

A RELIABLE PARTNER THAT ENABLES PROFIT



**BHARATBENZ 12M
COACH - CHASSIS**



BHARATBENZ

DRIVE YOUR SUCCESS STORY

The BharatBenz 1623 Coach Chassis is designed to drive you towards higher profits. Loaded with glide air suspension on front and rear, it guarantees comfortable rides over long routes. With high uptime, extended service intervals, proven economical driveline and superior durability, the reliable BharatBenz 12M Chassis enables uninterrupted intercity travel at its profitable fullest.



COMMUTE IN COMFORT

Delivering superior ride quality is always a top priority for BharatBenz. The BharatBenz 1623 Coach Chassis ensures that its passengers have a hassle-free commute every time.

Ride that glides

The BharatBenz 1623 Coach Chassis delivers a smooth ride for both its driver and passengers. The chassis is equipped with front and rear glide air suspensions.

The front suspension comprises of two air bellows and the rear suspension comprises of four air bellows, each supported by two hydraulic shock absorbers on both sides. The longitudinal stabilisers, torsion bar, anti-roll bar, levelling rods and fine-tuned shock absorbers are integrated together, to provide excellent ride comfort and stability to both the driver and passengers.



The glide experience is also easy on your pockets as fewer number of moving parts reduces the number of points of greasing, thereby lowering the maintenance costs.

LOADED WITH IN-BUILT RELIABILITY & DURABILITY

Every BharatBenz chassis is sturdily built to ensure best-in-class reliability and durability. The uncompromising values and abundance of advanced German engineering makes every BharatBenz chassis, a dependable companion.

Unique chassis design

The unique and highly durable design of the BharatBenz 1623 coach chassis with its powder-coated frame ensures longer rust-free life.

The chassis has been integrated using alligator type cross members which provides higher rigidity and strength.



Intelligent retarder (optional)

Electromagnetic retarder utilising CAN communication (Controller Area Network) can be operated with the help of a lever and brake pedal. Combined with iRCS technology, the retarder helps in improving the life of the brake pads and driveline components.



Effective braking

The BharatBenz 1623 Coach Chassis has wider brakes (410 mm X 220 mm) with 24 percent higher braking surface area. High system pressure (10 bar) and bigger brake chambers ensure effective braking. This provides longer life to the brake liners and improves its heat dissipation capability. The auxiliary brakes (engine and exhaust) add to the effectiveness of the brakes and therefore, increase the lifespan of the brake liners.



EXPERIENCE EFFORTLESS DRIVING

The BharatBenz 1623 Coach Chassis comes with a wide chassis frame width and tubeless radial tyres that enhance the stability of the vehicle during high-speed cornering. The front and rear anti-roll bars result in improved cornering, better handling and stability. Higher wheel lock angle offers lower turning circle diameter to effortlessly navigate turns and bends.

Engine

Model	OM906
Capacity / Displacement	6373 cc
Maximum Power	235 hp (175kW) @ 2200 rpm
Maximum Torque	850Nm @ 1200-1600 rpm
Fuel Injection Pump	ECU controlled, Unit Pumps

Gearbox

Model	G85, 6 speed
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Clutch

Type	395 mm dia, Single plate type
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Brakes

Brakes	Pneumatic, with automatic slack adjuster
Auxiliary Brake	Engine brake + Exhaust brake + Retarder (Optional)

Axles

Front Axle	IF6.6, Reverse elliot type
Rear Axle	IR440, Single Speed, Hypoid drive

Suspension

Front Suspension	Air suspension with 2 air bellows
Rear Suspension	Air suspension with 4 air bellows
Anti Roll Bar	Both in front & rear

Fuel System

Fuel Tank Capacity	355 litres
AdBlue Tank Capacity	50 litres

Tyres

Tyre Size	295/80 R22.5
Wheel Rim	8.25" x 22.5"

Steering

Type	Power steering, adjustable and tiltable
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Electricals

Battery	2x 12V, 200Ah
Alternator	100 Amps (2 nos.)

Dimensions

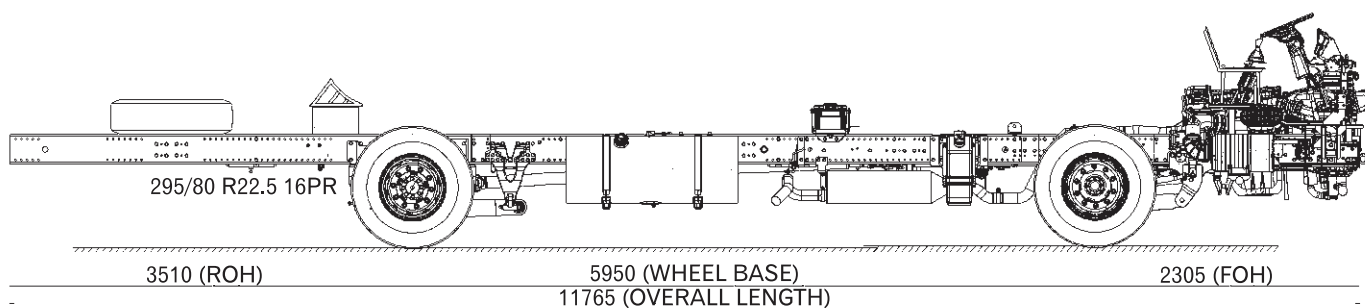
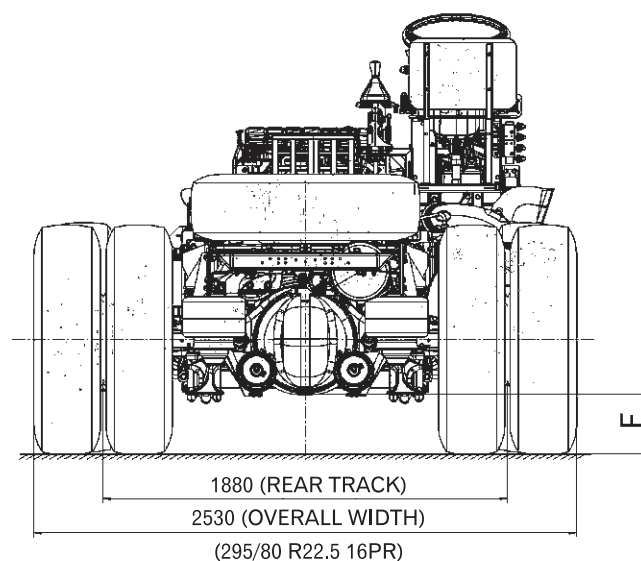
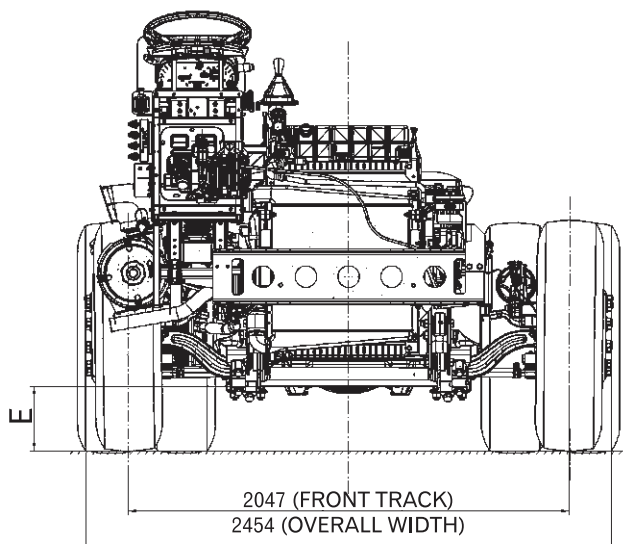
Frame Dimensions	255 mm x 73.5 mm x 7 mm
Wheel Base	5950 mm
Overall Length	11765 mm
Chassis Width	2530 mm
Front Overhang	2305 mm
Rear Overhang	3510 mm

Performance

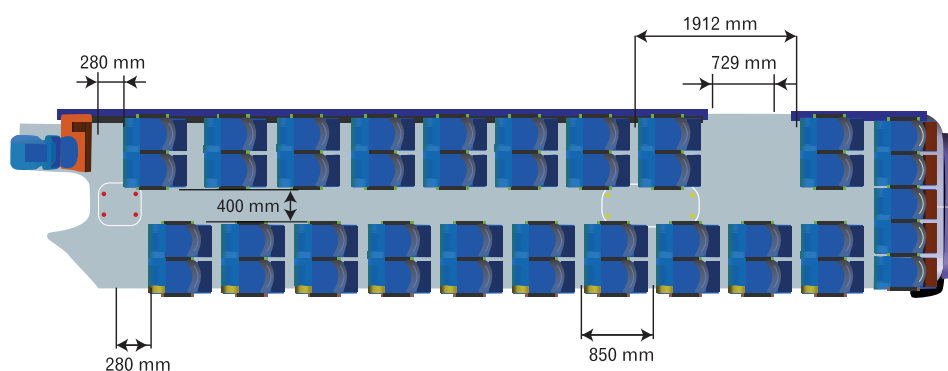
Restart Gradeability	20 percent
Min Turning Circle Diameter (TCD)	19.6 m
Min Ground Clearance	239 mm
Max Permissible Legal GVW (kgs)	16200 kg

Oil Change Intervals

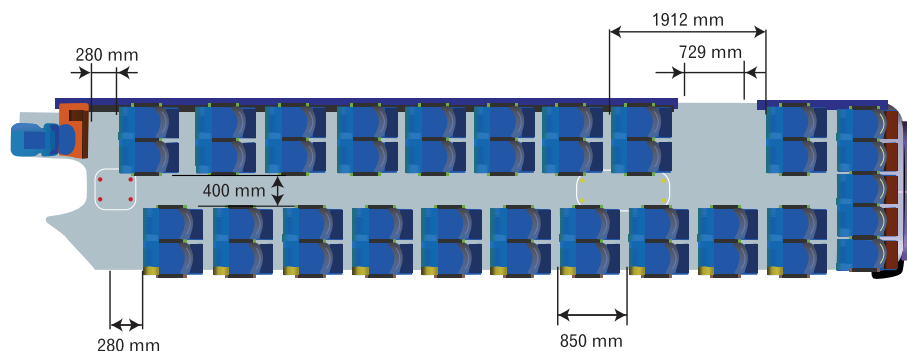
Engine Oil Change	100,000 km	Front Axle Hub Greasing	100,000 km
Rear Axle Oil Change	150,000 km	Rear Drive Axle Hub Greasing	100,000 km



Proposed seat layout



43 Pushback seats
without calf support



39 Pushback seats
with calf support

COMMITTED FOR THE LONG HAUL

BharatBenz is committed to transforming Indian bus transportation. Our rigorous study of the conditions has enabled us to build a coach ready to take on the challenges posed by Indian terrains and businesses, head on. Our state-of-the-art manufacturing plant in Chennai is only one of the many steps in our journey on Indian roads.



Designed to deliver



- One Stop Service Workshop: Guaranteed service support any time of the day.
- Highly Productive Express Bays: Roadside assistance for any quick fixes your BharatBenz coach requires, helping you save precious time.
- Specialist Driver Trainers: Expert trainers who will help your driver learn efficient and safe driving.
- Advanced diagnostic systems: To aid in troubleshooting and eliminating unforeseen problems.
- Dial a service or part: Call up to book a service or to ensure the availability of any part.

- Maintenance Pack that will take care of all maintenance-related needs for the next 5 years.
- Extended Warranty to ensure high-cost aggregate repairs will be the least of your concerns for up to 5 years.
- BharatBenz Insurance: a cashless facility with towing and zero-depreciation features to ensure quick repairs anywhere in India.

Stay a step ahead



Ascent

Experienced expertise



- Highly skilled service staff to ensure quick and perfect service every time.
- Online technical information platform – Ascent (After Sales Central) a multilingual, animated system to facilitate information access at all service centres.
- Mobile service workshops to ensure reach within 4 hours in case of emergency.
- Exclusive 24x7 customer support and technical hotline for all service needs.
- Customised on-site service support to ensure high uptime.

Warranty

The BharatBenz 1623 Coach Chassis has best-in-class warranty of 3 years or 4 lakh kilometres, whichever is earlier, on both the chassis and driveline. Warranty extension is also available.

Annual maintenance contract

Comprehensive AMC packages, available for up to 5 years, assures you peace of mind.

Call on our toll-free no.: 180030012345 or email us at dicy_service@daimler.com

SHIFT GEARS TO UNBEATABLE PERFORMANCE

Powered by the proven OM 906 engine, the BharatBenz 1623 Coach Chassis delivers superior performance coupled with maximum efficiency.

Unmatched fuel economy and performance

With an intelligent ECU controlling the engine and low and flat torque, the BharatBenz 1623 Coach Chassis delivers unmatched fuel efficiency. The engine brake, exhaust brake, waste gate turbocharger, Electronic Unit Pumps (EUP) and ECU controlled injectors further enhance the fuel efficient characteristics of the chassis. The overdrive gear provides lower engine RPM while driving on highways, further improving fuel efficiency.

The 175kW BSIV proven engine with maximum torque of 850 Nm ensures that the BharatBenz 1623 Coach Chassis is never short on power. High performing air compressor meets the air requirements of suspension, brakes and other bus body auxiliary parts.



Geared for high performance

The BharatBenz 1623 Coach Chassis is armed with a G85, 6-speed gearbox which provides best-in-class input torque handling capacity and promises a high re-start gradeability. Combined with the advanced engine, it guarantees higher fuel savings.

The aluminium alloy gearbox housing ensures better heat dissipation and grounded gears help avoid pitting of the gear tooth, increasing the overall life of the gearbox. Cable shift mechanism helps in smoother gear shifting.

World-class dealerships across India



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