

OMEGARC Cut Section

The Optimal Modular Efficient Global Advanced (**OMEGARC**) architecture, derived from the renowned **Land Rover platform**—the gold standard of SUVs worldwide—forms the foundation for the Tata Safari and Harrier. Both vehicles, built on the OMEGARC platform, are India's safest, **boasting 5-Star GNCAP and BNCAP ratings**. They achieved exceptional safety scores in GNCAP, with an outstanding adult safety score of 33.05 out of 34.00 and a child safety score of 45.00 out of 49.00, setting new benchmarks for safety excellence. Both – Harrier & Safari have achieved Safer choice award in 2024 with provision of additional safety features that are more than the standard protocol.

The OMEGARC platform is designed with front and **rear crumple zones** for efficient crash energy management. **High-strength steel** is used in the body structure to enhance its robustness. Additionally, the platform is equipped with a range of safety features, including **seven airbags** -

Front Airbags (2) – Placed in front of driver and Co-driver to provide head and chest protection in an event of a frontal accident.

Seat Airbags (2) - Driver and Co-driver seat side airbags provide occupant thorax and abdomen protection in an event of side accident.

Curtain Airbags (2)- Side curtain airbags are located above the doors in the roof on both the driver and co-driver sides to provide effective head protection for outboard occupants in an event of side accident.

Driver Knee Airbag- Driver Knee airbag is located in the dashboard at the Driver knee level and provides Knee protection in an event of an accident.

Both Tata Harrier & **Tata Safari** are equipped with **radars and cameras**. These radars and Cameras are part of the ADAS (Advanced driver assistance system) system that provides driver assistance by monitoring and detecting and alerting the driver of any obstacles in and around the vehicle. The system uses Technology to prevent accidents by enabling functions like automatic emergency braking and rear collision warning. It also provides driving support functions like adaptive cruise control and Lane Keeping assist, allowing driver to have more comfortable and safe drives.

They boast over 70+ Safety Features that enriches the overall safety of the occupants and pedestrians:

A) Active Safety Features

- L2 Level Advanced Driver Assistance System with 20 functionalities:
 - Adaptive Cruise Control with Stop and Go (AT only)
 - Autonomous Emergency Braking - Including Pedestrian & Cycle
 - Lane keep Assist
 - Lane Centring Assist
 - Forward Collision Warning
 - Rear Collision Warning
 - Rear Cross Traffic Alert
 - Blind Spot Detection
 - Traffic Sign recognition
 - Door Open Alert
 - Lane Departure Warning
 - Lane Change Alert
 - High Beam Assist
- Electronic Parking Brake with Auto Hold
- 360 Deg Surround View Camera with blind view monitor
- Front Parking sensors
- All Wheel Disc Brake
- Advanced ESP with 17 functionalities
 - Panic Brake Alert
 - After Impact Braking
 - Driver Doze Off Alert
 - Anti-lock Braking System, Electronic Traction Control & Electronic Stability Control
 - Corner Stability Control
 - Hill Hold Control & Hill Descent Control
 - Electronic Brake Force Distribution
 - Off-road ABS
 - Roll Over Mitigation
 - Brake Disc Wiping

- Electronic Brake Pre-Fill
- Hydraulic Brake Assist
- Hydraulic Fading Compensation
- Dynamic Wheel Torque by Brake

B) Passive Safety Features

- Collapsible steering column for efficient energy absorption
- Anti-submarining Seats
- Seat Belt Anchor Pre-tensioner for enhanced Occupant Safety.
- 3 Point ELR Seatbelts for all passengers with Reminders and Occupant Detection System
- Child Seat ISOFIX Anchor Points for second row Outer Seats
- Fuel cut-off and door unlock during a crash event

C) Emergency support features

- Emergency – call Assist (E-call)
- Breakdown – call Assist (B-call)