



# VECTA

## Low on engine emissions – High on Reliability and Comfort

- 45 seated plus 14 standing passenger capacity.
- Advanced aluminium body structure for strength with minimum weight and long operating life.
- Reliability and economy from low emission MAN engine.
- Automatic ZF gearbox with integral retarder.
- Low floor and wide entrance for rapid boarding and ticketing.
- Low cost body repair systems.
- DiPTAC features included with specification throughout.
- Superb handling, and ride comfort with air suspension.
- European standards of seating and interior finish, with low noise levels.
- Comprehensive heating and ventilation.
- Acrylic paintwork for colour retention.
- Extensive U.K. service network.
- Wide range of options.

# OPTARE

MEMBER  
OF THE  
UNITED BUS  
GROUP



MANSTON LANE • LEEDS LS15 8SU • TELEPHONE 0532 645182 • FAX 0532 606635

# VECTA

## MODEL 4530 STAGE CARRIAGE

### CAPACITY

- Up to 45 seated passengers plus 14 standees.
- Vehicle overall dimensions 10m long, 2.5m wide, 3.15m high.

### STRUCTURE AND EXTERIOR

- Aluminium alloy structure, using the technically advanced Alusuisse body system for long life construction.
- Laminated double curvature windscreen providing excellent road vision.
- The driver is seated in an ergonomically designed environment.
- Main roof panel in one piece bonded to the structure.
- The aluminium framing of the bus runs continuously from front to rear, giving a smooth finish for easy cleaning.
- Front and rear bumpers in sections for low cost damage repair.
- All lower panels hinged for maximum accessibility and repair.
- Plywood floor with sound absorption membrane.
- Tinted side and rear windows to improve passenger comfort and acceptability by reducing glare and saloon temperatures.
- Driver's signalling window with sliding sections.
- Acrylic paintwork for colour retention.

### INTERIOR

- Low interior noise levels for passenger comfort.
- Moquette trimmed passenger seats incorporating hand grips.
- Driver's seat moquette trimmed suspension type, fully adjustable.
- The floor is covered with a sealed floor covering with covers to eliminate dirt-traps.
- 35mm textured handrails with colour co-ordinated finish.
- Full height entrance and driver's partition with upper glazed portions.
- Interior roof finished in colour co-ordinated laminates for ease of cleaning.
- Waist to floor finishing in colour co-ordinated laminate panels, for durability, easy cleaning and minimum in-service damage and wear.

- 2 colour patterned safety nosings on steps.
- Step heights (at normal running level) first step 295mm, intermediate steps of 195mm.
- Comprehensive range of seating to suit stage carriage and dual purpose operation.

### SYSTEMS

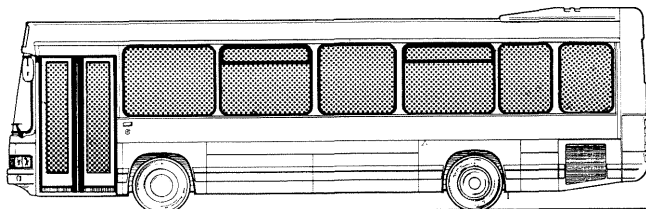
- Saloon heating provided by convection radiation fitted continuously throughout the saloon. Driver activated electrical heating control and thermostat. Separate demisting and cab heating provided by the engine cooling system, fitted with a 3 speed fan and heating control.
- Centralised body and chassis electrical control system for easy fault finding and low cost repairs.
- Wiring looms with multi plug electrical connectors for low cost replacement.
- Electrically powered overarm parked two speed wipers.
- Electrically powered windscreen washers with travelling jets.

### EQUIPMENT

- Reversing bleeper with night time override facility.
- Palm operated bell pushes to stanchions
- Bus stopping sign.
- A wide twin leaf glider entrance door, pneumatic powered and controlled from driver's compartment together with exterior and interior safety controls. Oval section handrails provided on the door for safe, easy entry.
- Driver's hinged cab door with facility for mounting ticket equipment and coin box.
- Fire extinguisher.
- Hopper windows fitted for ventilation, two on each side.
- Front and rear roof marker lights.
- Spray suppressant mud flaps.
- Destination and TRN equipment mounted in the front header.
- Full heavy duty underseal treatment using the Tuff Kote Dinol process.

## MECHANICAL SPECIFICATIONS

Engine	- M.A.N. D0826 T.O.H. 6 cylinder, four-stroke, vertical in-line diesel engine with exhaust-driven turbo-charger and direct fuel injection, developing 137 KW (180 bhp) at 2600 RPM and producing 645 Nm (475 LB FT) at 1,200-1,500 RPM.
Fuel Tank	- 200 litre capacity
Gearbox	- ZF-4HP 500 automatic gearbox with integral retarder activated by brake pedal operation.
Rear Axle	- M.A.N. H07 - 0955 - HOCL, model 3. Low-noise hypoid axle, 4.63:1 ratio.
Front Axle	- M.A.N. V7 - 42L forged rigid axle.
Suspension	- Air suspension with four identical rolling seals, shock absorbers and stabiliser at front and rear.
Gross Vehicle Weight	- 11,500 Kg



Steering	- ZF 8097 recirculating-ball hydro steering with integral power unit and test connection, ratio 21:8:1. Steering wheel dia - 500mm with adjustable height and inclination.
Brakes	- Dual-circuit pneumatic brake in accordance with EEC and ECE regulations. Front axle: Two diaphragm cylinders. Rear axle: Two spring-loaded brake cylinders.
Parking Brake	- Linkageless parking brake acting on wheels of drive axle by means of air operated spring-loaded brake cylinders.
Wheels - Tyres	- 6 x 8-hole disc wheels, 19.5 x 6.75. Tyres 265/70R - 19.5 Tubeless.
Electrical System	- Voltage 24V. 3-phase alternator 28V/120A. Low-maintenance batteries 2 x 12V/140Ah
Instruments/ Gauges/Devices	- Dashboard with electronically operated tachograph, steering column switch for direction indicators, low beam, high beam. Central check lamp for engine control, pressure gauge for brake circuits. Coolant and oil pressure gauges, steering column switch for windscreen wiper/washer system.
Equipment	- Front towing eye. Air drier.

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