



BOSCH

Invented for life



About Bosch Group

The Bosch Group is a leading global manufacturer of automotive and industrial technology, consumer goods, and building technology. Set up in Stuttgart in 1886 by Robert Bosch (1861-1942) as "Workshop for Precision Mechanics and Electrical Engineering," the Bosch Group today comprises a manufacturing, sales, and after-sales service network of some 300 subsidiary and regional companies in over 50 countries.

Bosch spends more than three billion euros each year for research and development, and in 2006 applied for over 3,000 patents worldwide.

The special ownership structure of the Bosch Group guarantees its financial independence and entrepreneurial freedom. It makes it possible for the company to undertake significant up-front investments in the safeguarding of its future, as well as to do justice to its social responsibility in a manner reflective of the spirit and will of its founder. A total of 92% of the share capital of Robert Bosch GmbH is held by the charitable foundation Robert Bosch Stiftung. The entrepreneurial ownership functions are carried out by Robert Bosch Industrietreuhand KG.

Vital facts

Year of foundation: 1886

Sales

Worldwide: 43.7 billion euros

Production locations worldwide: approx. 270

Employees worldwide: approx. 261,300

In India, Bosch is represented by

- a) Bosch Limited
- b) Robert Bosch Engineering and Business Solutions Ltd.
- c) Bosch Rexroth India Ltd.
- d) Bosch Chassis Systems India Ltd.

Bosch in India

Bosch Limited (formerly Motor Industries Co. Ltd.) is the largest subsidiary of Bosch in India. The company has grown over the years to become the largest auto component manufacturer in the country. The Bosch Group holds around 70% stake in the company.

Bosch Limited operates in all the business sectors of Bosch - Automotive technology, Industrial technology, and Consumer goods and Building technology. It manufactures and trades products as diverse as common rail injector and components, diesel and gasoline fuel injection equipment, industrial equipment, auto-electricals, gear pumps, power tools, packaging machines, special purpose machines, security systems and Blaupunkt car audio systems.

It has a nationwide network spanning across 1000 towns and cities in India with over 4,000 authorized representations which ensure widespread availability of both products and services.

The company is headquartered at Bangalore with manufacturing facilities in Bangalore, Nashik, Naganathapura and Jaipur. All the 4 plants are TS 16949 and ISO 14001 certified.

Vital facts (as on Aug. 2007)

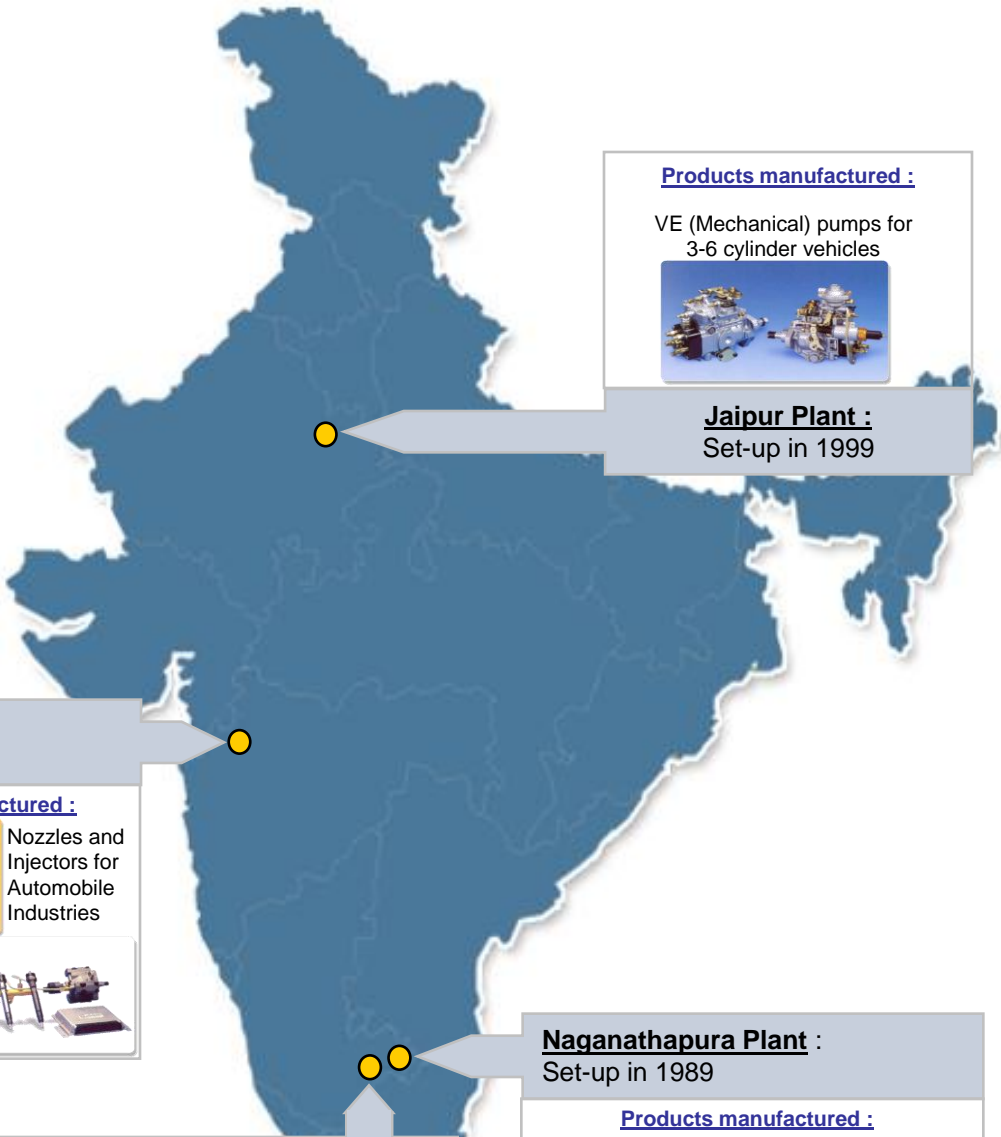
Bosch holdings: 70 %

2006 annual sales: Rs 37,837 million

No. of associates: 10,033

National network: 4000 aftermarket service centers

Bosch Manufacturing Sites in India



Products manufactured :

VE (Mechanical) pumps for 3-6 cylinder vehicles

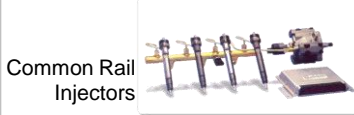


Jaipur Plant :
Set-up in 1999

Nashik Plant :
Set-up in 1969

Products manufactured :

Nozzles and Injectors for Automobile Industries



Naganathapura Plant :
Set-up in 1989

Products manufactured :

Starters and Alternators for commercial vehicles



Spark Plugs



Other products are - Glow plugs, Single cylinder pumps and engine cooling fan module.

Bangalore Plant :
Set-up in 1951

Products manufactured :

Multi cylinder fuel injection pumps & its components



Packaging Machines



Common Rail Pumps



Power Tools



Special Purpose Machines



We stand for...

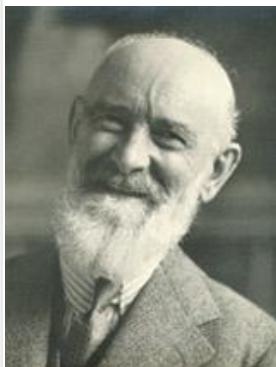


ENVIRONMENT

The Bosch Group has been committed to environmental protection since 1973. This principle of our corporate philosophy is as important to Bosch as the quality of its products and the cost-efficiency of its operations. We place our innovations in the interests of the safety of people, the economical use of resources, and environmental sustainability.

PUBLIC RESPONSIBILITY

The Robert Bosch Stiftung (Robert Bosch Foundation) was established in 1964 to keep alive the philanthropic and social endeavors of its founder Robert Bosch. Through its programs and institutes, the foundation has since issued 790 million euros in project funds. In 2006, it made available 54,6 million euros for non-profit projects. Bosch-Nashik is working with the same culture.



QUALITY

"It has always been an unbearable thought to me that someone could inspect one of my products and find it inferior in any way. For that reason I have constantly tried to produce products which withstand the closest scrutiny – products which prove themselves superior in every respect..." Company founder Robert Bosch acted in accordance with this principle throughout his life.

INNOVATION

Bosch regards innovation as something more than exceptional product quality, functionality and design. Not only our technical developments, but also our commitment to society has an effect on the world of tomorrow.



Bosch in Nashik

Set up as a pilot plant in 1969, the Nashik Plant is specialized in the manufacture of classical and euro series of Nozzles and Injectors for Automobile Industries. Recently, the Nashik plant has ventured into the production of the Common Rail Injector, catapulted by the endeavor in Common Rail technology.

With the introduction of state-of-the-art manufacturing set-up for Common Rail Injector, the infrastructure of measurement facilities is also built with state-of-the-art techniques to meet the stringent quality requirements. Besides technology, care is taken while designing and manufacturing state-of-the-art fuel injection products that they are safe, clean and economical in line with the Bosch goal of "3S"(Sicher, Sauber & Sparsam).

Our responsibility and commitment towards our customers, business partners, employees and society can very well be seen through our 'Vision'.

- Vision**
- We are the **most preferred supplier** to our customers based on our reliability and leadership in technology and quality.
 - We focus on our core competencies and continuous improvement for **sustained profitability and accelerated growth**.
 - We **involve and empower our people** to shape our future together.
 - We encourage the active participation of our business partners to **become cost-competitive**.
 - We commit ourselves towards **environment protection & social responsibility**.

Milestones

- 1969 Manufacture of Nozzles and Nozzle-Holders at Pilot Plant
- 1974 Production begins at NaP
- 1988 Manufacture of Elements and Delivery Valves
- 1992 ISO 9001 Certification
- 1996 Manufacture of DSLA Injectors (Euro I) with CKD imports
- 1997 QS 9000 Certification
- 1998 Manufacture of DSLA Nozzles
- 1999 First export to Automotive After market of Bosch
- 2000 DSLA nozzles : Approval upto 1800 bar pressure
- 2001 Manufacture of one Millionth DSLA Nozzle
- 2002 Manufacture of Fifty Millionth NHA
- 2003 ISO/TS-16949,ISO14001 certification; Lead plant status-DN nozzles
- 2004 Lead plant status for KCA injectors; Sixty Millionth NHA production
- 2005 Fulfillment of Export Vision
- 2006 Manufacture of CRI components
- 2007 Manufacture of Common Rail Injector

Water conservation

We have installed two waste water treatment plants to process the waste water from effluent and domestic sewage. The quality of treated water from these plants is beyond the statutory limits set by MPCB. This treated waste water is recycled for gardening and toilet flushing and not let outside the factory premises.

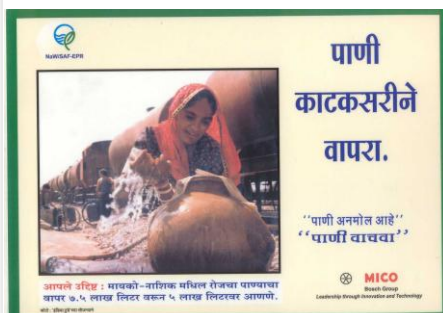
We have nearly 5,500 trees within our factory premises makes our green belt coverage to ~40% of total area. This recycled water helps us in increasing the green cover and number of trees within our plant premises.

As a water conservation measure, we have conducted awareness campaign. We also plan to conduct periodic water audit towards water conservation cause from this year onwards. Visual posters (as shown in the below pictures) are placed at all the vantage points across the plant.

Process waste water (Effluent) treatment plant



Domestic waste water (Sewage) treatment plant



Energy conservation

Energy saved is Energy generated. Bosch, Nashik has been actively pursuing Energy Conservation over the years.

With the increasing production output and addition of new products into the family, our energy requirements and consumption thereby also proportionately increases. Care is taken always to be within the sanctioned load and systematic measures are identified to optimize the consumption year on year. The same gets reflected with the help of the graph shown besides.

Hot water generator using furnace oil eliminates heating of water required for surface cleaning processes;

Energy saved – 3,500 units/day



Use of solar panel for heating water required for utensil cleaning at canteen;

Energy saved – 407 KW/day



Eco-friendly roofing, flooring

We have implemented usage of natural sun light in day time by introducing translucent roof sheets thereby reducing electricity consumption (Saving of ~500 units/day). The roof sheets

are also fitted with hot air extractors (Turbo Ventilators) which run on wind velocity out above the roof.

Use of Epoxy flooring prevents seepage of oil into the soil and adds to aesthetics.

Eco-friendly roofing, flooring

Eco-friendly roofing and use of natural light with the help of translucent sheet



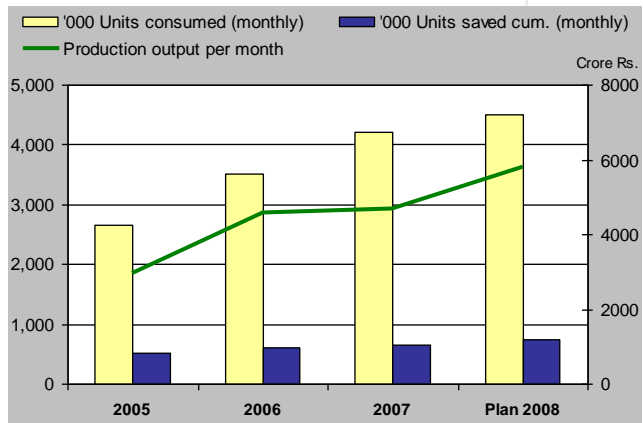
Turbo-ventilators

Epoxy flooring eliminates oil seepage into the ground



Energy conservation

Performance on energy conservation



Elimination of Hazardous Chemicals

While working on our plant operations, processes and technologies, our prime focus always is to prevent and reduce any harmful impact to the local, national and global society. In line with the same, many environment protection measures are taken to eliminate hazardous chemical from our process technology.

We have eliminated use of Cyanide from heat treatment and surface treatment processes, Trichloroethylene (TCE) from component cleaning operations. We are in process of removing refrigerant gases (R12, R22) from various cooling system thereby reducing the treat to depletion of Ozone layer.

Sealed Quench Furnace to eliminate use of cyanide in Heat Treatment Process



High pressure vacuum based cleaning machine to eliminate use of carcinogenic solvents (TCE) in cleaning process



Liquid Nitrogen to eliminate use of CFC coolants in Deep Freezer

