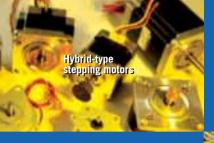
Minebea Up Close

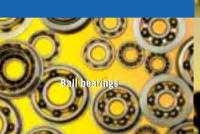
Electronic Devices and Components Rotary Components





Machined Components

Bearings and Bearing-Related Products

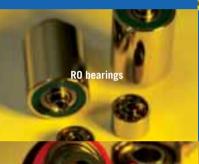


PM-type stepping motors



DC brushless motors

VR resolvers







Pivot assemblies

Other Electronic Devices

and Components

Speakers



PC keyboards







Other Machined Components

Magnetic clutches and brakes







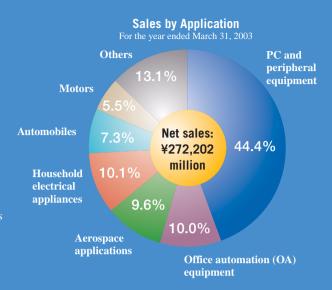
Principal Products

Applications

Minebea is the world's largest manufacturer of small ball bearings, up to 22mm in external diameter, and has a global market share in excess of 60%. The Company also manufactures a broad range of small motors and other electronic components for which it also enjoys a significant competitive advantage.

Bearings, the core product group in Minebea's Machined Components business segment encompasses standard ball bearings; integrated-shaft ball bearings and RO bearings, for high-end applications; and fluid dynamic bearings, which deliver outstanding quietness and robustness. The Company is positioned to respond swiftly and accurately to customers' needs for quality, manufacturing costs and supply for all of these products. Minebea is also a leading global manufacturer of bearings for highly demanding applications, such as rod-end and spherical bearings, which are used primarily by the aerospace industry.

In addition to mainstay HDD spindle motors, Minebea's Electronic Devices and Components business segment includes fan motors and stepping motors, which maximize the ultraprecision machining and mass production technologies Minebea has accumulated as a manufacturer of small bearings and have given the Company outstanding competitiveness in the electronics market. This competitiveness is also evident in other products in this segment, including PC keyboards and measuring components.



Miniature and Small-Sized Ball Bearings



Each ball bearing comprises an outer ring, inner ring, balls, retainers, shields and snap rings. Essential to high-precision motors and other rotary components, ball bearings determine rotational accuracy. The average motor contains two ball bearings. Minebea manufactures more than 8,500 different types of miniature and small-sized ball bearings, most of which have external diameters of 22mm or less.

RO Bearings



RO bearings are high-precision bearings developed by Minebea for use in HDD spindle motors. Each RO bearing features two raceways on the inside of the outer ring and one each on the shaft and the inner ring fitted on the shaft, essentially combining the functions of two bearings in one. In addition to preventing misalignment and minimizing Non-Repeatable Run Out (NRRO), RO bearings facilitate more compact motor designs.

Fluid Dynamic Bearings



In a fluid dynamic bearing, a thin layer of oil or other lubricant is injected between the shaft and sleeve. The structure of the bearing features a rotating shaft, which generates a hydrodynamic force, causing the shaft to float. The noncontact construction of this bearing makes it particularly suited for improving rotational accuracy and enhancing quietness and robustness. The ultraprecision machining and mass production technologies Minebea has cultivated as a manufacturer of ball bearings also ensure a sharp competitive edge in terms of quality and manufacturing costs of fluid dynamic bearings.

Integral-Shaft Ball Bearings



An integral-shaft ball bearing has two raceways on the shaft, allowing the integration of the inner ring and shaft of two ball bearings. This facilitates more precise rotation than is possible with two independent ball bearings, making integrated-shaft ball bearings particularly suited to applications such as cylinder units for video cameras.

Pivot Assemblies



Pivot assemblies are fitted into the base of actuators to position HDD magnetic heads. Minebea enjoys the top share of the global market for these components Standard pivot assemblies combine one or two ball bearings between a shaft and a graded sleeve.

Journal Bearings



Journal bearings are used in helicopters primarily in the main rotor axes, and landing gear for fixed wing aircraft.

Rod-End Bearings



Used in aircraft components, such as wing flaps, engine and wing mounts and hatches, rod-end bearings function as joints. These bearings are also used extensively in helicopters, trains and extensively in the components.

Precision Machined Parts

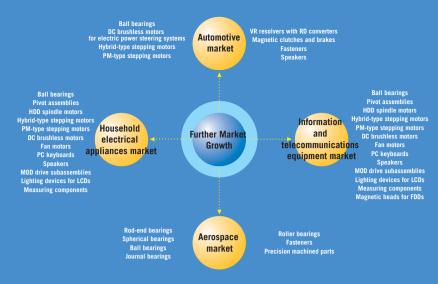


These parts combine bearings and other machined components and are used primarily to join aircraft parts together.

Markets

When Minebea started out, it primarily supplied bearings for use in aircraft instruments and dental handpieces. The advent of the videocassette recorder (VCR) in the 1970s, OA equipment in the 1980s and PCs and information and telecommunications equipment in the 1990s, however, spurred market expansion and demands for ever-higher performance, a trend that boosted demand for Minebea's ball bearings, small motors and other ultraprecision components.

In addition to continued growth, these markets are expected to see demand rise for products that offer increased energy efficiency, safety and convenience. Accordingly, demand for precision motors and control sensors is rising, particularly from manufacturers of automobiles, information and telecommunications equipment—such as cellular phones and mobile devices—and digital household electrical appliances. Accordingly, Minebea expects new opportunities to maximize the competitive edge afforded by its ultraprecision machining and mass production technologies to enhance its responsiveness and cultivate customers in these important markets.



Hybrid-Type Stepping Motors

PM-Type Stepping Motors



used in the paper-feeding devices of printers, copy machines, facsimiles and similar equipment. Hybrid-type stepping motors combine a rotor with a permanent magnet (PM) and a magnetic body and use ball bearings. PM-type stepping motors use a PM as a rotor and contain no ball bearings.

Fan Motors



tion agreement with Matsushita Electric the two companies' technologies will facilitate the development of highperformance and highly cost-competitive

PC Keyboards



Frames, key switches, membrane sheets top and notebook PCs. The Company also markets multimedia keyboards under

HDD Spindle Motors

HDD Spindle Motors with Fluid Dynamic Bearings



spindle motors determines the capacity and speed of HDDs, making these components critical to HDD performance. Accordingly, HDD spindle motors must offer superior performance in terms of rotational speed and low NRRO. Minebea manufactures ball

Lighting Devices for LCDs



for LCDs used in cellular telephones, personal digital assistants (PDAs) and

Speakers/Speaker Boxes



manufacture speakers. Speakers are also fitted into speaker boxes and supplied as

Minebea's Core Competencies

Ultraprecision Machining Technologies

Miniature and Small-Sized Ball Bearings: The Origin of Minebea's Ultraprecision Machining Technologies

The raceway roundness of the inner and outer rings for ultraprecision ball bearings manufactured by Minebea for use in applications requiring high precision, such as VCR cylinders and pivot assemblies for HDDs, is less than 0.05 micron. One micron is 1/1,000th of one millimeter—a particle of cigarette smoke is between 0.01 mm and 1.0 micron. Minebea's ability to mass produce ultraprecision machined products is the root of its competitive advantage.



Ultraprecision machining technologies and mass production of superiorquality products

The level of precision in each ball bearing production process is an essential factor in determining the quality of the finished product.

Minebea conducts all processes in-house, as well as manufactures the dies, jigs, tools and production and assembly equipment used therein. This ensures consistently superior-quality products from Minebea's 10 mass production bases worldwide.

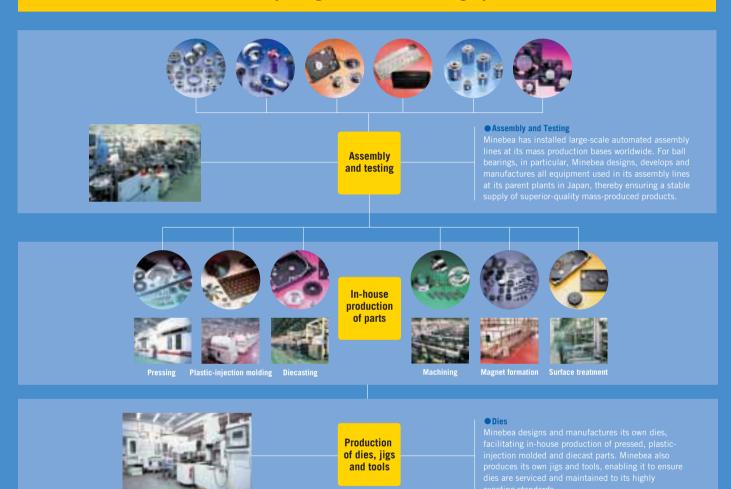


Vertically Integrated Manufacturing System

Minebea's vertically integrated manufacturing system maximizes its ultraprecision machining technologies

The level of precision in each production process is an essential factor in determining the quality of the finished product. Minebea's vertically integrated manufacturing system enables it to conduct all processes in-house—design and development; manufacture and maintenance of dies; production of pressed, plastic-injection molded, diecast and machined parts and ferrites; and final assembly. This system facilitates mass production of Minebea's ultraprecision

Vertically Integrated Manufacturing System



Development of products

Development of materials

Development of

mass production

technologies

and tools

Development of dies, jigs and tools **Development of** maintenance technologies



Development, design, analysis and quality control

Mass Production Technologies

Minebea's vertically integrated manufacturing system facilitates the use of its mass production technologies

Responding swiftly and effectively to the increasingly diverse needs of customers requires unparalleled superiority in terms of supply capabilities and manufacturing costs. All of Minebea's mass production facilities worldwide operate under the same vertically integrated manufacturing system. Productive, organic links between facilities—especially those in Thailand, China and Singapore, which account for approximately 80% of the Minebea Group's production, the parent plant in Japan and global R&D bases—ensure the effective integration of Minebea's vertically integrated manufacturing system and mass production technologies.











Parent Plants





Research and Development

Minebea has established four R&D bases worldwide to, respectively, promote the development of intellectual assets—a key to competitiveness; facilitate the sharing and use of these assets within the Group; enable a smooth transition from development to mass production; and conduct forward-looking R&D. Recently, Minebea absorbed its R&D Headquarters into the newly established Engineering Headquarters, a step that will reinforce technology sharing among Minebea Group companies, encourage forward-looking R&D—contributing to the cultivation of new core competencies and strengthen coordination between R&D and production groups.



Bearing-Related Products. Small Motors

Precision Motors Deutsche Minebea GmbH (Germany)

- Product development
 Engineering
 Production of prototypes
 Quality evaluation



R&D Centers (Thailand and Singapore)



Karuizawa Manufacturing Unit (Japan)



NMB Technologies Corporation Technical Center (USA)



New Hampshire Ball Bearings, Inc. (USA)

- Product developmentEngineeringQuality evaluation



NMB-Minebea UK Ltd. (United Kingdom)

- EngineeringQuality evaluatoin

Electronic Components

Hamamatsu Manufacturing Unit (Japan)

PM stepping motors, DC brushless motors, DC spindle motors, MOD drive subassemblies, magnetic heads for FDDs, lighting devices



PC Keyboards

NMB Technologies Corporation (USA)



Mechatronics Division (Japan)

- Product developmentEngineeringQuality evaluation



Development of Electronics Technologies and Related Products

European Electronics Technology Center (Germany)



Speakers

Minebea Technologies Taiwan Co., Ltd. (Taiwan, China) |

EngineeringProduction of prototypes



Speaker Division (Japan)

- Product developmentEngineeringQuality evaluation



Measuring Components

Measuring Components Division (Japan)

- Product developmentEngineeringProduction of prototypesQuality evaluation



Fasteners

Fujisawa Manufacturing Unit (Japan)

- Product developmentEngineeringQuality evaluation



Defense-Related Special Parts

Omori Manufacturing Unit (Japan)



Minebea has always placed a high priority on environmental protection and continues to take steps to enhance the environmental soundness of its operations worldwide, thereby ensuring that its facilities are welcomed by local communities. All of the Company's manufacturing facilities have obtained ISO 14001 certification, the International Organization for Standardization's standard for environmental management systems.

1991 | 7

Minebea organizes the Anti-CFC Committee with the aim of phasing out the use of specified chlorofluorocarbons (CFCs) and ethane as cleaning agents.

1992 | 3

Minebea represents Japanese corporations in Thailand at the Japan–U.S. Stratospheric Ozone Protection Conference, where it displays a proprietary washing technology that uses purified and deoxidized water rather than specified CFCs or ethane.

1993 | 4

Minebea becomes the first bearing manufacturer in the world to completely eliminate specified CFCs and ethane from all production processes.

(Note: Minebea installed its water-based washing system at all of its plants, at a total cost of ¥5.0 billion, enabling it to terminate use of approximately 145 tons of specified CFCs and 325 tons of ethane monthly worldwide.)

The Anti-CFC Committee is replaced by the Environmental Protection Committee.

1 7

Minebea displays its water-based washing technology at the Ozone Layer Protection Seminar, sponsored by Japan's Ministry of International Trade and Industry (the present Ministry of Economy, Trade and Industry).

8

Minebea formulates its own "Charter for Environmental Protection."

110

Minebea's Thai subsidiaries and the parent company receive the Stratospheric Ozone Protection Award from the U.S. Environmental Protection Agency (EPA).

1995 10

Goro Ogino, then president of Minebea, receives the U.S. EPA's Stratospheric Ozone Protection Award for individuals.



Stratospheric Ozone Protection Award Minebea Electronics & Hi-Tech Components (Shanghai) Ltd. establishes the Shanghai—Minebea Environmental Protection Fund, aimed at protecting the quality of the water in Lake Daishan-hu and the lake's surrounding environment, becoming the first foreign-capitalized company in Shanghai to establish an environmental protection fund. (As of June 2003, the fund is Rmb 11.0 million, approximately US\$1.3 million.)

1 7

Minebea finalizes plans to obtain ISO 14001 certification, the ISO's standard for environmental management systems, at all its plants and begins construction of an environmental management system.

1997 | 4

1996 | 4

The Karuizawa Manufacturing Unit—the principal parent plant—and U.K. subsidiary Rose Bearings Ltd.'s Lincoln plant become the first bearing production facilities to obtain ISO 14001 certification.

C

The Minebea Group is selected as winner of the U.S. EPA's Best-of-the-Best Stratospheric Ozone Protection Award.

10

All of Minebea's plants in Thailand obtain ISO 14001 certification simultaneously.

112

Minebea Electronics & Hi-Tech Components (Shanghai)'s two plants obtain 180 14001 certification.

1998

All of Minebea's plants in Singapore obtain ISO 14001 certification.

| 2

German subsidiary PMDM obtains ISO 14001 certification.

6

Goro Ogino, then president of Minebea, receives the City of Shanghai's Shanghai Environmental Protection Award, in recognition of his contributions to environmental preservation in the city.

Japanese subsidiaries NMB Electro Precision, Inc., and Minebea Onkyo Co., Ltd. (R&D Center), obtain 180 14001 certification.

| 8

The Hamamatsu Manufacturing Unit, the parent plant for electronic components, obtains ISO 14001 certification.

110

The Fujisawa and Omori Manufacturing units obtain ISO 14001 certification.

1999 |

The Kyoto Manufacturing Unit obtains 180 14001 certification.

2

Rose Bearings Ltd.'s Skegness plant obtains ISO 14001 certification.

6

U.S. subsidiary New Hampshire Ball Bearings, Inc.'s Peterborough plant obtains 180 1-001 certification.

$\perp 11$

U.K. subsidiary NMB (U.K.) Ltd.'s Inchinnan Keyboard Printing plant obtains 180 14001 certification.

2001 | 5

The Shanghai–Minebea Environmental Protection Fund is increased to Rmb 11.0 million (approximately US\$1.3 million), from Rmb 7.5 million (approximately US\$900 thousand).

1 7

U.S subsidiary Hansen Corporation obtains ISO 14001 certification.

111

U.S. subsidiary New Hampshire Ball Bearings, Inc.'s Chatsworth plant obtains 180 14001 certification.

2002 | 8

U.S. subsidiary New Hampshire Ball Bearings, Inc.'s Laconia plant obtains (SO 1400) certification. All Minebea Group plants worldwide are now (SO 1400) -certified.

Contributing to Society

Takahashi Foundation

The Takahashi Foundation, named in memory of Takami Takahashi, founder of the Minebea Group, Takami Takahashi, founder of the Minebea Group, was established in 1992 in celebration of the 10th anniversary of the Minebea Group's operations in Thailand. The Foundation began with a fund of 20 million baht (approximately US\$500 thousand), contributed by Minebea Group companies in Thailand. In 2002, the fund was increased to 60 million baht (approximately US\$1.4 million), to commemorate the Minebea Group's 20th anniversary in Thailand.

utes to students at primary school level by initiating a nutritional lunch fund project to ensure the good physical and mental health of needy students.

In addition to supporting the Takahashi Foundation, Minebea Group companies in Thailand have set up a scholarship program for local students in Lon Ruri and

scholarship program for local students in Lop Buri and

Local Industrial Support Programs

localization, local manufacturing subsidiary Minebea Thai Ltd. supports the BOI Unit for Industrial Linkage

Amateur Baseball Association of Thailand

Thailand, in cooperation with the Baseball Federation of Asia and the International Baseball Association,

Shanghai-Minebea Environmental Protection Fund

Minebea Environmental Protection Fund to Rmb 11.0 million (approximately US\$1.3 million), from Rmb 7.5 million (approximately US\$900 thousand). This anniversary of Minebea's founding. Accrued interest from the fund is used to finance a variety of activities. To date, the fund has assisted efforts to plant cherry tree saplings along nearby Highway No. 318, build green belts in adjacent areas and install chemical toilets in local residences. In May 2001, the fund also donated saplings to the Shanghai Sapling Center. The saplings will later be supplied to the city of Shanghai



Takahashi Foundation students on a Minebea plant tour



Baseball game during the XIII Asian Games Bangkok (ASIAD 98)



Minebea President Tsugio Yamamoto at a ceremony to commemorate increasing the amount of the Shanghai-Minebea Environmental Protection Fund, in May 2001



Sapling donation ceremony at the Shanghai Sapling Center

- Nippon Miniature Bearing Co., Ltd., Japan's 1951 first specialized manufacturer of miniature ball bearings, is incorporated in Azusawa, Itabashi-ku, Tokyo.
- The Company relocates its headquarters to 1956 | 10 Nihonbashi-Kabuto-cho, Chuo-ku, Tokyo, and its factory to Aoki-cho, Kawaguchi, Saitama.
- A new plant is established at Aoki-cho, 1959 | Kawaguchi, Saitama, to serve as the Company's integrated headquarters and factory.
- A representative office is set up in the 1962 | United States to cultivate the U.S. market.
- A factory is established in Karuizawa, Nagano. 1963 Some operations are relocated to the Karuizawa Manufacturing Unit.
- 1965 The Kawaguchi Factory is closed and its equipment is conveyed to Karuizawa. The Company's headquarters is shifted from Kawaguchi, Saitama, to Miyota-machi, Kitasaku-gun, Nagano.
- A representative office is set up in London 1967 to promote business in Europe.
- Subsidiary Nippon Miniature Bearing 1968 Corporation (the present NMB Technologies Corporation) is established in Los Angeles, California.
- Sales subsidiary NMB (U.K.) Ltd. is established 1971 | in the United Kingdom.
 - The Company's stock is listed on the first sections of the Osaka and Nagoya stock exchanges.
 - The Company acquires the U.S. firm Reed Instrument Corp. (the present Chatsworth Plant of New Hampshire Ball Bearings, Inc.) from SKF, Inc., of Sweden and commences production in the United States.
- Manufacturing subsidiary NMB Singapore Ltd. 1972 | is established in Singapore. (Production begins in 1973.)
- 1974 | The Company acquires Shinko Communication Industry Co., Ltd., a major strain gauge manufacturer listed on the second section of the Tokyo Stock Exchange.

Minebea is Incorporated as a Small Factory in Tokyo Minebea was incorporated in Itabashi-ku, Tokyo, in 1951, as Nippon Miniature Bearing Co., Ltd.—Japan's first specialized manufacturer of miniature ball bearings. Initially, the Company had 10 employees. In 1956, Minebea relocated to Saitama. With the aim of substantially expanding its production capacity, in 1963 the Company built a new, large-scale factory in Karuizawa, Nagano, that later became the Karuizawa Manufacturing Unit. In 1965, the Company shifted all production to the Karuizawa Factory. In subsequent years, the Company's operations expanded rapidly, reflecting rising demand and the increasing diversification of its product lineup. Because most production processes were still manual, the Company's payroll increased significantly. Prompted by the realization that it would be unable to secure employees in Japan—a consequence of rapid growth in Japan's manufacturing sector and its own relatively low profile—Minebea decided to build its first overseas factory, in Asia.

- The Company acquires U.S. company IMC 1975 Magnetics Corp., a listed manufacturer of small precision motors.
 - The Company acquires a leading fastener producer, Tokyo Screw Co., Ltd. (the present Fujisawa Manufacturing Unit), and an electromagnetic clutch manufacturer, Shin Chuo Kogyo Co., Ltd. (the present Omori Manufacturing Unit), both of which are listed on the second section of the Tokyo Stock Exchange.
- 1977 The Company acquires Hansen Manufacturing Co., Inc. (the present Hansen Corporation), which is, at the time, the motor manufacturing division of Mallory Corp., a U.S. multinational.
 - Sales subsidiary Nippon Miniature Bearing GmbH (the present NMB-Minebea-GmbH) is established in Germany.
- The Company acquires the Singapore factory of 1980 Koyo Seiko Co., Ltd., and establishes Pelmec Industries (Pte.) Ltd. to manufacture small-sized ball bearings.
 - Manufacturing subsidiary NMB Thai Ltd. is established in Thailand. (Production begins in 1982.)
- 1981 The marketing division of the Company is spun off as subsidiary NMB (Japan) Corporation, which is charged with integrating marketing operations for all manufacturing companies in the Minebea Group.
 - The Company absorbs four of its manufacturing affiliates—Tokyo Screw Co., Ltd., Shinko Communication Industry Co., Ltd., Shin Chuo Kogyo Co., Ltd., and Osaka Motor Wheel Co., Ltd.—and changes its name to Minebea Co., Ltd.
- Sales subsidiary NMB Italia S.r.L. is established 1982 in Italy.
- 1983 | The Company acquires a cooling fan manufacturer, Kondo Electric Works Ltd. (the present NMB Electro Precision, Inc.)
- Two manufacturing subsidiaries, Minebea 1984 Thai Ltd. and Pelmec Thai Ltd., are established in Thailand.

In the latter half of the 1960s, approximately 70% of the ball bearings manufactured at the Karuizawa Factory were exported to the U.S. aerospace market and accounted for approximately 40% of the U.S. market for aerospace-use ball bearings. With the aim of protecting domestic bearing manufacturers, the U.S. government introduced legislation prohibiting overseas firms from supplying defense-related products. In response, in 1971 Minebea acquired a local subsidiary of Sweden's SKF—the world's largest bearing maker—and launched production in the United States.

Singapore's ample labor force, status as an English-speaking country and official efforts to encourage foreign investment prompted Minebea to choose the country in 1972 for its first overseas mass production facility. The Singapore Factory began operating in 1973 and continued to serve as Minebea's principal facility for mainstay products until late in the 1970s, when the flood of foreign firms operating in the country and the imposition of restrictions on the use of non-Singaporean laborers again prompted concern over secure employees and the hunt for another country in which to establish a mass production base.

1985 The Company acquires New Hampshire Ball Joint venture agreement with Papst-Motoren 1993 | Bearings, Inc., a listed U.S. ball bearing GmbH & Co. KG of Germany is cancelled. The manufacturer. Company acquires all outstanding shares in Papst-Minebea-Disc-Motor GmbH and changes the The Company acquires the Miami Lakes company's name to Precision Motors Deutsche operations of Harris Corporation, a U.S. Minebea GmbH (PMDM). manufacturer of switching power supplies. Sales and R&D subsidiary Minebea Trading Pte. The R&D center and subsidiary Minebea 1986 | Ltd. (the present Minebea Technologies Pte. Electronics Co., Ltd., are established in Ltd.) is established in Singapore. Asaba-cho, Iwata-gun, Shizuoka. 1994 Manufacturing subsidiary Minebea Electronics Manufacturing joint venture Thai Ferrite Co., 1987 & Hi-Tech Components (Shanghai) Ltd. is Ltd. (the present Power Electronics of Minebea established in China. Co., Ltd.), is established in Thailand. 1996 A vertically integrated ball bearing production The Company acquires Rose Bearings Ltd., 1988 facility—Minebea's largest to datea U.K. manufacturer of rod-end and spherical commences operations in Shanghai. U.K. subsidiary NMB (U.K.) Ltd. establishes a Sales subsidiary NMB Technologies, Inc. (the new plant in Inchinnan, Scotland. present NMB Technologies Corporation), is established in the United States to coordinate sales 1999 The Company commences quality evaluation and testing at the NMB Corporation Technical and marketing of Minebea's electronic devices. Center in the United States. Manufacturing joint venture Minebea Electronics (Thailand) Co., Ltd., is established. U.S. subsidiaries NMB Corporation and NMB Technologies, Inc., merge to form NMB Manufacturing subsidiaries NMB Hi-Tech Technologies Corporation. Bearings Ltd. and NMB Precision Balls Ltd. are established in Thailand. The Company acquires Kuen Dar (M) Sdn. 2000 Bhd., a Malaysian speaker box manufacturer. Marketing subsidiary NMB France S.a.r.l. (the 1989 present NMB Minebea S.a.r.l.) is established. 2001 A controlling interest in Actus Corporation, a furniture and interior decor product sales 1990 Papst Minebea Disc Motor GmbH (the present subsidiary, is sold to TRS Co., Ltd. Precision Motors Deutsche Minebea GmbH), a joint venture with Papst-Motoren GmbH & Co. 2002 | Huan Hsin Holdings Ltd., of Singapore, and KG, is established in Germany to manufacture Shen Ding Pte. Ltd.—a joint venture between HDD spindle motors. Minebea and Huan Hsin—establishes PC keyboard manufacturing subsidiary Shanghai Rose Bearings Ltd., in the United Kingdom, Shun Ding Technologies Ltd. in China. commences production of ball bearings at its Minebea establishes sales company Minebea Skegness plant. (Hong Kong) Ltd. in China. The Company absorbs Sorensen Ltd. and 1992 | reestablishes it as Minebea Electronics (UK) Minebea establishes sales companies Minebea

Minebea's reasons for selecting Thailand for its second overseas mass production base included the country's abundant supply of workers, the professionalism of Thai employees at its Singapore Factory, the Thai government's efforts to attract component manufacturers and its Buddhist traditions and history of friendly relations with Japan. Realizing that if it took the same approach in Thailand as it had in Japan and Singapore, it would eventually face the same problems securing employees and expanding production capacity, Minebea chose to locate initially in rural Ayutthaya. Since then, the Company has established three additional plants in rural areas. Thailand is currently Minebea's largest mass production base, accounting for approximately 60% of Group production.

Ltd., a manufacturer of switching power

supplies in Scotland.

Minebea's Thai Operations

Net sales:

Cumulative investment: Total site space: Total factory floor space: (Year ended March 31, 2003) ¥152,705 million (As of March 31, 2003) ¥161,884 million 1,466,032 meters² 372,309 meters²

(Shanghai) Ltd. in China.

Operations Begin in China: The Market of the Future To expand its production capacity and take advantage of the growing Chinese market—especially for information and telecommunications equipment and household electrical appliances, which use ball bearings and small motors, as well as to better serve customers shifting production to China, in 1994 Minebea established a subsidiary and commenced operations in Shanghai. Building on its accumulated global expertise, in 1996 the Company completed a state-of-the-art facility that is the world's largest production facility for miniature and small-sized ball bearings and Minebea's second largest mass production base. Minebea plans to further expand the base in the years ahead.

(Shenzhen) Ltd. and Minebea Trading

Minebea's China Operations

Net sales:

Cumulative investment: Total site space: Total factory floor space: (Year ended March 31, 2003) ¥27,454 million (As of March 31, 2003) ¥53,671 million 495,834 meters² 90,203 meters²

