view mirrors. Integrated flag holders. Wheel nut guards on front wheels.

OPTIONS :

. Self de-frosting rear-view mirrors . Left side and rear advertising frames . Fender skirt	. Motor driven and self de-frosting rear-view mirrors controlled from driving position . Front and rear wheel caps
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EXTERIOR TRIM

Composite front and rear ends, roof and side panels. Bonded assembly. Gravel resistant protected wheel arches. Composite front and rear bumpers in 3 parts at front end and at rear end.

GLAZING

TSA tinted Panoramic laminated glass windscreen bonded on front face. Tinted rear window. Bonded side windows : right-hand side : 8 fixed single-panel windows and 1 tilting window / left-hand side : 8 fixed single panel windows, 3 tilting window. Driver's window : sliding type in front part. TSA tinted glass all round.

OPTIONS :

. Sliding type side windows. . Triangular windows on platform. . Heat-reflecting side windows. . Glazed roof : Lumi'Bus ®	. Heat-reflecting windscreen. . Left-hand side : 6 tilting windows . Right-hand side : 2 tilting windows
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ACCESS AND DOORS

3 inward swing doors. 2-leaf doors are air-driven. Both leaves of front door are double glazed. Brakes applied by opening of the central door. Manual access ramp on the central door. Buzzer on doors.

OPTIONS :

. 4 door version . Safety by photo-cells on doors. . Passenger counting system on LCD screen.	. Brakes applied by opening of the front door. . Self service. . Electrical access ramp . . Center sliding doors. . 2 nd & 3 rd & 4th inward swing door.
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INTERIOR TRIM

High wear resistant floor covering up to plinths top. Laminated roof and side panels. Thermo-formed wheel arches. Polyester ceiling arches.

DRIVER'S COMPARTMENT

Adjustable steering wheel (height and angle). Air-suspended driver's seat with adjustment control on right-hand side. VDV instrument panel with warning lamps and control display panel. Pivoting door, wall behind the driver with a glazed upper part. Interior rear-view mirrors. Left side and front sun visor. Driver's individual light, luggage box. Average fuel consumption on dashboard.

INTERIOR FINISHES

Front destination indicator with full opening door. TSA tinted glazed partitions on doors. 8 loudspeakers. 5 « emergency exit » hammers. Fire extinguisher location close to the driving position. 8 « stop requested » push buttons with acoustic warning. « wheelchair » space with padding and sensitive « stop requested » push button with acoustic warning.

OPTIONS :

. Padding on platform. . Additional « stop requested » switches. . Video surveillance.	. Fire extinguisher. . Interior information frames. . First-aid box (empty). . Driver loudspeaker.
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HEATING - COOLING

Front heating/de-frosting unit used for driver's compartment (air from outside or re-circulated air). 4-speed control (power : 17 500 W). 1-off passenger heater (forced air, 7500 W) with 4 speeds controlled from the dashboard. Insulated roof.

OPTIONS :

. Motor driven opaque roof hatches . Hand actuated opaque roof hatches . Passenger and driver's compartment air conditioning	. Additional heater in passenger compartment . Autonomous pre-heater . Heat-reflecting glazed roof hatches, motor-driven
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SEATS LAYOUTS

4 seats dedicated to people with reduced mobility. Epoxy stanchions and handrails. Grey epoxy-painted seat legs.

OPTIONS :

. Multi-branch stanchion on central platform. . Stainless steel stanchions and handrails.	. For passenger seats options (anti-vandalism upholstered, or other seat models etc) please contact us.
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DESTINATION AND INFORMATION EQUIPMENT

Preparation for front or lateral electronic destination indicator. 3-off illuminated « stop requested » sign box at the front. Preparation for illuminated strip display behind the driver. Preparation for acoustic and visual information.

OPTIONS :

. Line stops map (single or double sided) near the ceiling. . Lateral destination indicator flush mounted with side window top.	. Additional illuminated « stop requested » sign boxes. . Front destination indicator. . Line number display at rear window. . Acoustic and visual information of destination.
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ELECTRICAL EQUIPMENT

24 V nominal voltage. 2-off 12 V 225 A/h maintenance-free batteries mounted on a sliding support located in an outside compartment at the vehicle front left-hand side . Battery re-loading and engine start FENWICK socket. 2-off 300 A alternators. Thermal circuit-breakers. Front lights : parking lights, dipped headlights, driving lights hinge fitted and turning lights. Rear lights : parking lights, stop lights, fog lights, reverse lights and turning lights. 3-speed electrical windscreen wipers with intermittent speed controller. Electrical windscreen washer with wiper mounted nozzles. Passenger compartment lighted by fluorescent overhead lights (staggered lighting possible). Door step lighting at door opening. Lighting of driver's compartment, paying position and steps. Engine compartment lighting. Electricity-saving system for intensive use whilst engine is off. Electrical cabinet located in the lower section of the wall behind the driver's seat. Diagnosis system on board (1st level).

OPTIONS :

. Front fog lights . 3 rd stop light . Flashing/stop indicators on the top of rear end. . Atmosphere lightings with leds blue..	. Complete radio equipment . Monoring gong for pedestrian zone . Day time running lights.
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DRIVE LINE ENGINE

Engine position	rear left, longitudinal
Mark	FPT
Type	Tector 7
Cycle	4-stroke, diesel
Bore.....	104 mm
Stroke	132 mm
Number of cylinders.....	6
Cylinders lay-out.....	upright, in line
Cubic capacity	6.7 cc
Compression volumetric ratio.....	17/1
Overfeed.....	exhaust turbocharger with intercooler
Cooling system	liquid circuit with thermostat, radiator hydraulic-driven cooling fan, steel pipes and silicon flexibles.
Air filter	dry
Fuel (common rail).....	diesel
Lubrication.....	oil circulation under pressure single cartridge oil filter
Max. output (2 doors).....	210 kW (286 HPDIN) at 2 500 rpm
Max. torque.....	1000 Nm at 1250 rpm
Fiscal power	18 HP
Sound proofing	noise shield and encapsulation of engine compartment
Emergency stop / sound alarm.....	engine running Air + gearbox +engine water/oil +alternator failure +probe on cooling liquid Tank
Exhaust pipe.....	in low position
. Diesel pre-heater	

SERIAL HYBRID STRUCTURE

- Integrated starter Generator (200 kW) produces electricity to charge the batteries and power the electric motor.
- Restart the Diesel engine for the « Stop & Start » function.
- Energy storage lithium-ion batteries (11 kWh), to recover kinetic energy when braking. Power the electric motor when accelerating.
- Electric engine of 160 KW continuous and 200 kW drives the rear axle.
- Stop & Start function: Engine switch off when the vehicle is stopped.
- Braking energy recovery.

OPTIONS :

. "Arrive & Go " function diesel engine being cut off before bus stop.

FRONT AXLE

Front independant wheels.

REAR AXLE

ZF AV 132-87 ° double-reduction axle. Reducers ratio in hubs : 1/3,2.
Axle torque : 6.21

SUSPENSION

Constant height air suspension. 2 air bellows at the front, 4 air bellows at the rear. Constant floor height controlled by electrical levelling valves. Suspension high-position for driving over obstacles. Kneeling and raising system (60 mm stroke) on vehicle right-hand side, controlled from the driving position.

STEERING

Hydraulic power assisted steering. ZF 8098 steering box.

COMPRESSED AIR

Pressure : 12 bars. 630 cm3 twin-cylinder air compressor with a 760 l/mn flow rate. Driven by sprockets and cooled by the engine circuit. Polyamide and stainless steel piping, quick fittings. Singletower air dryer. Manual bleeding on the air tanks. Cyclone air cleaner.

OPTIONS :

. Manual bleeding, offset

BRAKES

Service brakes : air-controlled disc brakes at the front and at the rear. Gear box built-in hydraulic retarder coupled to the service brakes. Pneumatic parking brake actuated by lack of air, spring chamber on rear wheels. Door brake : manually controlled temporary stop operating on the rear braking circuit. Parking brake and door brake controlled via separate circuits. Emergency braking operated by parking brake. ABS-ASR braking system. EBS braking system.

FUEL TANK

Capacity : 350 litres + 80 litres of AdBlue additive. Tank filling spouts on vehicle rear right hand side.

WHEELS AND TYRES

275/70 R 22.5 tyres at the front and 315/60 R 22.5 tyres at the rear.

OPTIONS :

. Rear towing eye bolts.	. Standard vehicle accessories kit.
. Lose spare wheel or rim.	. 455/45 R 22.5 tyres at the rear.

PERFORMANCES

Maximum speed : 70 km/h .