

# TECHNOLOGICAL The K-series engine



**MY NEW SEARCH ENGINE...**

“My first car... My world on four wheels. Totally alive and kickin'. Easy in the traffic; Easy on the pocket. It is me.... I'm connected to it”

 Ruchi Arora, 26  
Media Professional

**Alto K10**

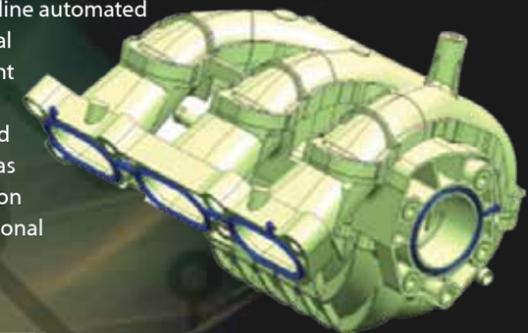
Powered by the K-series engine, India's favorite brand just got better and zippy. Alto K10 is the spirit to live life to the fullest, anytime, anywhere.

The 998cc engine in the Alto K10 has been carefully designed to be environment friendly and fuel efficient. A number of innovative technologies used in the engine have helped in achieving the best-in-class fuel efficiency, emission and performance with reduced noise, vibration and harshness for customer delight.



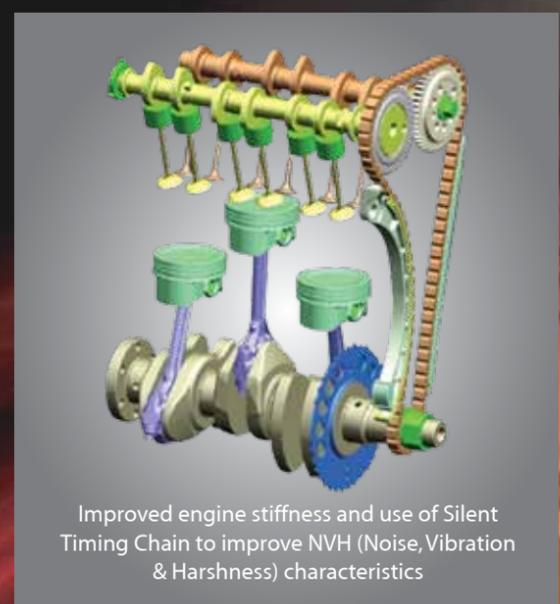
**A Marvel of Engineering**

The K-series engines are a result of enormous effort in R&D and thousands of hours of design, validation and testing. They epitomise the Company's philosophy of marrying latest technologies to effectively meet customer demands. Manufactured at the state-of-the-art, fully integrated facility inside the Gurgaon plant, this new family of engines offer improved performance without compromising on mileage. The plant employs global best practices such as cold testing, 100% on-line automated checks to ensure global quality. The in-line plant layout consisting of Casting, Machining and Assembly processes has high level of automation aimed for high operational efficiency.



Plastic Intake Manifold in the K-series is one of many examples of technologies adopted for light weight construction

## How technologies generate customer value



Smart Distributor Less Ignition (SDLI) system with dedicated plug top coils, High Pressure Semi-return Fuel System and advanced injectors for superior atomization and better performance



Optimised Cylinder Block, Light Piston and Nut-less ConRod for light weight configuration

Innovative rocker-less DOHC Camshaft & offset Crankshaft with low tension rings to reduce losses and improve fuel efficiency

All Aluminium, light-weight engine for best-in-class fuel efficiency