

TATA MOTORS KA BHAROSA RAHE AAPKE SAATH HAR KADAM



Terms & Conditions apply

TATA MOTORS

For more information, please visit our website: www.tatatrucks.tatamotors.com

You can also contact our Sales Office: Tata Motors Limited, 4th Floor, Ahura Centre, 82, Mahakali Caves Road, MIDC, Andheri (East), Mumbai - 400 093 or call toll-free no. 1800 209 7979.

Terms & Conditions apply as per the policy of ITGI. Insurance available on light, intermediate & heavy commercial vehicles.

CAUTION: Accessories shown in the picture or elsewhere do not constitute standard fitment.

The specifications are merely indicative. Due to continuous product improvements, these specifications are liable to change without notice.

TATA MOTORS
Connecting Aspirations



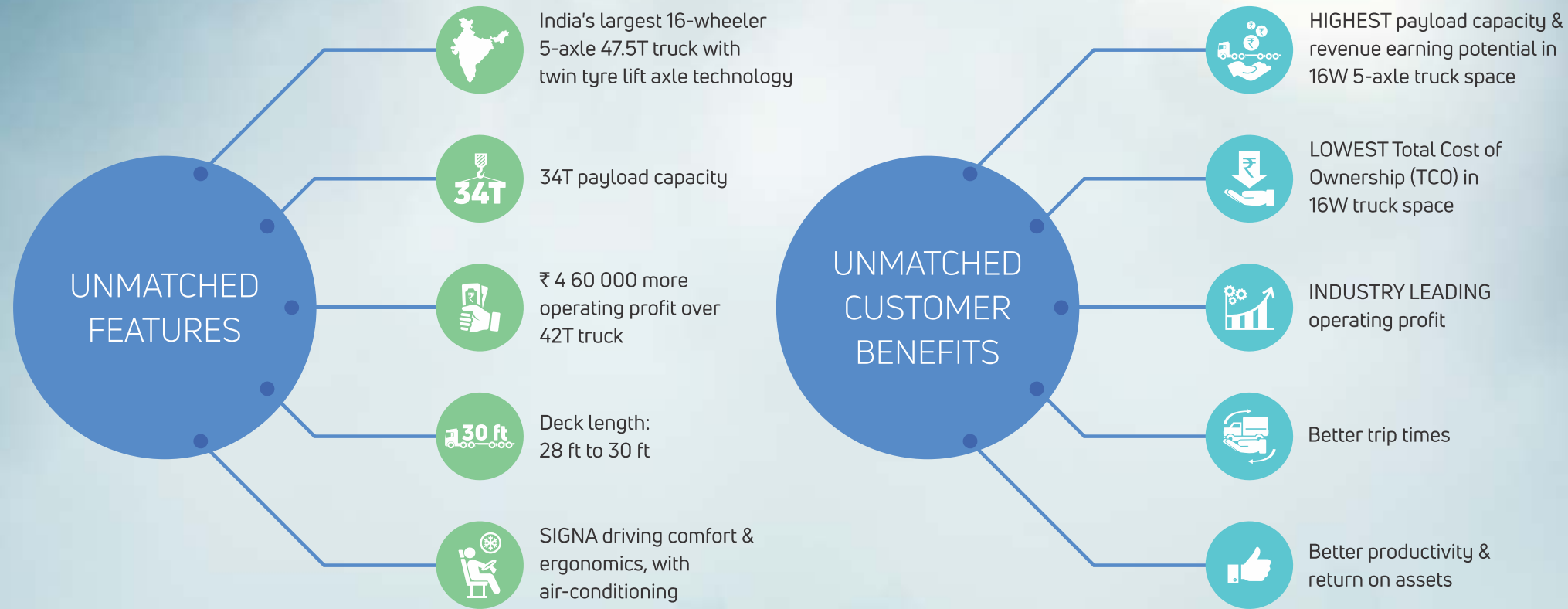
Signa 4823.T



Opens up a world of unmatched benefits!

The 16-wheeler 47.5T truck with twin tyre lift axle technology

47 500 KG GROSS VEHICLE WEIGHT



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UNMATCHED APPLICATIONS



Parcel & Logistics



Fly Ash



Cement Bags



Steel Rods & Pipes



Industrial Goods



Tanker & Lubes



Construction Aggregates



Agri Products



Coal



Limestone



Bulkier



Clinkers

TATA ADVANTAGES

- India's first 5-axle, 16-wheeler suitable for the widest range of applications
- Maximum loading ability
- Lowest cost per ton km
- Higher fuel efficiency
- Lower maintenance cost
- Longer service intervals
- Low cost spare
- Customisable AMC offers 6-year/6-lakh km driveline warranty
- Widest spare & service network
- Highest resale value in segment
- Most viable acquisition cost
- Sustained business profitability
- Best-in-industry durability and reliability

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TECHNICAL SPECIFICATIONS

ENGINE

Model	CUMMINS ISBe 5.9L BS4 230HP T1	<ul style="list-style-type: none"> • High power-to-weight ratio for excellent road performance • Flattest torque curve in segment for class-leading fuel economy on all applications and terrains • Higher max. torque for excellent driveability Lesser no. of gear shifts for fatigueless driving under all road load conditions • Superior wheel traction & gradeability • Increased life of fuel injector and fuel filter
Type	CI Water-cooled Direct Injection Turbo-charged Inter-cooled Common Rail Diesel Engine (Cummins Fuel Injection)	
No of Cylinders	6 In-line	
Bore/Stroke	102 mm x 120 mm	
Capacity	5 883 cc	
Max. Engine Output	171 kW @ 2 500 r/min	
Max. Torque	810 Nm @ 1 000 - 1 800 r/min (+/- 5 %)	
Fuel Filter	Two-stage Fuel Filtration Pre & main Fuel Filter with Water Separator	

CLUTCH

Type	Single Plate Dry Friction Type Booster-assisted; 380 mm Dia Organic	<ul style="list-style-type: none"> • Organic clutch for smooth and efficient engine torque transfer • Longer life Zero wear adjustment Zero maintenance
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GEARBOX

Model	G1150 DD 9 Forward + 1 Reverse	<ul style="list-style-type: none"> • 9-speed proven and reliable high capacity transmission to suit multitude of applications and operating terrains, optimising wheel torque, gradeability and fuel efficiency
Gear Ratio	FGR: 12.868 TGR: 1.00	
Gear Shift	Linkage Type Gear Shift Lever	

REAR AXLE

Model	RA110HD at RFWD and RA910 at RRWD	<ul style="list-style-type: none"> • Evenly optimised RAR to balance desired traction for high GVW and fuel economy requirement • 21 000 kg designed capacity with wider track for supporting high tonnage node • Reinforced rear axle design for high durability and load bearing ability
Description	Single Reduction Hypoid Gears, Extra Heavy Duty, Fully Floating Axle Shafts	
Ratio	5.85 RAR	

FRONT AXLE

Type	7.5T Capacity Heavy Duty Forging 2 Steerable Front Axles with Extra Heavy Duty Forged I Beam, Reverse Elliot Type	<ul style="list-style-type: none"> • Proven FA with robust 7.5T capacity for supporting increased axle loading delivering best-in-class durability • Excellent tyre life 10 % higher front tyre life over competition
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LIFT AXLE

Type	Electro-Pneumatically Operated 12.5T Twin Tyre Pusher Axle with SMART MANOEUVRING	<ul style="list-style-type: none"> • SMART MANOEUVRING – Smart embedded controller automatically adjusts lift axle load, based on real-time vehicle parameters like vehicle speed and steering angle, and prevents tyre wear due to scrubbing/scuffing • 40 % higher tyre life over competitive lift axles
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KEY FEATURES



ELECTRONIC VISCOUS FAN

Need-based power consumption for engine cooling, resulting in higher fuel economy



WASTE GATE TURBOCHARGER

- Higher power density
- Reduced fuel consumption



ENGINE BRAKE

- 20 % higher brake life
- Improved braking efficiency

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TECHNICAL SPECIFICATIONS

FRAME		
Type	Ladder Type Heavy Duty Frame with Riveted/bolted Cross Members	• High capacity robust frame assembly with 285 mm depth, strength, durability and low maintenance
SUSPENSION		
Front	Parabolic Springs at Front with Anti-roll Bar Assy	• Superior riding comfort with better shock insulation, stress prevention and road stability
Rear	Semi-elliptical Leaf Spring at Rear	• New generation twin tyre 12.5T capacity lift axle for superior tyre life through innovative smart maneuvering system
Lift	Air Suspension for the Lift Axle	
PERFORMANCE		
Wheel Base	6 730 mm	• Clinically designed axle spacing for better load distribution
Gradeability	19 % at Rated GVW	• High gradeability to suit loaded applications across terrains
Minimum TCD	23 800 mm	• Low TCD for easy manoeuvrability
TYRES		
Size & Type	Option 1: 295/80R 22.5 Tubeless (F+R) Option 2: 295/80R 22.5 Tubeless (F) + 10R20 (R)	• Choice of tyres for full GVW passing; radial tubeless & tube options: - Superior tyre mileage & fuel economy - Higher tread life & traction Easier tyre maintenance - Greater productivity & riding comfort
FEATURES		
Gear Shift Advisor	First of its Kind Value Feature	• Load terrain based gear shift coaching for maximum fuel economy
Telematics	In-built Tata Fleetman	• Vehicle monitoring & trip management for vehicle owners
Air Conditioning	Standard Factory Fitment	• Higher driving comfort Higher driver productivity
STEERING		
Type & Ratio	Tilt & Telescopic Steering with Integral Hydraulic Power Assistance	• Superior driving comfort & compatibility to multiple driver sizes & driving habits Fatigueless driving Faster & easier trips
WEIGHTS & DIMENSIONS		
Gross Vehicle Weight	47 500 kg	• Highest GVW in 5-axle truck configuration
Payload	34 000* kg	• Highest payload in 5-axle truck configuration
Deck Length/Body Size	28 ft to 30 ft	• Bigger loading span and body capacity for larger loads
Body Options	HSD FSD	• Best-in-class durability & performance Full vehicle warranty Single invoice funding Best in industry after sales service
WARRANTY		
Driveline	6-year/6 lakh km Standard	• Warranty offering unmatched in the industry
Vehicle	3-year/3 lakh km Standard	

SUPERIOR AGGREGATES



CUMMINS ISBe 5.9 CR Engine



G1150 DD Gearbox



RA110HD Rear Axle

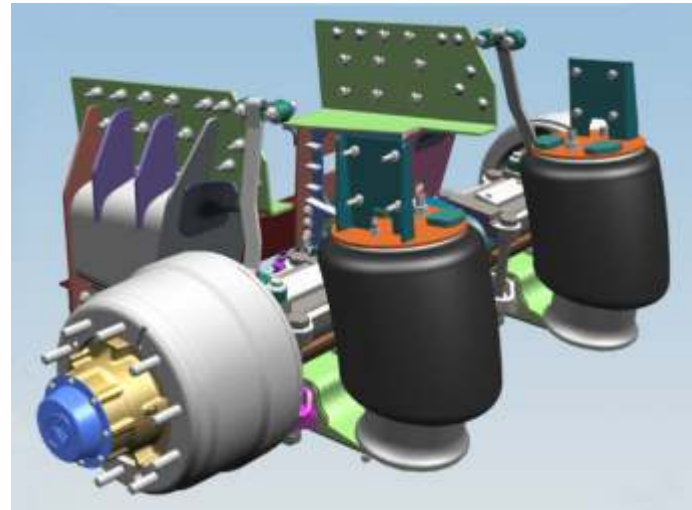


Twin Lift Axle - First Time in India

*Payload may vary with body size and material

UNMATCHED ADVANCEMENT

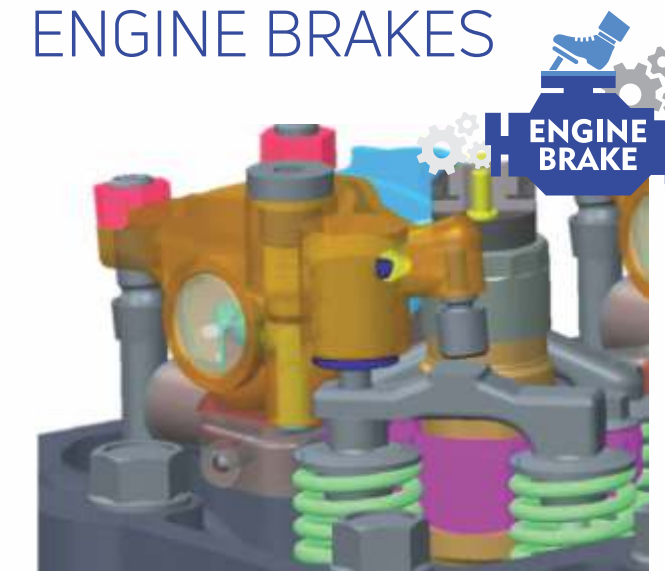
SMART MANOEUVRING FOR 12.5T TWIN TYRE LIFT AXLE



- Automatic adjustment of Lift Axle Tyre load and automatically controlled raising/lowering of Lift Axle based on real-time vehicle speed and steering angle
- Prevents tyre scrubbing/scuffing during cornering
- 40% higher tyre life over competition
- No additional hydraulic actuator cost or weight impact
- 30% lower maintenance cost
- High speed manoeuvring safety
- Higher vehicle stability



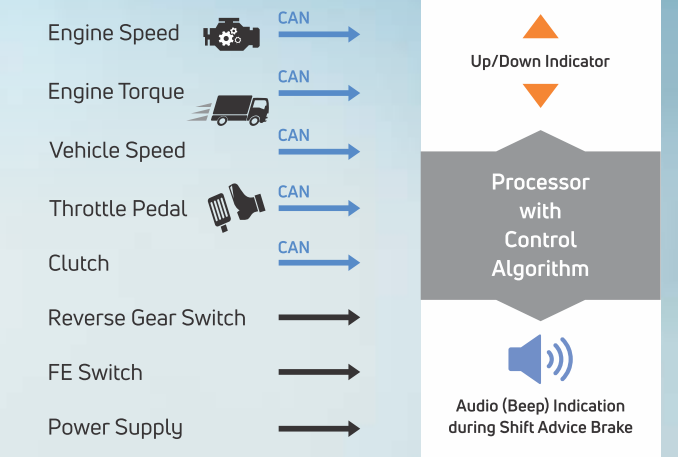
ENGINE BRAKES



- Reduction in warranty cost on engine & gearbox
- Improved vehicle braking efficiency
- Reduced brake overheating, 20% improved brake life
- Better driveability

GEAR SHIFT ADVISOR

Gear Shift Advisor System Architecture



Note: The system also internally records the driver's compliance with Gear Advice. This data can be retrieved by service (service tool) to educate the drivers.

Gear Advisor

Principle of Shift Logic



Advise Up/Down (▲ ▼) shifts, considering:

- Efficient operating zones of the engine
- Driver intent: Coast | Drive | Accelerate
- Vehicle situations: Uphill/Downhill | Acc./Dec. Empty/Loaded
- Real-time engine torque monitoring

UNMATCHED FUEL ECONOMY



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FUEL ECONOMY SWITCH

This technology underlines the strong focus on customer requirements and its emphasis on R&D and innovation, to further boost our hallmark value-for-money proposition.

- FE Switch is a feature on commercial vehicles of Tata Motors, which helps in achieving better fuel economy and optimum vehicle performance, having an option of selecting suitable mode.
- It comes with two modes called 'Light Mode' with green light glow and 'Heavy Mode' with red light glow. The mode switching happens with the press of a button when the vehicle is in running condition or in stationary condition.

- 'Light Mode' is optimised for rated load and unladen condition which should mostly be used on flat roads and on smaller grades.
- For heavy loads and steep grades, 'Heavy Mode' should be used, to meet increased power demand from the engine. Driver should immediately switch back to 'Light Mode', based on the driving condition.
- Higher usages of "Light Mode" is recommended to get better fuel economy.










After each Ignition ON, the Fuel Economy Switch will be in default 'Heavy Mode'.

Driver needs to select 'Light Mode' by considering vehicle loading condition.

It is advisable to start with 'Heavy Mode' & then switch over to 'Light Mode', based on requirement.

Recommended usage of FE Switch Modes

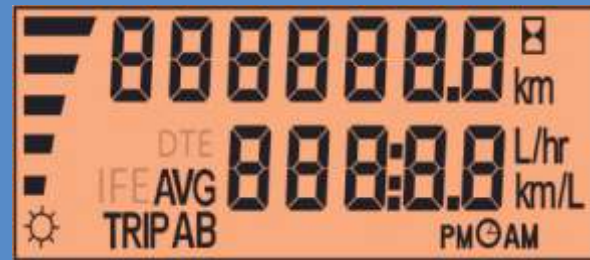
FE Switch Mode	Load	Road	Images	
 Light Mode	Unladen	Flat Roads & Uphill		
	Rated Load	Flat Roads & Small Gradients		
 Heavy Mode	Heavy Load	Steep Gradients		

TRIP MILEAGE INDICATOR



ADMINISTRATION OF FUEL EXPENSES

1. Accurate fuel economy monitoring per trip
2. Better planning and control of fuel expense per trip
3. Direct digital validation of fuel economy data



TRIP ANALYSIS & OPECO MANAGEMENT

1. Route-Load-Age-Driver optimisation for best Fuel Economy, in conjunction with Tata Fleetman
2. Predictive and flexible OPECO inflection based on trip matrix

UNMATCHED COMFORT

BEST-IN-CLASS CABIN



Tilt & telescopic steering for superior driving comfort



Sun visors for driver & co-driver



- All-steel cabin
- Highest level of noise and heat insulation
- Factory-fitted Tata FleetMan Telematics device
- Contemporary styling
- Ease of reparability and serviceability
- Impact and crash barrier tested
- Wide angle visibility



Premium interior aesthetics for superior in-cab driving experience



Easy accessibility of controls, comfy and expedient driveability



- Seats with Emergency Locking Retractor (ELR) seat belts
- 3-way adjustable mechanically suspended seat for unmatched riding comfort
- Deep seat cushioning and extended body support for long, fatigueless driving
- Cockpit type dual tone interiors

- Improved cabin suspension with front dampers and rear shock absorbers with coil springs
- Enhanced driving comfort with transverse cabin shockers at rear
- Best-in-class NVH characteristics



Air-conditioning



Electronic viscous fan



Provision for infotainment



- Factory fitted air-conditioning/blower options
- Elegant control panel with ergonomically positioned switches
- Fuel Economy Switch for load/gradient based mileage governance
- Power socket provision



Wide and comfortable sleeper berth with spacious berth box



Both side grab handle and wider door angle for easy ingress/egress



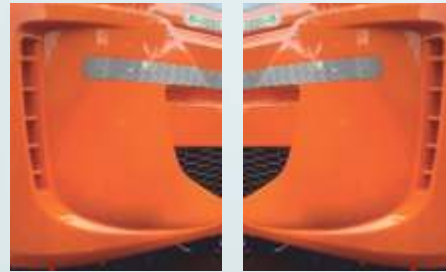
Magazine pocket and bottle holder



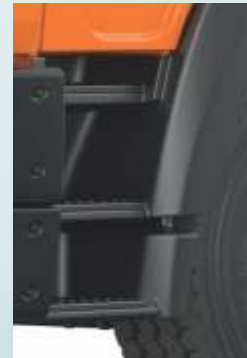
Pendant type accelerator and clutch pedal for fatigueless driving



Clear lens wraparound head lamp for superior visibility, coupled with chic styling



LH & RH aero corners for reduced aerodynamic drag and better fuel economy



Lowest step-in height with three-step footstep and scuff plate



Lockable glove box beneath co-driver seat



Side close proximity mirror
Normal rear view mirror
Wide angle rear view mirror



Single locking system for entire vehicle



Ergonomic steering wheel



3-piece bumper | Ease of reparability due to modular design

Images are representational.

TATA FleetMan

Fleet Telematics for higher productivity

- ▶ Better Fleet Utilization
- ▶ Higher Vehicle Uptime
- ▶ Better Control of Operating Cost
- ▶ Faster Turnaround Time
- ▶ Proactive Maintenance
- ▶ Higher Driver Productivity
- ▶ Better Return Load Planning
- ▶ Stolen Vehicle Tracking



Real-time Vehicle Tracking



Monitoring of: Idling
Green Band Driving
Over-speeding | Over-revving
Over-run | Heavy Throttle



Review of Trip Performance between locations



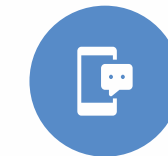
Geo-fencing



Fuel Consumption & DEF Monitoring



Harsh Acceleration, Braking and Cornering Detection



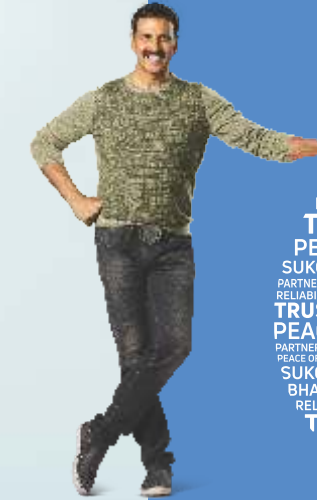
SMS Alerts & Reports



Mobile Application

TATA 6-YEAR WARRANTY

Sampoorna khayal har kadam.



RELIABILITY
TRUST
BHAROSA
PEACE OF MIND
PARTNERSHIP
TRUST
PARTNERSHIP
SUKOON
RELIABILITY
BHAROSA
SUKOON
RELIABILITY
BHAROSA
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PEACE OF MIND
RELIABILITY



6

YEAR WARRANTY

6 SAAL. AAPKA KHAYAL.