



125 years of Bosch – Invented for life Product development milestones

January 2011

1886 Robert Bosch opens the Workshop for Precision Mechanics and Electrical Engineering in Stuttgart on November 15

Automotive Technology

- 1887 Bosch magneto ignition device for stationary gas engines
- 1897 Low-voltage magneto device for motor vehicle engines
- 1902 High-voltage magneto ignition system with spark plug
- 1909 Bosch oiler (lubricating pump for engines)
- 1913 Bosch automotive lighting system
- 1927 Diesel injection pump for commercial vehicles
- 1932 Europe's first series-produced car radio
- 1936 Diesel injection pump for automobiles
- 1937 Gasoline injection pump for aero engines
- 1951 Gasoline direct injection for cars with two-stroke engine
- 1954 Gasoline direct injection for cars with four-stroke engine
- 1960 VM diesel distributor pump
- 1967 Electronic gasoline injection (Jetronic)
- 1975 VE diesel distributor pump
- 1976 Lambda oxygen sensor for three-way catalytic converter
- 1978 ABS antilock braking system
- 1979 Electronic engine management (Motronic)
- 1980 Electronic control unit for airbag
- 1983 Electronic transmission control for automatic transmissions
- 1986 EDC electronic diesel control
- 1986 TCS traction control system
- 1989 TravelPilot IDS vehicle navigation system
- 1991 Motronic with controller area network (CAN)
- 1995 ESP[®] electronic stability program
TravelPilot satellite navigation system with voice output
- 1995 Microelectromechanical sensor (MEMS)
- 1997 Common-rail fuel-injection technology
- 2000 DI-Motronic gasoline direct injection system
- 2002 Electronic battery management (EBM)
- 2003 Common-rail diesel injection with piezo inline injectors

- 2004 Denoxtronic exhaust gas treatment for commercial diesel vehicles
- 2005 Night vision system for automobiles
- 2006 Gasoline direct injection with piezo injectors
- 2007 Start-stop system
- 2008 Semi-autonomous parking-aid assistant
- 2009 Night vision assistant with pedestrian detection
Injection systems for low-price vehicles
- 2010 Parallel full hybrid system for automobiles
Radar- and video-based emergency braking system

Consumer Goods and Building Technology

- 1928 Forflex hair trimmer – the first Bosch power tool
- 1929 Safety gas switch
- 1932 Hammer drill
Electric drills and screwdrivers
- 1933 Electric refrigerator
- 1936 Presentation of a television
- 1952 Food processor
Power tool with attachments for do-it-yourselfers (for sawing, drilling, sanding etc.)
- 1958 Washing machine
- 1964 Dishwasher
- 1968 Combined heating and hot water boiler
- 1984 Cordless hammer drill
- 1985 Condensing boiler
- 1990 CFC-free refrigerator
- 1993 Delta sander
- 2000 Junkers solar systems
- 2002 Wall scanner
- 2003 Ixo cordless drill/driver with lithium-ion rechargeable battery
- 2006 World's first lawnmower with lithium-ion battery
- 2008 Dishwasher with zeolite® drying technology
- 2009 Eco Logixx 7 S heat-pump dryer, the world's most economical tumble dryer

Industrial Technology

- 1902 Relieving lathes and grinders for magneto production
- 1930 Special-purpose machinery manufacture
- 1953 Hydraulic power units
- 1984 Launch of the world's first swivel-arm industrial robot
- 2002 Filling and sealing machine with vertical machine plate for liquid pharmaceuticals
- 2005 First servomotor with integrated control technology
- 2008 HRB hydrostatic regenerative braking system
- 2009 Variable-speed pump drives