

HISTORY HIGHLIGHTS

Hitachi founder Namihei Odaira realized a dream in 1910 when he constructed a 5-HP electric motor in his small workshop. In the hundred years since then, we at Hitachi have taken up our founder's mission of devising our own technology and have put this ideal into practice through our Corporate Credo of "contributing to society through the development of superior, original technology and products."

1910

- Founded by Namihei Odaira as an electrical repair shop
- Succeeded in manufacturing three 5-HP (3.6775-kW) electric motors as the company's first products
- Completed a 5-kVA transformer for Hitachi Kozan



1910

1915

- Completed 10,000-HP (7,355-kW) water turbine

1924

- Completed the first large-scale DC electric locomotive to be manufactured in Japan



1924

1931

- Completed 10,000-A hydraulic electrolytic cell

1932

- Completed Hitachi's first electric refrigerator

1943

- Completed 85,000-kW Francis water turbine and 70,000-kVA alternating current generator

1952

- Completed 21,000-kW two-stage pump-turbine

1954

- Completed the first large-scale cold strip mill to be produced in Japan

1955

- Completed 100,000-kW Francis water turbine and 93,000-kVA alternating current generator

1958

- Electron microscope awarded the grand prix at the World Exposition in Brussels



1958

1959

- Completed electronic computers based on transistors
- Hitachi America, Ltd. established

1961

- Completed experimental nuclear reactor

1964

- Completed the first cars for the Shinkansen (bullet train)
- Manufactured monorail running between Haneda Airport and Hamamatsu-cho, Tokyo

1968

- Developed hybrid LSI
- Developed 300-m/min elevators for high-rise buildings

1969

- Completed on-line banking system
- Developed and mass-produced all-transistor color televisions

1970

- Developed computer-aided traffic control system for the Shinkansen (bullet train)



1970

1973

- Developed new-type image pickup tube

1974

- Commercial operation began at Japan's first 460,000-kW nuclear power station
- Released the first series of general-purpose large-scale computers



1974

1975

- Developed Hitachi High Crown Control Mill

1978

- Completed world's first field emission electron microscope with record-high resolution
- Experimental color camera with solid-state miniature image device developed

1982

- Hitachi Europe Ltd. established
- Succeeded in world's first micro-level observation of magnetic field by the use of electron beam holography
- Listed on New York Stock Exchange

1984

- Started mass production of 256-kbit DRAMs

- 1985**
 - Completed the "JT-60" large-scale Tokamak device for break-even plasma experiments
 - Established the Hitachi Foundation to promote cultural, educational and scientific exchanges between Japan and the U.S.

- 1988**
 - Hitachi Asia Pte. Ltd. established

- 1989**
 - Developed world's fastest superconductive computer
 - Developed superconductive MR imaging equipment
 - Established two R&D centers in the U.S. and two laboratories in Europe

- 1990**
 - Released very large-scale computer with the world's fastest processing speed at that time

- 1991**
 - Developed inverter-controlled electric locomotive with the world's largest control capacity
 - Developed highly sensitive image pickup tubes



1991

- 1993**
 - Developed Shinkansen (bullet train) with new maximum service speed of 270 km/h
 - Developed capillary array DNA sequencer

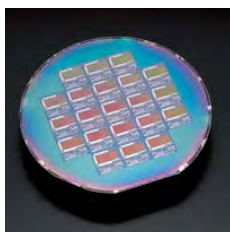
- 1994**
 - Hitachi (China), Ltd. established
 - Developed the original 32-bit RISC processor SuperH family

- 1995**
 - Developed Super TFT LCD module featuring ultra-wide viewing angles
 - Developed 10-Gbit/s fiber-optic transmission equipment



1995

- 1998**
 - Developed 320-Gbit/s optical data transmission system
 - Developed the experimental 128-Mbit single-electron memory



1998

- 1999**
 - Established dependable autonomous hard real-time management technology

- 2000**
 - Developed 52.5-Gbit/in² perpendicular magnetic recording method

- 2001**
 - Developed Notary and Certificate Authority systems for e-government
 - Developed mobile web-gateway system
 - Developed application processor for mobile phones

- 2002**
 - Developed world's first silent water-cooling notebook PC
 - Developed world's smallest 0.3-mm square contactless IC chip
 - Developed compact DNA analysis system genetic for SNP typing



2002

- 2003**
 - Developed and commercialized compact, highly accurate, high-speed finger vein authentication system
 - Successful measurement of infant brain functions using optical topography
 - Dr. Hideaki Koizumi, a Hitachi Fellow, presented a lecture at the 400th Anniversary of the Foundation of the Pontifical Academy of Sciences, Vatican City



2003

- 2004**
 - Developed world's smallest sensor-net terminal with a battery life of over one year
 - Developed high-temperature lead-free solder paste

- 2005**
 - Explosives Trace Detection System received U.S. TSA certification
 - Exhibited two-wheel mobile robot "EMIEW" capable of direct dialogue at the 2005 World Exposition Aichi, Japan
 - Established Hitachi (China) Research & Development Corporation



2005

- 2006**
 - Confirmation of electro-luminescence phenomena on injection of electrical current in ultra-thin silicon film
 - Basic experiment on the application of Optical Topography as a brain-machine interface
 - Mass production of 2.5-inch HDD using perpendicular magnetic recording technology

- 2007**
 - Prototype of world's smallest noncontact RFID powder IC chip (dimensions 0.05 mm x 0.05 mm)
 - Prototype of the 2-Mbit non-volatile SPRAM chip using magnetization reversal by spin injection
 - Developed EMIEW 2, a small and lightweight interactive robot

- 2008**
 - Developed lithium-ion battery system technology for use in high-speed diesel hybrid trains
 - Developed technology for small but highly efficient electric motors that do not use rare metals

- 2009**
 - Prototype 3-kV-class SiC diode
 - Developed vehicular lithium-ion battery
 - Developed thin-type finger vein authentication technology



2009