

High-Grade Metal Products and Materials

Creating an uninterrupted stream of high-performance materials by combining innovative ideas with core technologies developed through proven tradition.

The Hitachi Metals Group maintains two long-trusted core technologies: technology for manufacturing high-grade specialty steel, represented by the YSS™ brand, and casting technology used in the manufacture of rolls.

In combining each technology with forward-looking ideas, the Group delivers a range of high-performance materials that anticipate the needs of each era. A supplier to a variety of target markets, Hitachi Metals is active in basic industries including steel, automobiles, energy, and industrial machineries to electronics-related fields that demand constant innovation. In amorphous metals, we are bolstering our lineup of eco-friendly products to help curtail the energy consumption of devices and reduce CO₂ emissions. In addition, the Hitachi Tool Engineering Group maintains strengths in coating technology and supplies high-value-added tools.

High-Grade Metal Products and Materials

Business	Principal Manufacturing Bases / R&D Bases		
High-Grade Metals Company			
Specialty Steel	<ul style="list-style-type: none"> Yasugi Works Hitachi Metals (Suzhou) Technology, Ltd. Hitachi Metals Taiwan, Ltd., Five Ace Factory 	Metallurgical Research Laboratory	Production System Laboratory
Rolls	<ul style="list-style-type: none"> Hitachi Metals Wakamatsu, Ltd. Ceramics Dept. 		
Amorphous Metals	<ul style="list-style-type: none"> Metglas Yasugi Works Metglas, Inc. 		
Hitachi Tool Engineering, Ltd.	<ul style="list-style-type: none"> Narita Works Yasu Works 		

Business Overview

	Manufacturing Bases	Group Companies
High-Grade Metals Company		
Specialty Steel A history of innovation in advanced metallurgical technology and materials development True to our tradition, we strive to consistently refine our material development capabilities. With the same intensity required to create <i>tama-hagane</i> —a high-value-added material produced by the <i>tatara</i> foundry method—we enhance the full luster of the materials we produce. While enhancing steel purity through stringent raw material selection methods, we continue to support the development of a variety of industries by providing highly functional materials.	<ul style="list-style-type: none"> Yasugi Works (Japan) (Yasugi Works and the Metallurgical Research Laboratory are located within the same grounds) Hitachi Metals (Suzhou) Technology, Ltd. (China) Hitachi Metals Taiwan, Ltd. Five Ace Factory (Asia) 	<ul style="list-style-type: none"> Hitachi Metals Tool Steel, Ltd. (Japan) Hitachi Metals Admet, Ltd. (Japan) HMY, Ltd. (Japan) NEOMAX MATERIALS Co., Ltd. (Japan) Hitachi Metals Nanotech Co., Ltd. (Japan) Hitachi Metals Precision, Ltd. (Japan) Hitachi Metals MMC Superalloy, Ltd. (Japan) Hitachi Metals (Dong Guan) Specialty Steel Co., Ltd. (China) HMF Technology Korea Co., Ltd. (Asia) Others
Rolls Advanced roll technological capabilities We boast a wealth of leading brands including HINEX™ rolls for steel mills. We are also engaged in the manufacture of injection-molding machine cylinders, ceramics and applied products, and steel-frame structures as well as related component processing.	<ul style="list-style-type: none"> Hitachi Metals Wakamatsu, Ltd. (Japan) Ceramics Dept. (Japan) 	<ul style="list-style-type: none"> SinterMet, LLC (North America) Baosteel Hitachi Rolls (Nantong) Co., Ltd. (China)
Amorphous Metals Contributing to energy conservation through innovative materials Demand is on the rise worldwide for our Metglas® amorphous metals for use in power transformers, an area with increasing needs for energy conservation.	<ul style="list-style-type: none"> Metglas Yasugi Works (Japan) Metglas, Inc. (North America) 	
Hitachi Tool Engineering, Ltd. The only tool manufacturer in the Hitachi Group Hitachi Tool Engineering boasts outstanding product lineups of various machine tools made of specialty steel and carbide alloys, including tips, cutting tools, and other abrasion-resistant tools. The company commands a leading global position in technology development for end mills that provide the springboard for high-speed processing in Japan.	<ul style="list-style-type: none"> Narita Works (Japan) Yasu Works (Japan) 	<ul style="list-style-type: none"> Hitachi Tool Engineering (Shanghai), Ltd. (China) Hitachi Tool Engineering Europe GmbH (Europe)

Magnetic Materials and Applications

We supply unique products based on advanced new material development and original component design technology.

Cars now contain more and more electronics, their performance is becoming more environmentally friendly, and their various devices have become more energy efficient. We continue to meet these kinds of needs by manufacturing unique products using the materials sector expertise we have developed related to magnetic materials and ceramics.

Starting with our NEOMAX® brand magnets—which have world-class magnetic properties—we offer magnet product lines for practical applications. Furthermore, our unique products in the soft magnetic materials sector include Metglas® amorphous metals and FINEMET™ nanocrystalline magnetic materials. As a world-leading supplier of magnetic materials, we offer pioneering products for use in vehicles, for electromagnetic compatibility and noise measures, and in components for solar power generation, putting the materials' special characteristics to best use.

Magnetic Materials and Applications

Business	Principal Manufacturing Bases / R&D Bases		
Magnetic Materials Company			
Magnets	<ul style="list-style-type: none"> Kumagaya Works Saga Works NEOMAX KINKI Co., Ltd. 	Magnetic Materials Research Laboratory	Production System Laboratory
Soft Ferrite and Other Soft Magnetic Materials, and Their Applications	<ul style="list-style-type: none"> Yamazaki Manufacturing Dept. Hitachi Ferrite Electronics, Ltd. Hitachi Metals Hong Kong Ltd., Pan Yu Factory Hitachi Metals (Thailand) Ltd. 		

Business Overview

	Manufacturing Bases	Group Companies
Magnetic Materials Company		
Magnets As a world-leading supplier of magnetic materials, Hitachi Metals Group supports industry's foundations with its NEOMAX® brand. We boast an extensive line of magnets, including ferrite magnets and NEOMAX® rare earth magnets, and offer products for use in the automotive, electronics, household appliance sectors, among others. As a magnetic materials pioneer, we take on the challenges related to new materials and production technologies to meet customers' various needs and also contribute to achieving energy conservation in our societies.	<ul style="list-style-type: none"> Kumagaya Works (Japan) Saga Works (Japan) NEOMAX KINKI Co., Ltd. (Japan) 	<ul style="list-style-type: none"> NEOMAX ENGINEERING Co., Ltd. (Japan) NEOMAX KYUSHU Co., Ltd. (Japan) Hitachi Metals North Carolina, Ltd. (North America) PT. NX INDONESIA (Asia) San Technology, Inc. (Asia) Dongguan Sumitok-Super Electronics Co., Ltd. (China) Pacific Metals Co., Ltd. (Asia) Hitachi Metals (Thailand) Ltd. (Asia) Others
Soft Ferrite and Other Soft Magnetic Materials, and Their Applications We develop lines of soft magnetic materials products with distinctive characteristics Together with our soft ferrite materials—of which we boast many years of successes—we offer Metglas® amorphous metals, FINEMET™ nanocrystalline magnetic materials, and other distinctive products to many different industry sectors and uses that include everything from portable handsets, IT devices and other electronic components, to car antennas, electromagnetic compatibility and noise reduction components, and solar power generator parts.	<ul style="list-style-type: none"> Yamazaki Manufacturing Dept. (Japan) Hitachi Ferrite Electronics, Ltd. (Japan) Hitachi Metals Hong Kong Ltd. Pan Yu Factory (China) Hitachi Metals (Thailand) Ltd. (Asia) 	<ul style="list-style-type: none"> Hitachi Metglas (India) Pvt. Ltd. (Asia)

High-Grade Functional Components and Equipment

With unparalleled casting technologies nurtured from age-old tradition, Hitachi Metals supplies highly functional high-grade casting components and equipment.

In the field of highly functional high-grade automotive casting components, the Hitachi Metals Group's global product development, production and marketing network has helped supply products that meet local market needs in diverse nations throughout the world. In piping components, represented by products under the ξ ™ (Gourd brand), the Group has led the industry in product development. Hitachi Metals continues to introduce new materials that are highly durable and easy to handle.

The Hitachi Metals Techno Group supplies structural systems for buildings, interior equipment and steel chains for carriage equipment.

High-Grade Functional Components and Equipment

Business	Principal Manufacturing Bases / R&D Bases		
High-Grade Functional Components Company			
Casting Components for Automobiles	<ul style="list-style-type: none"> Kyushu Works Kumagaya Works Hitachi Metals Automotive Components USA, LLC Namyang Metals Co., Ltd. RPS VIKAS Castings Pvt. Ltd. 	<ul style="list-style-type: none"> Moka Works AAP St. Marys Corp. Garima Vikas Metals Pvt. Ltd. 	Casting Technology Research Laboratory Production System Laboratory
Piping Components	<ul style="list-style-type: none"> Kuwana Works Hitachi Metals FineTech, Ltd. Hitachi Metals Precision Instruments (Shenzhen), Ltd. 	Kuwana Works R&D Center	
Hitachi Metals Techno, Ltd.	Kanto Manufacturing Center		

Business Overview

	Manufacturing Bases	Group Companies
High-Grade Functional Components Company		
Casting Components for Automobiles Global development of eco-friendly products Drawing on its roots that date back to Tobata Foundry Co., Hitachi Metals has applied malleable cast iron manufacturing technologies to produce casting components for automobiles. In recent years, we developed HERCUNITE™ heat-resistant exhaust casting components and are striving to meet the growing need for eco-friendly products.	<ul style="list-style-type: none"> Kyushu Works (Japan) Moka Works (Japan) Kumagaya Works (Japan) AAP St. Marys Corp. (North America) Hitachi Metals Automotive Components USA, LLC (North America) Namyang Metals Co., Ltd. (Asia) Garima Vikas Metals Pvt. Ltd. (Asia) RPS VIKAS Castings Pvt. Ltd. (Asia) 	<ul style="list-style-type: none"> Auto-tech, Ltd. (Japan) Moka Technos, Ltd. (Japan) Kyushu Technometal Co., Ltd. (Japan) Seitan, Inc. (Japan) Alcast, Ltd. (Japan) Others
Piping Components Development of ξ ™ (Gourd brand) gas and water piping components When the Tobata Foundry Co., the forerunner of Hitachi Metals, Ltd., shipped its first product in 1910, it bore a ξ ™ (Gourd) symbol. This symbol bore the hopes and aspirations that products would be "tougher, smoother, and aesthetically pleasing." Since this time, the Gourd brand has been widely used in industrial and household fields, as well as overseas markets. Today, the ξ ™ (Gourd brand) is well respected throughout the world.	<ul style="list-style-type: none"> Kuwana Works (Japan) Hitachi Metals FineTech, Ltd. (Japan) Hitachi Metals Precision Instruments (Shenzhen), Ltd. (China) 	<ul style="list-style-type: none"> Hitachi Valve, Ltd. (Japan) Ward Manufacturing, LLC (North America) Others
Hitachi Metals Techno, Ltd. Manufacture of interior equipment, structural systems and related components Hitachi Metals Techno, Ltd. was established in April 1987, following an integration of business divisions within the Hitachi Metals Group. The company manufactures and markets access floor systems, chains for industrial machinery, steel-frame structure components, hydraulic damping apparatus and other construction components. (Equity: Hitachi Metals, Ltd. 64.8%)	<ul style="list-style-type: none"> Kanto Manufacturing Center (Japan) 	<ul style="list-style-type: none"> Hitachi Maxco, Ltd. (North America)

Wires, Cables, and Related Products

We continue to pursue the technology needed to transmit energy and information.

In the realm of wires, cables, and related products, we continually pursue technologies related to energy and information technology. Our business scope is expanding to areas such as wires and cables, automotive products, information systems devices, and metal materials. Our lineup is diverse, from wires and cables used for data transmission and supplying electric power that support social infrastructure to internal wiring products designed to achieve miniaturization and increased functionality in devices of all kinds. We also provide automotive brake hoses and electrical components that improve automotive safety, energy conservation, and over all convenience, as well as IT network devices to support telecommunications infrastructure, thereby contributing to society with superior technologies.

Wires, Cables, and Related Products

Business	Principal Manufacturing Bases / R&D Bases	
Cable Materials Company		
Electric Wires and Cables	<ul style="list-style-type: none"> Takasago Works Hitaka Works Toyoura Works Densen Works 	Cable Materials Research Laboratory
Automotive Products		
Information Systems Devices and Materials		
Metal and Component Products		

Business Overview

	Manufacturing Bases	Group Companies
Cable Materials Company		
Electric Wires and Cables Supplying a wide range of products that contribute to improvements in social infrastructure and moves to downsize equipment and upgrade performance The Cable Materials Company mobilizes its outstanding achievements and rich experience accumulated over the years to build a diverse range of wire products that improve the social infrastructure as well as products that support moves to decrease size and boost performance. This ranges from adoption in electric power facilities to general construction and industrial use. We provide customers with the optimum support by supplying these products.	<ul style="list-style-type: none"> Takasago Works (Japan) Hitaka Works (Japan) Toyoura Works (Japan) Densen Works (Japan) 	<ul style="list-style-type: none"> Hitachi Densen Shoji, Ltd. (Japan) Hokkai Hitachi Densen Kihan, Ltd. (Japan) Tonichi Kyosan Cable, Ltd. (Japan) Hitachi Magnet Wire Corp. (Japan) Tohoku Rubber Co., Ltd. (Japan) Hitachi Cable Fine Tech, Ltd. (Japan) Hitachi Cable MEC-Tech, Ltd. (Japan) Ibaraki Technos, Ltd. (Japan) Hitachi Cable Austria GmbH (Europe) Hitachi Cable (Johor) Sdn. Bhd. (Asia) Thai Hitachi Enamel Wire Co., Ltd. (Asia) Hitachi Cable Philippines, Inc. (Asia) Hitachi Cable Vietnam Co., Ltd. (Asia) Shanghai Hitachi Cable Co., Ltd. (China) Hitachi Cable (Suzhou) Co., Ltd. (China) Shenzhen Hitachi Cable Co., Ltd. (China)
Automotive Products Contributing to better automotive safety, energy savings and convenience On a solid foundation of precisely targeting market needs and mobilizing the materials properties, we develop, manufacture and sell products with guaranteed quality on a global scale, meeting customer requirements. The products we offer include a range of efficient, reliable sensors and power supply harnesses that transmit energy or signals, as well as brake harnesses and hoses.		<ul style="list-style-type: none"> HC Queretaro, S.A. de C.V. (Central and South America) AHCL (Thailand) Co., Ltd. (Asia)
Information Systems Devices and Materials Offering distinctive products and solutions for telecommunications infrastructure We offer a wide variety of cutting-edge products, technology and solutions, such as information network equipment and mobile phone base station antennae systems. We also supply gallium nitride and gallium arsenic compound semiconductor substrates and epitaxial wafers.		<ul style="list-style-type: none"> Hitachi Cable Networks, Ltd. (Japan)
Metal and Component Products Development and supply of a wide array of products, mainly focused on brass Our company is a key player in the development and supply of products perfected on the strength of metal processing and alloy technologies.		<ul style="list-style-type: none"> Hitachi Alloy, Ltd. (Japan)