



# RR4

## COACH BUS CHASSIS



### EXTERIOR DIMENSIONS

VEHICLE LENGTH	12.5 -14.5m
CHASSIS WIDTH	2,450mm
TRANSPORT WHEELBASE	4,500mm
FRONT OVERHANG	Provisional (defined by the bodybuilder)
REAR OVERHANG OPTION	3,100mm
CHASSIS APPROACH ANGLE	Defined by bodybuilder
CHASSIS DEPARTURE ANGLE	9° (defined by bodybuilder)
WEIGHT (GVM)	26t
FUEL TANK VOLUME	1 × 480L tank on the front axle. Filler neck on left and right. 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	375kW/510hp at 1,800rpm 2,500Nm at 930 -1,350rpm
EMISSION CLASS	Euro 6
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

<b>TYPE</b>	MAN Tipmatic automated transmission with integral retarder.								
<b>MODEL</b>	12OD								
<b>GEAR RATIO</b>	<b>1<sup>st</sup></b>	<b>2<sup>nd</sup></b>	<b>3<sup>rd</sup></b>	<b>4<sup>th</sup></b>	<b>5<sup>th</sup></b>	<b>7<sup>th</sup></b>	<b>11<sup>th</sup></b>	<b>12<sup>th</sup></b>	<b>REV</b>
	12.92	9.98	7.69	5.94	4.57	2.83	1	0.77	12.03
<b>GEAR SELECTOR</b>	Rotary DM/D/N/R/RM gear selector switch.								



### AXLES

<b>FRONT AXLE</b>	MAN VOS-08-B-01 Independent Front Suspension with stabiliser bar, and two separate airbags and shock absorbers.
<b>DRIVE AXLE</b>	Hypoid type HY1350-B01, with wide track rear air suspension, rear stabiliser bar and maintenance free wheel bearings.
<b>TAG AXLE</b>	MAN NOL-08-B-02 Electro-hydraulic steered tag axle
<b>FINAL DRIVE RATIO</b>	i=3.15 std, i=2.73 optional



### STEERING

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



### WHEELS & TYRES

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



### BRAKING SYSTEM

<b>WHEEL BRAKES</b>	6 wheel disc brakes with self-adjusting calipers and integral pad wear sensors.
<b>CONTROL</b>	Electronic Braking System (EBS) which incorporates Antilock Brake System (ABS), Anti Spin Regulator (ASR) and Electronic Stability Program (ESP)
<b>AIR BRAKE SYSTEM</b>	Dual circuit air brakes approved to EC and ECE guidelines.
<b>PARKING BRAKE</b>	Spring loaded combination brake cylinder.
<b>BUS STOP BRAKE</b>	Activates service brakes via dash switch or automatically controlled by the Bodybuilder. Remains active until accelerator pedal is depressed.
<b>CONTINUOUS BRAKES (RETARDER)</b>	Activated with brake pedal or via multifunction steering wheel.



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### COMPRESSED AIR SYSTEM

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



### AIR SUSPENSION

<b>CONTROL</b>	Electronically Controlled Air Suspension (ECAS). Electronically controlled constant ride height regardless of load.
<b>SENSORS</b>	1 × ECAS sensor on front axle 2 × ECAS sensors on the rear axle
<b>DRIVER'S CONTROLS</b>	Raise or lower both axles simultaneously approximately 80mm from normal ride height



### ELECTRICAL SYSTEM

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



### DRIVER'S DISPLAY

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



### DRIVER'S ASSISTANCE

<b>DRIVER ASSISTANCE SYSTEMS</b>	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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