



CO 19.430 D26 E6 (RR2) COACH BUS CHASSIS



EXTERIOR DIMENSIONS

VEHICLE LENGTH	11-13m
CHASSIS WIDTH	2,450mm
TRANSPORT WHEELBASE	4,000mm
FRONT OVERHANG	Provisional (defined by the bodybuilder)
REAR OVERHANG OPTION	3,400mm
CHASSIS APPROACH ANGLE	Defined by bodybuilder
CHASSIS DEPARTURE ANGLE	7.5° (defined by bodybuilder)
WEIGHT (GVM)	19.5t
FUEL TANK VOLUME OPTION	1 × 480L tank on the front axle. Filler neck on left and right. 2 × 220L (provisionally secured) 1 × 60L Ad Blue Tank
FILTRATION	Additional primary fuel filter with water separator



ENGINE

TYPE	MAN D2676 LOH37 vertical inline 6- cylinder 24 valve, overhead camshaft, 2 stage turbocharging with low and high-pressure intercoolers, EGR, with SCR exhaust after treatment.
DISPLACEMENT	12.419L
BORE	126mm
STROKE	166mm
INJECTION TYPE	Bosch EDC 17 Common Rail
ENGINE OUTPUT	316kW/430hp at 1,800rpm
MAXIMUM TORQUE	1,600Nm at 930 -1,350rpm
ENGINE OUTPUT OPTION	346kW/470hp at 1,800rpm 2,300Nm at 930 -1,350rpm or 375kW/510hp at 1,800rpm 2,500Nm at 930 -1,350rpm
EMISSION CLASS	Euro 6d
COOLING SYSTEM	Thermostatically controlled Electronically controlled hydrostatic fan drive. Left rear-cooling package with hinged charge air cooler for ease of maintenance access.



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TRANSMISSION

TYPE	MAN Tipmatic automated transmission with integral retarder.									
MODEL	12OD									
GEAR RATIO	1st	2nd	3rd	4th	5th	7th	11th	12th	REV	
	12.92	9.98	7.69	5.94	4.57	2.83	1	0.77	12.03	
OPTION	ZF 6-speed Ecolife automatic transmission with integral retarder (430 & 470hp only)									
MODEL	6AP2520									

GEAR RATIO	1st	2nd	3rd	4th	5th	6th	REV
	3.36	1.91	1.42	1.00	0.72	0.62	4.24
	Reverse ratio 3.8 – 4.3						
GEAR SELECTOR	Rotary DM/D/N/R/RM gear selector switch.						



AXLES

FRONT AXLE	MAN VOS-08-B-01 Independent Front Suspension with stabiliser bar, and two separate airbags and shock absorbers.
DRIVE AXLE	Hypoid type HY1350-B03, with wide track rear air suspension, rear stabiliser bar and maintenance free wheel bearings.
FINAL DRIVE RATIO	i=3.15 std, i=2.73 optional



STEERING

TYPE	Type: ZF Servocom 8098 Ball-and-nut power steering. Steering column adjustable for both height and inclination.
STEERING WHEEL DIAMETER	460mm Multi-Function



WHEELS & TYRES

WHEELS	8.25" x 22.5" Alloys
TYRES	295/80 R22.5 Continental Radials



BRAKING SYSTEM

WHEEL BRAKES	4 wheel disc brakes with self-adjusting calipers and integral pad wear sensors.
CONTROL	Electronic Braking System (EBS) which incorporates Antilock Brake System (ABS), Anti Spin Regulator (ASR) and Electronic Stability Program (ESP)
AIR BRAKE SYSTEM	Dual circuit air brakes approved to EC and ECE guidelines.
PARKING BRAKE	Spring loaded combination brake cylinder.
BUS STOP BRAKE	Activates service brakes via dash switch or automatically controlled by the Bodybuilder. Remains active until accelerator pedal is depressed.
CONTINUOUS BRAKES (RETARDER)	Activated with brake pedal or via multifunction steering wheel.

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COMPRESSED AIR SYSTEM

COMPRESSOR	Gear driven 360cm ³ single cylinder air compressor.
CYLINDERS	1
CAPACITY	360cm ³
DISPL. EFFORT	40L /min at 1900rpm
OIL / WATER SEPARATOR	Haldex oil/ water separator
CUT OFF PRESSURE	12 Bar
AIR TANKS	1 × 40L front axle air reservoir 1 × 40L rear axle air reservoir 1 × 20L auxiliary consumers



AIR SUSPENSION

CONTROL	Electronically Controlled Air Suspension (ECAS). Electronically controlled constant ride height regardless of load.
SENSORS	1 × ECAS sensor on front axle 2 × ECAS sensors on the rear axle
DRIVER'S CONTROLS	Kneel (front axle complete), raise and return to normal ride. Kneeling lower front axles approximately 80mm from normal ride height.



ELECTRICAL SYSTEM

BATTERIES	2 × 12V 225Ah maintenance free batteries connected in series (24V).
ALTERNATORS	2 × 120A Bosch
CHARGE RATE (IDLE)	160A at nominal voltage
STARTER MOTOR	24V/5kW Reduction drive type
MAIN RELAY	Single pole (with emergency off)
CIRCUIT PROTECTION	Resettable circuit breakers for current < 25A. Mega fuses for high current circuits.
ARCHITECTURE	The chassis electronics is based on a multi speed CAN network structure which supports full on board and off board diagnostics



DRIVER'S DISPLAY

DRIVER'S DISPLAY	Instrument panel with central LCD display, central warning lamp, warning lamp cluster, integrated rev counter and speedometer.
GAUGES	Front and rear service brake air reservoir pressure. Coolant temperature and fuel
ADDITIONAL INFORMATION AVAILABLE	Fuel consumption, trip data, oil pressure and battery voltage are accessible via LCD display.



DRIVER'S ASSISTANCE

DRIVER ASSISTANCE SYSTEMS	ACC: Adaptive Cruise Control EBA: Emergency Brake Assistance LGS: Lane Guard System TPMS: Tyre Pressure Monitoring System Automatic headlamps and wipers
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