



# LE 19.330 D15 E6 (RC2) LOW ENTRY BUS CHASSIS



## EXTERIOR DIMENSIONS

VEHICLE LENGTH	12-13m
CHASSIS WIDTH	2,450mm
TRANSPORT WHEELBASE	4,000mm
FRONT OVERHANG	Provisional (defined by the bodybuilder)
REAR OVERHANG OPTION	3,400mm 3,250mm
CHASSIS APPROACH ANGLE	Defined by bodybuilder
CHASSIS DEPARTURE ANGLE	7.5° (defined by bodybuilder)
WEIGHT (GVM)	19.5t
FUEL TANK VOLUME OPTION	1 × 300L (behind drive axle) 2 × 145L (provisionally behind front axle) 1 × 35L Ad Blue Tank
FILTRATION	Additional primary fuel filter with water separator



## ENGINE

TYPE	MAN D1556 LOH11 vertical inline 6- cylinder 24 valve, overhead camshaft, single turbo designed for SCR and CRT & intercooler.
DISPLACEMENT	9.037L
BORE	115mm
STROKE	145mm
INJECTION TYPE	DENSO EDC17 Common Rail
ENGINE OUTPUT	243kW/330hp at 1,800rpm
MAXIMUM TORQUE	1,400Nm at 900-1,600rpm
EMISSION CLASS	Euro 6d SCR only
COOLING SYSTEM	On demand control of cooling components. 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>	ZF 6 Speed 6AP2000B Ecolife 2 with integral retarder.					
<b>MODEL</b>	6AP2000					
<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>6<sup>th</sup></b>
	3.36	1.98	1.44	1.00	0.70	0.59
	Reverse ratio 3.8					
<b>GEAR SELECTOR</b>	Rotary DNR gear selector switch. DNR123 available as an option.					



## AXLES

<b>FRONT AXLE</b>	MAN VOK-07-B rigid cast tubular axle with air suspension, anti-roll bar, steering damper and maintenance-free wheel bearings.
<b>DRIVE AXLE NARROW TRACK</b>	Hypoid type HY1350-B03, with narrow track rear air suspension, rear stabiliser bar and maintenance free, wheel bearings.
<b>FINAL DRIVE RATIO</b>	i=5,67 option: i=4.56



## STEERING

<b>TYPE</b>	ZF Servocom 8098 Ball-and-nut power steering. Steering column adjustable for both height and inclination.
<b>STEERING WHEEL DIAMETER</b>	500mm



## WHEELS & TYRES

<b>WHEELS</b>	7 10-hole steel disc wheels Size 8.25 × 22.5
<b>OPTION</b>	Aluminum
<b>TYRES</b>	295/80 R22.5 Continental Radials



## BRAKING SYSTEM

<b>WHEEL BRAKES</b>	4 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 and via drivers retarder stalk switch.

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## COMPRESSED AIR SYSTEM

<b>COMPRESSOR</b>	Gear driven 2 stage Voith LP 490 with SLS (power-saving system).
<b>CYLINDERS</b>	2
<b>CAPACITY</b>	399cm <sup>3</sup> (1 <sup>st</sup> Cylinder) 85 cm <sup>3</sup> (2 <sup>nd</sup> cylinder)
<b>DISPL. EFFORT</b>	405cm <sup>3</sup> /min at 1600rpm
<b>OIL / WATER SEPARATOR</b>	MAN Air Management System with integrated oil/water trap.
<b>OPERATING PRESSURE</b>	12.5 Bar
<b>MAX. POSITIVE PRESSURE</b>	13.5 Bar
<b>AIR TANKS</b>	1 × 40L Front axle air reservoir 1 × 40L Rear axle air reservoir 1 × 20L Auxiliary consumers 1 × 40L Air suspension



## 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>	Kneel (front axle complete), raise and return to normal ride. Kneeling lower front axles approximately 70mm from normal ride height.



## ELECTRICAL SYSTEM

<b>BATTERIES</b>	2 × 12V 225Ah maintenance free batteries connected in series (24V).
<b>ALTERNATORS</b>	2 × 28.5V, 120A Bosch
<b>CHARGE RATE (IDLE)</b>	160A at nominal voltage
<b>STARTER MOTOR</b>	24V/5.5 kW 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 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>	Fuel consumption, trip data, oil pressure and battery voltage are accessible via LCD display with the option of geofencing.

