

OPTARE



Versa – style and comfort redefined



Versa – taking passenger transport in a whole new direction



As true pioneers of the bus and coach industry, Optare is committed to innovating and developing new concepts in style and functionality, delivering solutions that answer the diverse demands of today's public transport sector.

We know that to stay ahead of the game takes vision, and an ability to identify fresh opportunities in the market place, where we can fill a niche, meet a requirement and satisfy the specific needs of operators and passengers.

It's a uniquely proactive approach. And it's led to us creating the most exciting new departure in mini-bus styling, economy and flexibility for years – the Optare Versa.

Until now operators have had to compromise. If you wanted a longer bus with a heavyweight construction and optimum seating capacity, you invariably had to sacrifice fuel-efficiency and manoeuvrability.

The Versa changes all that. Available in 10.4 and 11.1m lengths, it's a mid-sized bus that gives you the best of both worlds, offering space for up to 40 seats whilst still remaining incredibly agile on the tightest roads.

The wheels are positioned conventionally with a 5.13 metre wheelbase on the 10.4 metre Versa, and a 5.82 metre wheelbase on the 11.1 metre model, so you can negotiate tighter turning circles comfortably. What's more, it's as light as it is speedy, with a low unladen weight ensuring class leading fuel economy.

The Versa's stunning, contemporary design is based on tried, trusted and truly progressive technology. Its striking exterior features a curvaceous front profile, with shaped quarter windows styled to deliver low aerodynamic drag, and LED light units adding a cutting-edge touch to the front and rear.

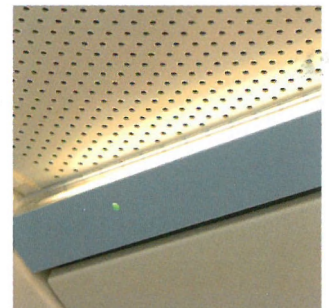
There's also a choice of SCR and EGR Euro 4 engines from Mercedes-Benz, Cummins and MAN. Moreover, whichever engine you choose, you can call on power that's managed through Allison 2100 series automatic transmissions with 'Generation 4' controls.



You'll notice exceptionally low noise levels inside the vehicle too – and the Versa is equipped with Optare's Smoothride suspension system, created specifically to provide passengers with exceptional new standards of travel comfort.

In short, if you're looking for a mid-range bus with real flexibility, economy and style, there's now so much more room for manoeuvre.

Spacious yet uncompromisingly swift, the Versa is a bus that truly breaks the mould.





get the hard facts on easy maintenance

Taking manoeuvrability and economy to exciting new levels, the Optare Versa is a bus that's designed to put you on the road in style – and keep you there.

It beautifully blends an integrated driveline package with a host of long life, low maintenance features, to maximise uptime and help operators reduce running costs.

Its cradle mounted power pack utilises no loss couplings and can be removed, repaired and quickly replaced if major overhaul becomes necessary, so that the vehicle can be put back into revenue service fast. This technology makes it easy to install alternative power systems too, ensuring the Versa is a great investment for the future.

There's also a multiplexed electrical system which allows faults to be checked, located and remedied quickly and easily via a simple lap-top based diagnostic programme. Not to mention Optare's trademark fully integral frame construction in durable stainless steel, which gives it uncompromising strength.

Whatever challenging environments you operate in, you can rely on the Optare Versa. It's taking passenger transport in a whole new direction.



ENGINE

Type	Mercedes-Benz OM904LA, Euro 4, four-cylinder turbo diesel with Selective Catalytic Reduction (SCR) through use of re-agent.
Max Power	115kW (154bhp) @ 2200 rpm (EEC88/195).
Max Torque	610Nm @ 1200 rpm (EEC88/195).
Capacity	4.25 litres.

ENGINE (OPTION)

Type	Cummins ISBe Euro 4, six-cylinder turbo diesel with Selective Catalytic Reduction (SCR) through use of re-agent.
Max Power	150kW (201bhp) @ 2500 rpm (EEC88/195).
Max Torque	750Nm @ 1500 rpm (EEC88/195).
Capacity	5.90 litres.

ENGINE (OPTION)

Type	MAN D0834 Euro 4, four-cylinder turbo diesel with Exhaust Gas Recirculation (EGR).
Max Power	132kW (177bhp) @ 2400 rpm (EEC 88/195).
Max Torque	700Nm @ 1600 rpm.
Capacity	4.58 litres.

ENGINE COOLING

Left-hand rear "side by side" mounted radiator and intercooler with separate coolant header tank. Hydraulically driven, thermostatically and proportionally controlled cooling fan.

TRANSMISSION

Allison 2100 series, five speed fully automatic featuring full CAN electronic interface with engine, integral oil filtration system and lockup torque converter in gears 3, 4 & 5 for improved fuel economy.

RETARDER

Klam electro-magnetic retarder automatically actuated through brake pedal providing minimal maintenance, smoother retardation, lower power consumption and greater reliability. Features Pulse Width Modulation (PWM), based on solid-state controls. CAN Bus interface with multiplexed control, continuous electronic and temperature monitoring and laptop based diagnostic facility.

SERVICEABILITY

Engine, gearbox, cooling, induction and exhaust system fitted to demountable frame. Services fitted with "no-loss" couplings for rapid removal.

AXLES & SUSPENSION

Front	DANA NDS 41, 2-bag air suspension with leading taper leaf springs and Panhard rod. 54° backlock.
Rear	DANA 08.18 single reduction hypoid, 4.11:1 ratio, 4-bag air suspension on parallel linkage anti roll bar.
Max Speed	59mph maximum set speed with optional speed limitation.

STEERING

Type	ZF 8090 steering gear with integral power assistance. Steering column adjustable for rake and reach.
------	---

WHEELS & TYRES

Wheels	19.5 x 6.75 x 133mm offset wheels eight stud.
Tyres	245/70R x 19.5 tubeless.

BRAKE SYSTEM

Service	Wabco PAN17 dual circuit air disc brakes with non-asbestos linings and Anti-lock Braking System.
Parking brake	Air released, spring actuated parking brake on rear wheels.
Air dryer	With heated element.

FUEL TANK

Nominal 200-litre side fill tank located beneath driver's seat.
Nominal 20-litre rear fill re-agent tank (SCR engines only).

ELECTRICS

Type	Multiplex electrical system with diagnostic facility.
Voltage	24 volt.
Batteries	2 x 12 volt 135 amp hour, maintenance free.
Alternator	28V x 100 amp output.

STRUCTURE

All welded heavy-duty box section integral construction using a combination of stainless and high-grade carbon steel to effect a long life.

Anti-rust protection system applied to exposed structural components with cavity wax injection in specified areas.

Heavy-duty underseal treatment using the Dinol process.

EXTERIOR

Modular design front and rear GRP panels for low cost replacement.

Side panels locked into rail section and retained by screw fasteners for ease of replacement.

One-piece gasket glazed windscreen with bonded quarter windows.

Driver's signal window with sliding section.

Tinted, curved single glazed saloon side windows bonded to vehicle frame.

INTERIOR

Moquette trimmed individual passenger seats with tubular steel frames and ABS backs.

Wheelchair bay incorporating backrest and gangway stanchion.

Manual fold out wheelchair ramp.

Fully adjustable driver's seat.

Heavy duty, sealed, slip-resistant floor covering system and flush fitting step nosings with yellow inserts, colour contrasting with floor covering.

35mm diameter smooth tube, track-mounted handrails with colour co-ordinated finish.

Easy clean, vacuum formed ABS profiles at windows and cove panels with perforated, noise reducing centre roof panel.

HEATING & VENTILATION

Blown, recirculating warm air heating system from front and rear for passenger comfort.

Two speed high-powered windscreen demister with driver's compartment heating facility.

Hopper windows for passenger area ventilation. Quantity varies according to length of vehicle.

EQUIPMENT

Palm operated, contrasting bell pushes together with "stopping" sign.

Flush fitting, twin-leaf glider entrance door with full-length bonded glazing, electro-pneumatic operated with exterior and interior safety controls.

Moulded driver's compartment for durability and ease of cleaning.

Compact modular rear lamps.

Manually operated destination and triple route number equipment mounted in front header.

Manually operated side destination and route number equipment mounted to top of first nearside window bay.

Manually operated route number equipment fitted behind rear window.

Twin halogen, high intensity front driving lamps.

Reversing horn with night-time override facility.

SYSTEMS

Centralised, fully multiplexed electrical system for quick, easy fault finding through diagnostics facility.

Electrically powered horizontal parking windscreen wipers with 2 speeds, plus intermittent.

Modular interior saloon lighting running continuously from front to rear on both sides for even light distribution. Each side separately switched providing dual level facility.

INSTRUMENT PANEL

Low maintenance, easy clean LED drivers instrumentation with "secret until lit" warning and information panel.

Easy clean, soft touch, tactile switch membrane for vehicle systems.

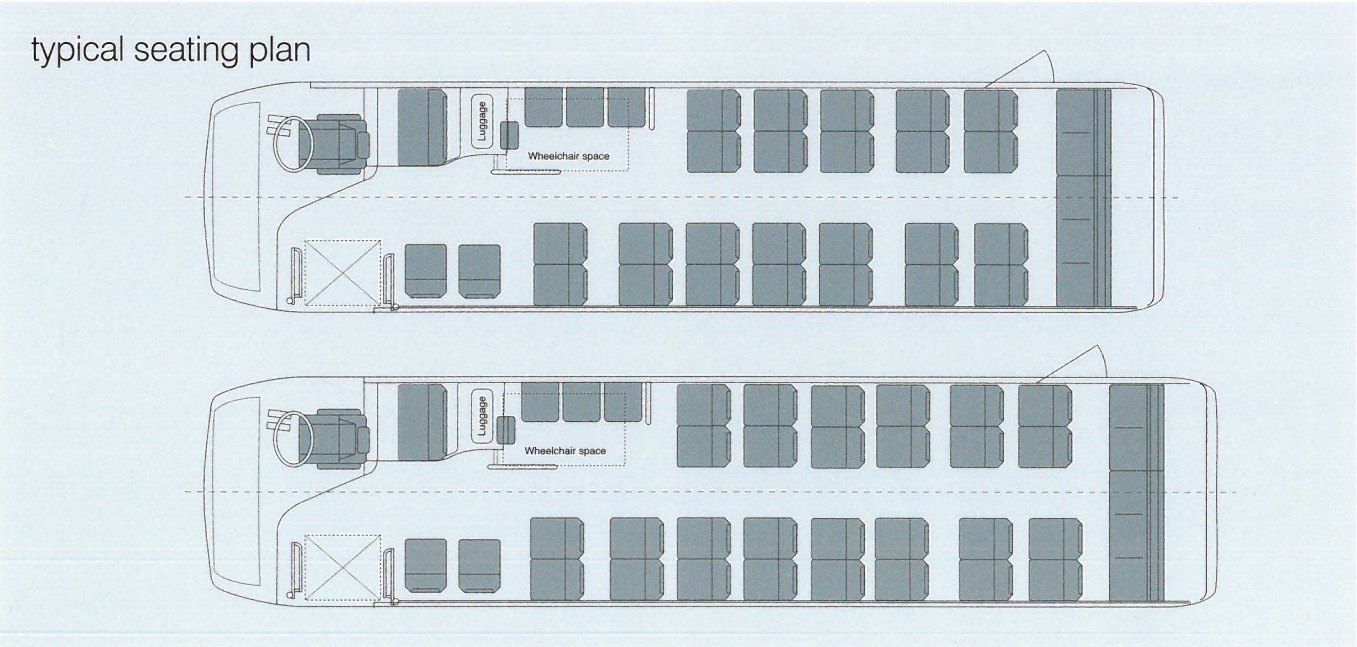
Gauges: speedometer, water temperature, air pressure, oil pressure, re-agent (SCR engines only). Optional fuel gauge.

Audible warnings for low air pressure, low coolant level, low oil pressure, alternator failure, transmission in gear with handbrake engaged, emergency door open.

CAPACITIES, WEIGHTS AND MEASUREMENTS		
MODEL REFERENCE	V1040	V1110
Seating/Standing	36/21*	40/23*
Overall length (mm)	10395	11085
Overall width (mm)	2506	
Overall height (mm)	2836	
Wheelbase (mm)	5130	5820
Front overhang (mm)	2695	
Rear overhang (mm)	2570	
Entrance step height – normal/knelt (mm)	318/245	
Turning radius (mm) – between kerbs	8044	9106
Gross vehicle weight – design/plated (kg)	12000/12000	
Front axle weight – design/plated (kg)	4500/4500	
Rear axle weight – design/plated (kg)	8000/8000	

* Capacities are subject to overall vehicle weight, which may be affected by optional equipment specified.

This document reflects the standard base models only. A wide range of alternative seating configurations and optional equipment can be accommodated. Please contact us for further information.



Unitec gives you easy access to total peace of mind



Optare's philosophy of providing customers with a complete package of services is unique in the British bus industry. And through Unitec – a wholly owned division of Optare – we offer a market leading parts and service capability.

A key focus of the Unitec division is to provide the operator with a rapid response to service and maintenance support issues. At our fully equipped and conveniently located Rotherham and London service centres, we'll provide all the repairs, servicing, maintenance and refurbishments you need.



In addition, Unitec's team of field-based, fully trained and equipped mobile Service Technicians are ready to attend premises to assist in providing national support for an ever increasing customer base.

Our central parts operation in Rotherham has more than 40,000 product lines. This extensive inventory of genuine parts and our 'Pickomat' warehouse system gives us the technology to guarantee quality and excellent "first time pick" levels. We've also applied technology to our new online parts information and ordering service, which you can access at www.unitecexpressway.co.uk.

The service allows you to view parts before you order to ensure the correct selection and offers alternatives for our stock or obsolete parts. If you don't have a part number, you can click on the relevant part in our exploded diagrams.

Unitec online parts ordering makes getting hold of the parts you need quicker and easier – but, however you order, we'll ensure that UK mainland deliveries are made the next day.

Unitec's scheduled maintenance and inspection programme is designed to ensure complete peace of mind – giving you a dependable fleet and helping you to comply with your operator's license requirements. And as daily operation takes its toll on your vehicle's condition, even if it wasn't built by Optare, our mechanical overhaul and complete refurbishment services can extend its working life for significantly less than the cost of a replacement.

Should you require warranty support, our Speedline assistance service is just one phone call away. Freephone 0800 028 5626 for all the help you need to get your vehicle back on the road as quickly as possible.

