

BHARAT⁴

**DISCOVER
THE POWER OF
TECHNOLOGY.**

— THE ALL NEW —
**BHARATBENZ HEAVY DUTY
TRACTORS**



POWERED BY
PROFIT
TECHNOLOGY



BHARATBENZ

BOOST YOUR PROFITS HEAVY DUTY

BharatBenz, global pioneers in technology, bring you tractors powered by Profit Technology. Our tractors strike the perfect balance between cutting-edge world class technology and a rugged build that is perfectly suited to Indian conditions. The all new BharatBenz heavy duty tractors are powerful workhorses built to maximise your profitability.



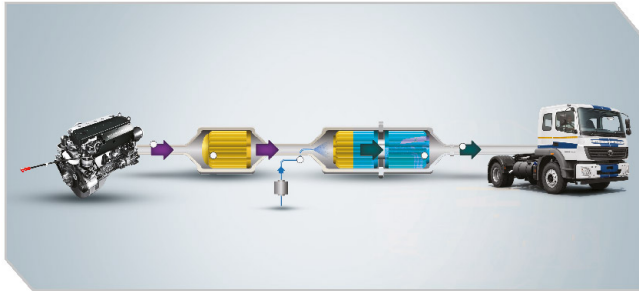
WITH BHARATBENZ TRACTORS

Built with superior SCR technology these tractors offer you unmatched fuel efficiency. Their superior power, gradeability and torque make them capable of handling any work and terrain. Their higher uptime, superior comfort & safety features, reliability and durability ensure that your tractors spend maximum time on the road. With these low maintenance tractors at your disposal, your enterprise is bound to scale new heights.



THE NEW FUEL EFFICIENCY BENCHMARK.

BharatBenz heavy duty tractors have set a fuel efficiency benchmark that surpasses the record held by our previous generation. Its efficient engine combined with advanced engineering ensures the best mileage. Such superior mileage will bring down the cost of each trip and help you earn more.



Selective catalytic reduction (SCR)

SELECTIVE CATALYTIC REDUCTION (SCR) BSIV TECHNOLOGY

SCR is an advanced emission technology that injects AdBlue into the exhaust gases emitted while the tractor is in operation. AdBlue is a high quality urea solution that reduces emission of nitrogen oxide. Used by most of the global manufacturers, SCR is considered as one of the world's most fuel efficient and profitable BSIV technologies.

UNITISED FUEL INJECTION PUMP

6 individual fuel pumps, one for each cylinder, inject precise quantity of fuel at a high pressure of 1800 bar. This ensures better combustion of fuel, delivering unmatched fuel efficiency.

FLAT TORQUE CURVE

Peak torque is available over a wide range of engine speeds and high torque is available even at lower engine speeds. This reduces the need for frequent gear shifts and improves fuel efficiency.

Model	Peak torque	Flat torque range
4023 tractor	850 Nm	1200 – 1600 rpm
4928 tractor	1120 Nm	1200 – 1600 rpm



Aerodynamic cabin design

AERODYNAMIC CABIN DESIGN

The cabin design ensures lower aerodynamic resistance which helps maintain the momentum of the vehicle while burning less fuel.

VARIABLE GREEN BAND

Variable green band (for engine rpm) in the instrument cluster intelligently senses the optimal operating band for the vehicle and gives constant indication to the driver about economical driving. This ensures that the vehicle operates in the most fuel efficient rpm range and is driven at the right speed and gear.



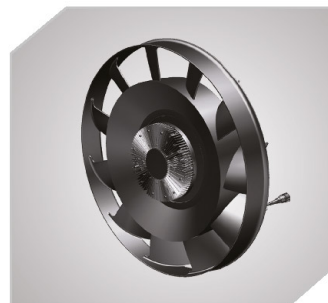
Variable green band



Constant throttle valve engine brake

CONSTANT THROTTLE VALVE ENGINE BRAKE

A constant throttle valve in the engine bypasses compressed air when the engine brake is on. The Electronic Control Unit (ECU) senses this and cuts fuel injection into the engine. This not only saves the engine from overrunning, but also saves fuel while the BharatBenz heavy duty tractors run with its exhaust brake activated.



E-Viscous Fan

E-VISCIOUS FAN

The high performance engine can be cooled as and when required by the Electronic Control Unit (ECU) with the help of the Smart fan, which ensures unmatched cooling efficiency.

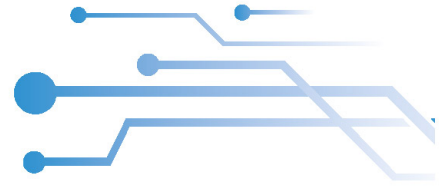
TUBELESS TYRES WITH STEEL RIMS

The single part-tyre weighs less offering lower rolling resistance and thereby ensuring lower fuel consumption. As there is no tube, they are light in weight and have low surface resistance, this in turn leads to less fuel consumption.

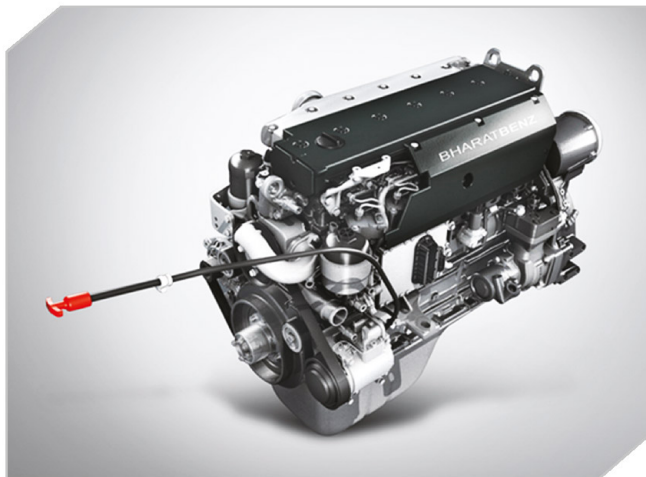
HIGH BOOST PRESSURE TURBO CHARGER

With its reduced area, the updated turbo charger design with 1.8 bar boost pressure allows more air through the air inlet, increasing airflow at significantly lower rpm, which further boosts the fuel efficiency of the BharatBenz heavy duty tractors.

UNMATCHED UPTIME. RUGGED BUILD.



The BharatBenz heavy duty tractors are meant for hard work in tough conditions. To deliver under such harsh conditions, each component of these tractors have been designed and incorporated with meticulous care. Our highly reliable and durable tractors will always be on the move, guaranteeing maximum asset utilisation.



Engine

ENGINE

BharatBenz engines are designed for higher efficiency and longer life. Its fuel injection system comprises of 6 independent unitised injection pumps lubricated by engine oil, thus enhancing its durability. Other features like inductive hardening at crankshaft journals, noise optimal crankcase and Electronic Control Unit enhance the reliability of the engine.

CLUTCH

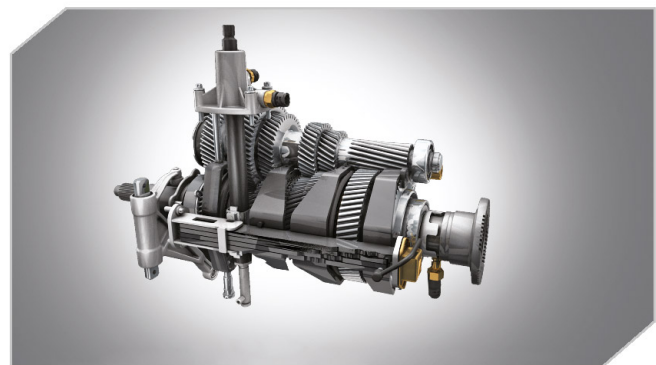
BharatBenz heavy duty tractors have a large clutch plate diameter of 430 mm. This ensures more contact area for better power transmission and lower slippage. Also, a higher wear depth of 3.5 mm results in longer life and less maintenance.

CHASSIS

Higher frame thickness of 9 mm, flange width of 70 mm and web height of 288 mm along with full depth cross member provide chassis stiffness, improving vehicle stability and load bearing ability. The robust and durable frame of the chassis is shot-blasted and powder-coated to increase corrosion resistance and make it long-lasting.

REAR AXLE

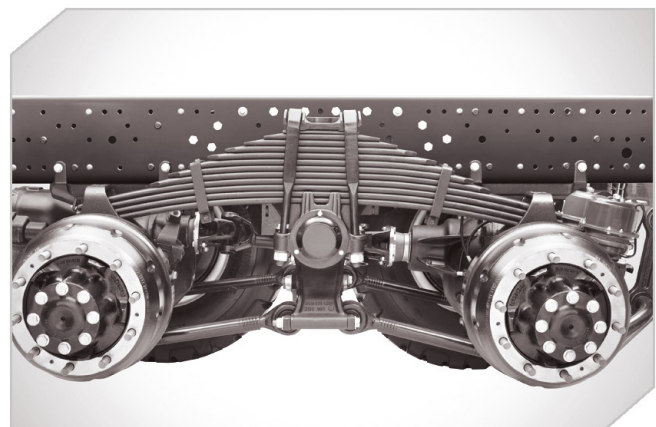
It is a heavy duty banjo type axle which ensures strength and durability. The large face width of the crown wheel allows more contact area which ensures longer life. Low reduction ratio enables lower torque step down, again increasing life of the crown wheel and pinion.



Gearbox

GEARBOX

Our tractors come with gearboxes optimised to deliver flat torque, ensuring there is no loss of time during gearshift. The strong and durable gearbox has a higher centre distance of 142 mm between main shaft and counter shaft. This provides for bigger and stronger gears with more contact area, thus increasing gear life.



Rear suspension for 4928T

REAR SUSPENSION

BharatBenz 40 tonne tractors have a heavy duty balancer type rear suspension that helps to transfer higher reaction on the drive axle, ensuring better traction and hence minimal slippage. The 49 tonne tractors have been provided with multi leaf tandem bogie suspension that improves stability and load carrying ability of the vehicle. Both these types of suspensions also have lesser number of moving parts, offering better reliability. Front anti-roll bar comes as a standard fitment and it ensures better road grip for increased stability.

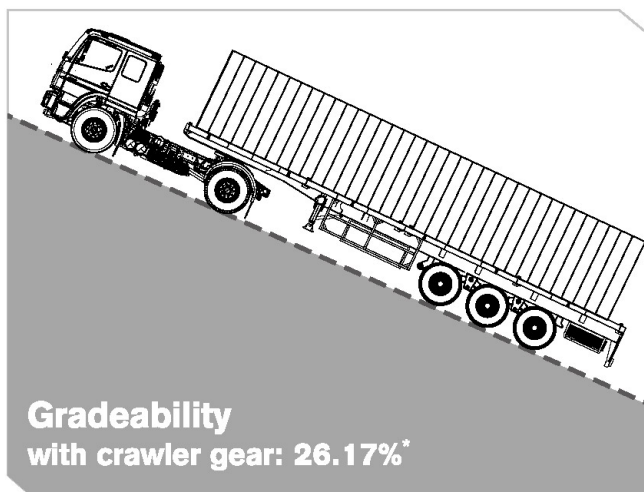
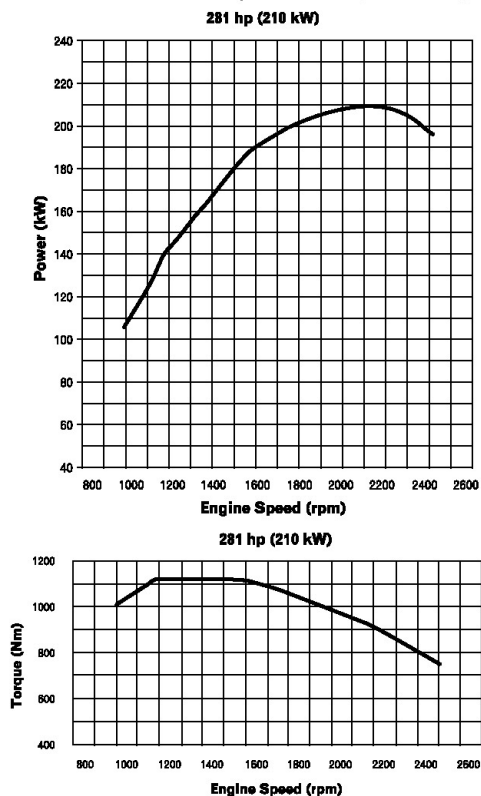
ENGINEERED TO CONQUER ANY TERRAIN.

Equipped with a host of advanced features, our tractors can easily negotiate sharp turns, lofty hills and narrow roads.

POWER

Based on insights into usage patterns across India, we've integrated several features that ensure unmatched performance. BharatBenz heavy duty tractors give higher power with optimal fuel economy, to enable you to maximise your revenues. Faster turnaround times and more trips in a year are the direct results of more power.

Power and Torque Curves (for 4928T)

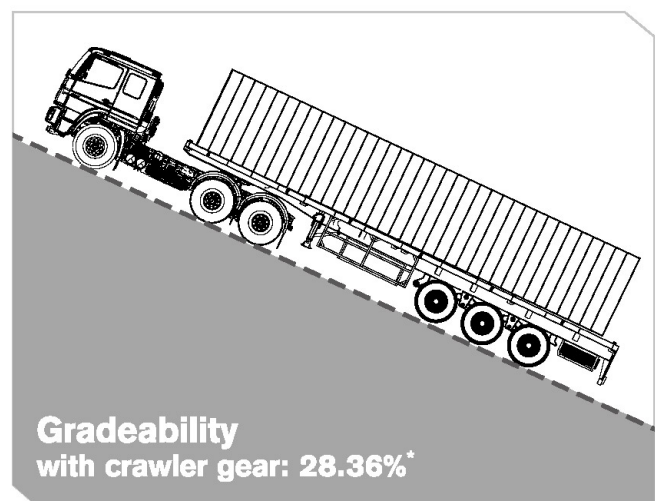
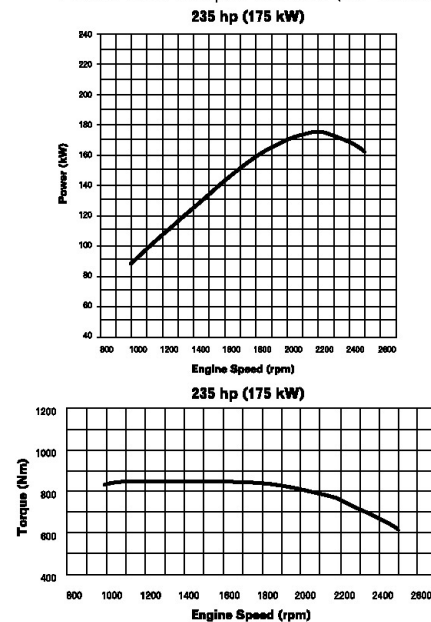


*In 4023 tractor

PICKUP

With additional 40 Nm torque, the engines powering the BharatBenz heavy duty tractors ensure better pickup and smoother acceleration. This is essential in city operations or in start-stop traffic conditions encountered while entering any major urban centre. Trips can be completed in lesser time resulting in more trips and more revenue.

Power and Torque Curves (for 4023T)



*In 4928 tractor

GRADEABILITY

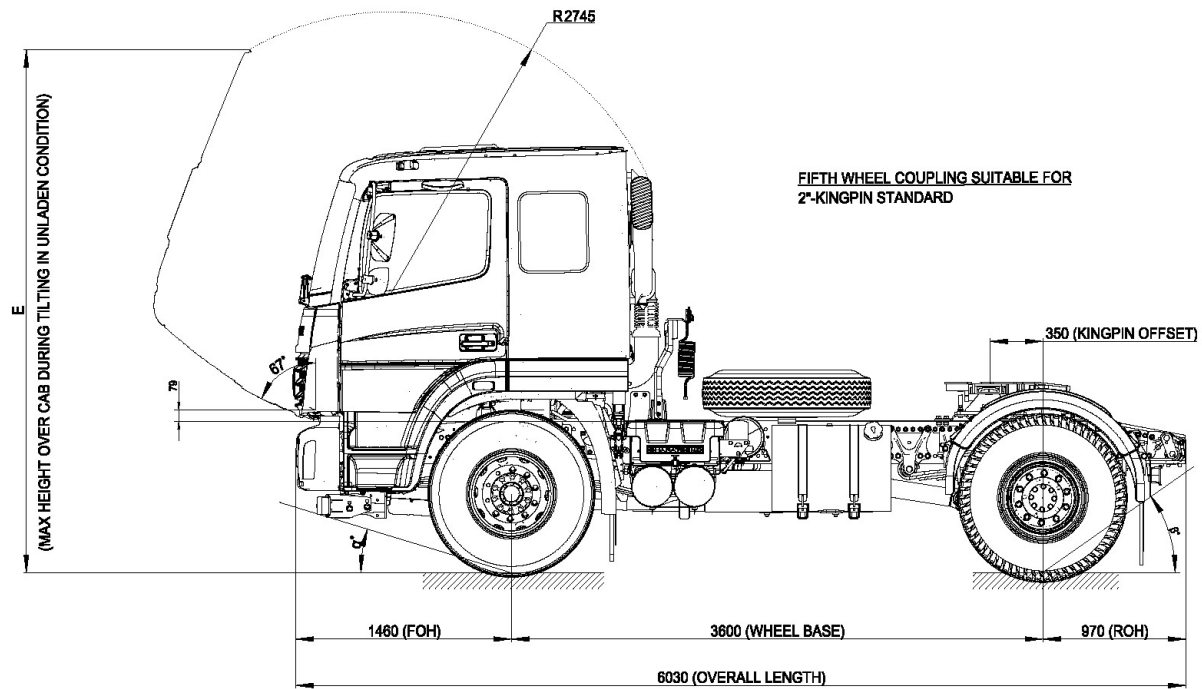
The true test of a tractor's performance lies in its ability to negotiate hilly terrain and its load-carrying capacity. A much higher power to weight ratio gives BharatBenz tractors outstanding gradeability, enabling them to effortlessly navigate the most hostile road conditions and easily climb gradients even with full load.



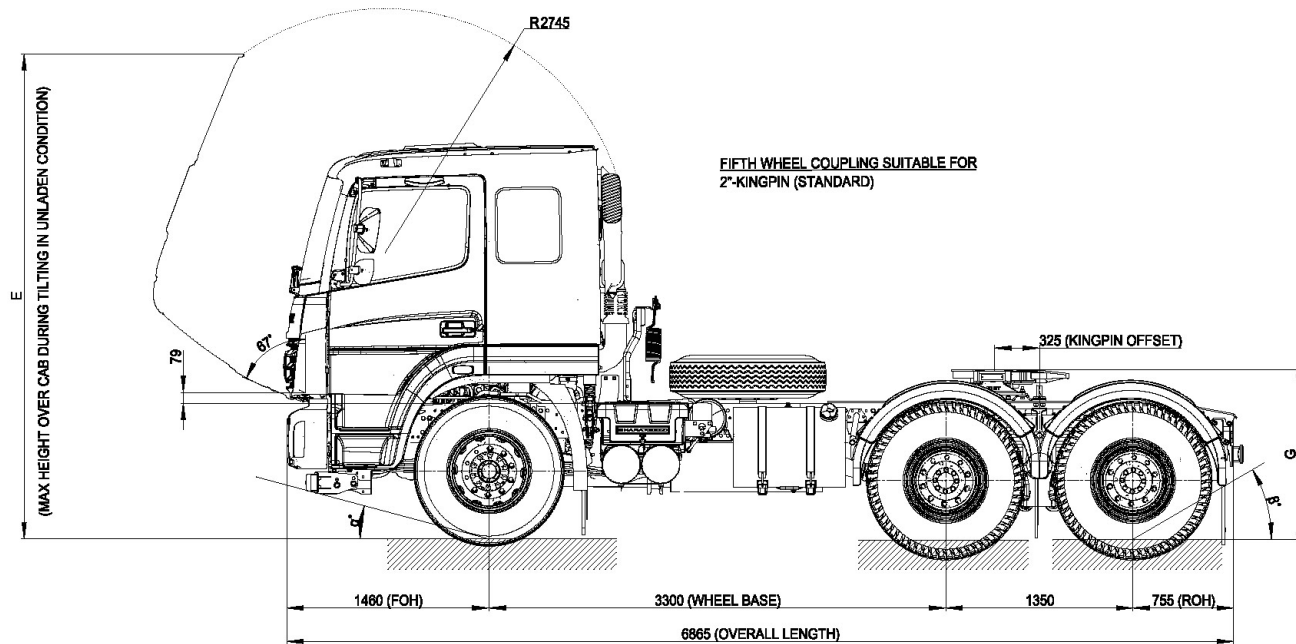
All black interiors



Cubic printed dashboard



4023T



4928T

Technical Specifications

4023T (4x2)

4928T (6x4)

Dimensions (mm)

Wheel Base	3600	3975
Overall Length	6040	6865
Overall Width	2490	2490
Overall Height	2960	2975
Front Overhang	1460	1460
Rear Overhang	980	755
Minimum Ground Clearance	264	264

Weight

Gross Combination Weight	40,200 kg	49,000 kg
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Engine

Model	DE175BS4	DE210BS4
Maximum power	175 kW (235 hp) @ 2200 rpm	210 kW (281 hp) @ 2200 rpm
Maximum torque	850 Nm @ 1200 - 1600 rpm	1120 Nm @ 1200 - 1600 rpm
No. of cylinders, Displacement	6 Nos., 6372 cc	6 Nos., 6372 cc
Emission Compliance	BSIV	BSIV

Gearbox

Model, Type	G 131, 9F + 1R, Mechanical, Synchromesh Gears	G 131, 9F + 1R, Mechanical, Synchromesh Gears
Clutch Type, Diameter	Single dry plate, Hydraulic control with clutch booster, 430 mm	Single dry plate, Hydraulic control with clutch booster, 430 mm

Axle

Front Axle Model, Type	Reverse Elliot Type	Reverse Elliot Type
Rear Axle Model, Type	IR440, Fully floating, Single reduction hypoid drive with differential lock	IR390, Fully floating, Single reduction hypoid drive with differential lock
Differential Ratio	4.778	4.778

Chassis frame & Suspension

Chassis Type	Channel Section with cross members	Channel Section with cross members
Depth x Flange Width x Thickness	288 mm x 70 mm x 9 mm	288 mm x 70 mm x 9 mm
Front Suspension	Parabolic type leaf spring with shock absorbers	Parabolic type leaf spring with shock absorbers
Rear Suspension	Semi-elliptic multi-leaf with auxiliary springs	Inverted semi-elliptic (Tandem Bogie)
Anti-roll Bar	In front only	In front only

Brake & Tyres

Service Brake	Pneumatic, Foot operated, Dual line with ABS	Pneumatic, Foot operated, Dual line with ABS
Parking Brake	Pneumatically operated hand control valve	Pneumatically operated hand control valve
Wheel Rims & Tyres	8.25" x 22.5" & 295/80R 22.5 16PR	8.25" x 22.5" & 295/80R 22.5 16PR

Steering & Cabin

Steering Type	Hydraulic power assisted	Hydraulic power assisted
Cabin	Sleeper cabin with berth, Tilttable	Sleeper Cabin with Berth, Tilttable

Fuel tank & Electricals

Fuel Tank	290 litres + 200 litres (Additional tank)	290 litres + 200 litres (Additional tank)
AdBlue Tank	60 litres	60 litres
Voltage	24 V Electrical system	24 V Electrical system
Battery Capacity	2 x 12 V, 120 Ah	2 x 12 V, 120 Ah

Performance

Maximum Gradeability	26.17%	28.36%
Maximum Geared Speed	80 km/h	80 km/h
Minimum Turning Circle Diameter	13.1 m	16.1 m

Configuration

Option packs	Comfort pack (HVAC)	Comfort pack (HVAC)
Colour option	Golden brown & Arctic white	Golden brown & Arctic white



ONE STOP TRUCKING SOLUTION.

BharatBenz is committed to Indian trucking. Our rigorous study of the conditions has enabled us to build tractors ready to take on the challenges of the Indian terrain 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.

PROSERV

SERVICE THAT LOOKS AHEAD FOR YOU

DESIGNED TO DELIVER



- One Stop Service Workshop: Guaranteed service support any time of the day.
- High Productive Express Bays: Roadside assistance for all the quick fixes your BharatBenz tractor 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.

EXPERIENCE 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.

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

STAY A STEP AHEAD



Ascent

- 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.

BHARATBENZ Financial



- Structured EMI payback options customised to suit your business's cashflow.
- Innovative "All in One EMI" provides a fully integrated financing solution for the vehicle, maintenance pack, insurance and extended warranty.
- 24x7 customer support to provide hassle-free claims management across India.

We understand what your business means to you. We know how important your commitments are to you. Which is why, we spared no effort. We made it our mission to give the Indian businessman a tractor he truly deserves. A tractor that goes beyond the machine. A complete trucking experience.

BharatBenz heavy duty tractors are powered by Profit Technology. This arms the tractors with preventive maintenance features and state-of-the-art proactive services to create a trucking experience that transcends all expectations. It will widen your area of operations in the most fuel-efficient manner. In essence, it will keep working for your business despite numerous challenges and earn you profits. Add to that, your business operations will be synonymous with timely deliveries. Your drivers will enjoy enhanced productivity and take pride in operating such a driver-friendly vehicle.

The BharatBenz heavy duty tractors will keep working for your business without ever needing a break. Every trip will be profitable. And you will reap the benefits of having the lowest total cost of business operations. So embrace the power of Profit Technology as you drive and experience the reliable and fuel efficient BharatBenz tractors.



BHARATBENZ
Power Ahead

Daimler India Commercial Vehicles Pvt. Ltd.

SIPCOT Industrial Growth Centre, Oragadam,

Mathur Post, Sriperumbudur Taluk,

Kancheepuram District - 602105, Tamil Nadu, India.

Ph: +91 44 49694000; Fax: +91 44 49694881

Email: sales_dicv@daimler.com; Website: www.bharatbenz.com

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