



## Technical specification

### MJT L23-09D Full low floor city bus

**Engine:** **MAN D 0836 LOH 55**

Four-stroke, turbocharged direct injection diesel engine with intercooler.

Displacement: .....6871 ccm  
Number of cylinders: .....6  
Position: ..... in line, vertical  
Bore × Stroke: ..... 108 × 125 mm  
Compression ratio: ..... 17.3 : 1  
Max. output: .....206 kW (280 HP)  
Max. output speed:.....2300 rpm  
Max. torque: ..... 1100 Nm  
Max. torque speed:..... 1200-1650 rpm  
Idle speed:.....570 rpm  
Max. no load governed speed: .....2650 rpm  
Emission:..... Euro 4

**Transmission:** **VOITH DIWA D854.5**

4-speed, automatic, electro-hydraulic controlled, planetary gearbox with integral hydrodynamic retarder.

Ratios: ..... 5.90 / 1.43 / 1.00 / 0.70 / R4.70

**Drive shaft:**

GWB make tubular driveshaft with universal joints.

**Front axle:** **ZF RL85/A**

Rigid portal axle with air springs, hydraulic shock absorbers, trailing- and V-rods.

Wheel back-lock angle: .....55 °  
Capacity: .....8500 kg

**Rear axle:** **ZF AV132/80**

Portal driven axle with secondary hub-reduction gearing, with air springs, hydraulic shock absorbers, trailing- and V-rods.

Final reduction ratio:.....6.2  
Capacity: ..... 13000 kg

**Wheels:**

Trim: .....8.25×22.5

Tyre: ..... 275/70 R22.5

**Steering:****ZF Servocom 8098**

Recirculating ball steering gear with integral hydraulic power assistance, LHD. Pneumatically adjustable steering column without steering/ignition lock.

**Braking system:**

Dual circuit, full dry air brake system with Knorr-Bremse valves and ventilated disc brakes, ABS, ASR, halt brake provision on driven axle, to be activated with doors open.

**Fuel tank:**

On the right side, behind the front axle, with a capacity of 330 litres.

**Bodywork:**

Welded monocoque body framework of rectangular steel sections. Side panelling of galvanized steel plates. Front-, rear wall and roof panels of GRP laminate form pieces and plates. Heat and sound insulation. One-colour painting of acrylic base. The frame is with hole-protection and the lower frame sections are treated with anti-corrosion material. Security tinted side glasses and the laminated windscreens are bonded on to the frame. Double-wing EP operated inward swinging passenger doors of bonded Al-construction.

**Interior:**

Low floor throughout the vehicle, made of plywood with PVC covering. The inside wall trim and the ceiling made of resin base decor plates.

Fix backrest passenger seats with textile covered inserts. Driver's seat with air suspension, headrest and 3-point belt.

**Heating and ventilation:**

Static heating with convectors along side walls. Extra heater with blower for the driver's compartment and windscreen. HISPACOLD air conditioning system with air distribution channels.

**Electrical system:**

Multiplex electrical system with SILEX I/O units.

Operating voltage 24 V DC, 2 × 12V / 200 Ah batteries

2 × 120 A alternators

**Equipments:**

Electronic levelling system (ECAS) with kneeling function  
Monitoring system for the rear doors.  
Colour information display on the instrument panel  
Manual folding ramp at the rear door  
Digital tachograph

**Dimensions and weights:**

Length: .....	12000 mm
Width: .....	2550 mm
Height (with AC): .....	3000 mm
Wheelbase: .....	5900 mm
Overhang front: .....	2700 mm
Overhang rear: .....	3400 mm
Angle of approach: .....	7 °
Angle of departure: .....	7 °
Floor height: .....	370 mm
Step height: .....	340 mm
Interior height: .....	2050 mm
Above the rear axle: .....	1970 mm
Empty weight: .....	10600 kg
On front axle: .....	3500 kg
On rear axle: .....	7100 kg
Gross vehicle weight: .....	18500 kg
On front axle: .....	7000 kg
On rear axle: .....	11500 kg
Number of seated passengers: .....	30
Number of standing passengers: .....	68