“Hitachi’s Social Innovation Business combines advanced IT with vast experiences in infrastructure technologies to deliver solutions around the world by engaging in close dialogue with customers to understand challenges and jointly find solutions through ‘collaborative creation’.

In adopting this approach, our goal is to mobilize the collective efforts of the Hitachi Group to deliver innovations that can solve these challenges and lead the way by making a positive impact on our challenging world.”

— Toshiaki Higashihara, President & CEO, Hitachi, Ltd.

Table of Contents

01 Introduction

02 About Hitachi

10 Hitachi’s Unique Position in the IoT-Enabled Era

11 What is Hitachi Social Innovation?

12 Social Innovation in Action

20 Hitachi Group Companies in North America

29 Hitachi At-a-Glance and the Industries We Serve
Hitachi: Delivering New Value for Society

Our world is changing at an ever-increasing pace. Energy and environmental issues, water-related concerns, population explosions and increasing poverty are creating new challenges that can seem insurmountable. Only by coming together, thinking on a global scale, can we create the solutions necessary to resolve these often overwhelming problems.

Since its founding in 1910, Hitachi has aspired to fulfill its mission: to contribute to society through the development of superior, original technology and products. By integrating the infrastructure and information technologies it has created through more than a century of experience, Hitachi provides next-generation solutions in areas like transportation and energy systems to make the planet a safer, smarter, healthier and more secure place.

At Hitachi, we bring together the world’s greatest minds to help breathe life into new possibilities. Through collaborative creation, Hitachi brings thinkers and doers together to drive innovation for a better future. Our advanced Social Innovation Business accelerates collaborative creation with our customers to resolve issues faced by society – combining advanced IT with operational technology (OT) and products and systems to provide total solutions. The shift toward the internet of things (IoT) propels innovation to a new level of possibility with the collection, integration and analysis of data at a level never before imaginable. Lumada, our open, highly flexible IoT platform, incorporates artificial intelligence (AI) and analytics, promoting the creation of a wide range of digital solutions to drive Social Innovation for the benefit of all.

The purpose of this brochure is to introduce you to the diverse market segments in the U.S. that Hitachi Group Companies in North America serve with a broad range of infrastructure, business and consumer products, services and solutions aimed at benefiting customers and society. Browse through the many industry sections to learn more about Hitachi Group Companies in North America offerings in IT, electronic devices, industrial and automotive systems, the biomedical field, and audiovisual and consumer products.

See how Hitachi Group Companies in North America leverage Hitachi’s advanced technologies in IT and OT to create value for society in the U.S. and around the world.
For more than 100 years, Hitachi has developed the social infrastructure that provides the foundation for nearly every aspect of modern life. As one of the oldest technology companies and best-known brands in the world, Hitachi Group Companies innovate, build and manufacture IT and operational technology (OT) around the globe and are leaders in their respective industries. Our IoT solutions provide insights that help organizations make more informed decisions to deliver exceptional outcomes and smarter, safer, healthier and more efficient societies.

Lumada, our IoT core platform, connects physical and digital technologies via data and software intelligence to drive innovation and accelerate digital transformation. As a large, global manufacturing, services and solutions company, we strive to tackle a variety of issues across a wide range of industry sectors that will make life easier tomorrow.

In May 2016, Hitachi announced its 2018 Mid-Term Management Plan, which guides its corporate strategy for the next three years. The company’s goal is to become an innovation partner for the IoT era. The company is applying the vast expertise and resources of its Social Innovation Business to tackle complex societal and business challenges. The 2018 plan focuses on digitalization as Hitachi moves from delivering individual products and systems to customers to connecting these products and systems through digital technologies.

The Hitachi Group shares the Vision to deliver innovations that answer society’s challenges. With our talented team and proven experience in global markets, we can address global challenges in resources, energy and the environment to create a safer, smarter and healthier society. The Hitachi Group Identity articulates the Mission, Values and Vision that are shared by Hitachi Group Companies worldwide. United by this identity, Hitachi Group Companies demonstrate outstanding teamwork that transcends the boundaries of geographic regions and business fields.

Throughout its 100-plus year history, the Hitachi Group’s Mission to contribute to society through the development of superior, original technology and products has been passed to generations of employees and external stakeholders. The Hitachi Group has also fostered its Values of Harmony, Sincerity and Pioneering Spirit, which emulate the Hitachi Founding Spirit. These Values resonate through the way we think and operate, as we collectively strive to deliver solutions that create new value globally.

The mission that Hitachi aspires to fulfill in society
Contribute to society through the development of superior, original technology and products.

The values crucial to the Hitachi Group in accomplishing its mission
Hitachi Founding Spirit: Harmony, Sincerity, Pioneering Spirit

What the Hitachi Group aims to become in the future
Hitachi delivers innovations that answer society’s challenges. With our talented team and proven experience in global markets, we can inspire the world.
Hitachi in North America

Hitachi’s history with North America dates back to 1926, when Hitachi first exported 30 electric fans to the United States. Hitachi America, Ltd. was established in 1959 as a regional subsidiary, and the first Hitachi manufacturing facility in the U.S. opened in 1977. Today, Hitachi’s presence and commitment to the U.S. economy has grown to 15 major research and development (R&D) facilities, 30 main manufacturing sites,¹ 92 Group Companies and over 22,000 employees.²

At Hitachi, we have great faith in the power of technology to advance and transform our lives now, as well as to improve the quality of life for future generations. Hitachi provides sophisticated business and consumer solutions that transform business processes. With operations throughout the Americas, Hitachi offers a broad range of consumer and business products, including industrial equipment and services, automotive products and consumer electronics.

Hitachi’s digital solutions help organizations improve performance by solving real business problems while also addressing significant social problems and environmental issues. We call it Social Innovation – making the world a better place through technology – and it is part of Hitachi’s heritage. Social Innovation starts with an idea: one simple thought that has the power to change the world. At Hitachi, we’re bringing these possibilities to life with advanced technologies like IoT, analytics and artificial intelligence. But we’re not doing it alone. Through unique collaborative creation platforms, we’re bringing thinkers and doers together to accelerate Social Innovation – working smarter, faster and more creatively towards a better tomorrow.

Today, Hitachi Group Companies in North America serve diverse market segments with a broad range of infrastructure, business products, and technology-related services and solutions aimed at benefiting customers and society. Hitachi can count among its major customers and partners numerous Fortune 500 companies, major medical centers and providers, and many federal, state and local governments.

From national security to building infrastructure for sustainable economic growth, Hitachi strives to meet the highest standards needed to support various government entities – and manufacture products, services and solutions that impact every facet of modern life. Through the innovative application of advanced technology, Hitachi is helping to improve both the way we live and the world we live in.

¹ As of March 31, 2018.
² As of June 30, 2018.
Since the beginning, research and development has been the cornerstone on which Hitachi has built its business. Starting with the development of the 5-horsepower motor in 1910, and continuing with the 2016 announcement of EMIEW3, a humanoid robot that provides intuitive customer services in multiple languages, Hitachi research has contributed to solving the problems of the day while looking to society’s future.

Hitachi America Research and Development (R&D) Division is part of the Hitachi Global Center for Social Innovation (CSI). Hitachi America, R&D was established in 1989 as part of Hitachi’s strategy to locate research centers close to industry-leading advanced markets. Over the years, Hitachi America R&D has pursued research with leading business partners and research institutions, supporting many of Hitachi’s backbone businesses, including semiconductors, automotive systems, IT platforms and networks.

Today, Hitachi America R&D is focusing increasingly on pioneering new solutions to drive Social Innovation in the Americas and globally. The Hitachi Global Center for Social Innovation, North America (CSI-North America), was established in 2016 to provide a foundation for collaborative creation with strategic partners in industry and academia. CSI-North America is working with customers to address known and hidden operational issues, leveraging and integrating Hitachi’s deep experience in IT, OT and products to create new solutions to the social challenges of today – and tomorrow.
CSI North America Research Activities

Hitachi America R&D is engaged in research activities that leverage big data analytics, internet of things, artificial intelligence (AI), machine learning and other technologies. These activities are designed to provide the foundation for new solutions that help organizations optimize operations, improve productivity and efficiency, and solve unique challenges. Our Detroit Research Center works closely with customers on OT and product development to introduce new concepts for manufacturing and next-generation vehicles, including vehicle electronics, emission-reducing systems, and vehicle dynamics. Our Silicon Valley Research Center covers key areas such as asset lifecycle management, optimized manufacturing, predictive maintenance and finance.

**Asset Lifecycle Management**

We are developing an integrated asset lifecycle management solution that can reduce non-productive time, improve process and asset utilization, and enable innovation-led growth opportunities. Asset-heavy industries like oil and gas, energy and manufacturing require an end-to-end solution that gives them a holistic view of their assets.

**Optimized Manufacturing**

Focused on shop floor optimization, our manufacturing research activities include operations-related research such as analyzing yield, downtime and traceability, as well as factory health monitoring and reliability analysis of factory assets. By collaborating with customers, we established a suite of AI- and machine learning-based solutions with cutting-edge algorithms to address problems in maintenance, operations and quality. In addition, we continuously collaborate with customers to develop innovative value chain management and IoT solutions for smart manufacturing. With solutions created for manufacturing process digitization, real-time sensing and monitoring, systematic data management and analytics, and intelligent automation control, manufacturers can streamline processes and improve productivity and quality.

**Predictive Maintenance**

We’re bringing new technology to the age-old problems of maintenance and repair for fleets. Our R&D team has developed an end-to-end recommendation system to predict failures before they occur, use operational data to decide on the right time and place of repair, and recommend the best way to reduce cost of repairs and repair mistakes.

**Finance**

Digital Trust means having processes and data that you can rely on. Financial companies are seeking more effective business models by using the latest technologies, including blockchain, machine learning and AI. We have specialist teams dedicated to applying these technologies to solve unique challenges for which there are no commercial solutions.

At Hitachi America, our R&D team is expanding the boundaries of operational excellence through new technologies and solutions that drive new levels of operational efficiency and environmental sustainability.

“Our talented team of highly skilled, multidisciplinary members in the Americas is tackling many societal challenges to achieve a greener environment, more efficient resources exploration, smart manufacturing, smart vehicles, healthcare, agriculture, logistics, fintech, energy and transportation.”

— George Saikalis, Ph.D., Senior Vice President and CTO, Hitachi America, Ltd. – R&D
Hitachi’s Commitment to Sustainability

Hitachi’s obligation to sustainability is as important as Hitachi’s commitment to Social Innovation. Combining Hitachi’s strengths in OT, IT, and product development, the company’s Social Innovation Business is well placed to respond to the issues facing society today and realize a sustainable society with improved quality of life.

In 2015, the United Nations announced 17 Sustainable Development Goals (SDGs). These goals established a comprehensive 15-year plan aimed at ending poverty, fighting inequality and injustice, and tackling climate change. Hitachi’s top management has identified five of these SDGs where Hitachi can have the greatest impact through business strategy.

- Good health and well-being. Ensure healthy lives and promote well-being for all at all ages.
- Clean water and sanitation. Ensure availability and sustainable management of water and sanitation for all.
- Affordable and clean energy. Ensure access to affordable, reliable, sustainable, modern energy for all.
- Industry innovation and infrastructure. Build resilient infrastructure, promote inclusive and sustainable industrialization, and foster innovation.
- Sustainable cities and communities. Make cities and human settlements inclusive, safe, resilient and sustainable.

Hitachi has also identified six additional SDGs linked to its corporate commitment to society. These six SDGs will have an impact on Hitachi’s long-term sustainability as a company, cutting across all areas of its business and management.

“Through its diverse range of current and future business activities, Hitachi will contribute significantly to resolving social and environmental issues and establishing an inclusive, harmonious, and prosperous world. To achieve this, we will continue to promote innovative solutions and collaborative creation with our business partners and stakeholders. At the same time, through responsible corporate conduct, we will reduce and mitigate negative impacts on people and the global environment and actively contribute to achieving global targets like the Sustainable Development Goals.”

—Toshiaki Higashihara, President & CEO, Hitachi, Ltd.
Hitachi’s Commitment to Sustainability (continued)

**Environmental Vision**

Hitachi will resolve environmental issues and achieve both a higher quality of life and a sustainable society through its Social Innovation Business in collaborative creation with its stakeholders.

**The aim of Hitachi’s environmental management**

- Low-Carbon Society (Climate Change Mitigation/Adaptation)
- Resource Efficient Society (Savvy and Recycling Resources)
- Harmonized Society with Nature (Conservation of Ecosystems)

**Long-Term Environmental Targets**

Hitachi’s resolution looking toward 2030 and 2050

**Hitachi Environmental Innovation 2050**

For a low-carbon society

- Through the value chain: CO₂ emissions reduced by 80% by 2050, 50% by 2030 (compared to FY 2010)

For a resource-efficient society

- Build a society that uses water and other resources efficiently with customers and society
  - Efficiency in use of water/resources: 50% improvement compared to FY 2010 in the Hitachi Group

For a harmonized society with nature

- Impact on natural capital: Minimized

**Environmental Action Plan**

Set environmental action items and targets every three years in order to achieve the long-term targets

hitachi.com/sustainability

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The Hitachi Group has been recognized globally for our social responsibility and sustainability investments. For nine years in a row, since 2009, the Dow Jones Sustainability World Index (DJSI World) has listed Hitachi, Ltd. in its leading global sustainability investment index. Four Group companies, including Hitachi Chemical Company, Ltd., were selected for the FTSE4Good Index Series sponsored by the London Stock Exchange. Two Group companies, including Hitachi High-Technologies Corporation, made Morningstar’s SRI Index. Hitachi Chemical was also selected for MSCI’s ACWI ESG Leaders Index.

**Environment**

Hitachi’s environmental activities include Hitachi’s efforts in our own facilities. For example, Hitachi has implemented various energy measures at facilities for Hitachi Computer Products (America), Inc., and Hitachi Vantara International Distribution Center. By improving productivity and actively reducing energy consumption, energy per unit production was reduced by over 30%. Further, to reduce the carbon footprint, 70% of purchased electricity is wind-generated, a 3-acre wildflower plot is nurtured to support pollinators and onsite beehives, and an outdoor classroom and garden was created at a local elementary school to encourage children to conserve the natural environment.

In another example, Hitachi Metals company Waupaca Foundry creates new products out of recycled steel and iron at seven foundry locations. Acquired by Hitachi Metals Ltd. (Tokyo) in 2014, Waupaca Foundry and Hitachi share a long-term commitment to sustainability. The Foundry implemented a 10-year sustainability program in 2010. This award-winning program has a long list of accomplishments including a reduction of its energy intensity by 23.2%, a 55% reduction of total water use and waste reduction with over 75% of byproducts avoiding the landfill entirely. In 2017, one of Waupaca’s locations received the accredited ISO 50001 Energy Management System certification – the first U.S. metalcasting facility to do so. The three locations in Waupaca, Wisconsin, have collectively been named *Modern Casting’s 2018 Metalcaster of the Year* for significant sustainability accomplishments. A focus on sustainability is part of the Waupaca Foundry culture and drives the company toward continuous improvement.

Hitachi’s cultural commitment to environmental sustainability is represented in the Hitachi Environmental Innovation 2050 targets, which aim to realize a low-carbon and resource-efficient society that harmonizes with nature.

Outdoor classroom and garden created at an elementary school to encourage children to engage and conserve the natural environment.
Corporate Social Responsibility

To fulfill our mission to “contribute to society through the development of superior, original technology and products,” we are accelerating our Social Innovation Business to solve global issues. These solutions are aimed at creating a safer, more convenient, comfortable lifestyle and a more sustainable future for people around the world. In our role as a leader in promoting global sustainability, the Hitachi Group is committed to being a good corporate citizen. Hitachi believes that companies should conduct their corporate activities and communications with stakeholders in a fair and open manner, and engage in activities that contribute to long-term social progress. Through our global Corporate Social Responsibility (CSR) activities, including business, Hitachi is engaged in tackling global challenges such as energy, water, urbanization, and education.

In North America, Hitachi engages in community life by cultivating meaningful relationships with local organizations and empowering our employees to devote time and resources to solutions for the community at the local level.

As a technology company, Hitachi is also working to improve STEM Education through Hitachi’s Inspire STEM Education Outreach program which is committed to STEM (Science, Technology, Engineering, and Math) education. Hitachi High Technologies America, Inc., a global leader in the electron microscope industry, has collaborated with national organizations and change leaders in education and workforce development to design a program that provides an opportunity to incorporate a hands on project based experience for learning electron microscopy in the classroom. The outreach program loans a tabletop scanning electron microscope to educators to explore the Nano World. The Hitachi Inspire STEM Program’s goal is to inspire a new generation of achievement in science education and to ensure that students have the skills they need to meet the evolving demands of the workforce. Learn more about this program and initiative by visiting www.inspirestemeducation.us.

Left: Grand Prize Winners. As part of the Los Angeles Times in Education program, the Hitachi, Ltd. Los Angeles office sponsored a student poster contest which was designed to address relevant topics of interest in society today. The theme was to design a robot that would have a positive impact on the community.

Middle: Student from No Limits for Deaf Children exploring fibers to learn about microscopy in boys and girls STEAM class.

Right: Students looking into the world of nanotechnology with the TM 4000PLUS Scanning Electron Microscope through STEM Education Outreach program.
Enterprises today are dealing with disruptive changes caused by mass customization and everything-as-a-service. In this environment, consumers want outcomes that meet their immediate needs, not just products. With the internet of things (IoT), robotics and artificial intelligence (AI) evolving quickly, Hitachi is uniquely positioned to help organizations access their data to deliver the kind of outcomes consumers demand.

Hitachi has been a leader in OT for industries such as manufacturing, energy utilities and transportation organizations for over 100 years, providing solutions that positively impact cities, industrial operations and businesses. The company has also been a leader in IT for over 50 years, bringing applications, analytics, cloud and infrastructure solutions that have transformed the way enterprises do business. Combining Hitachi’s expertise in OT with proven IT innovations and solutions gives organizations a powerful collaborative partner – unavailable in any one company until today.

With an annual research and development budget of $3 billion, Hitachi has the expertise to help organizations extract all the value from their data through solutions and services that achieve tangible outcomes. We offer a robust portfolio of solutions to manage, store, govern, blend, analyze and visualize data to uncover insights and help customers take useful action. These solutions – from edge to outcomes – provide best-in-class data management and analytics intelligence that drive companies forward.

Hitachi delivers strategic solutions such as Lumada, Hitachi’s IoT platform – a highly flexible and composable platform that gives customers simplified management and greater utilization of their assets – on premises or in the cloud. Pentaho, a leading data integration and business analytics platform, delivers enterprise-class, open source-based capabilities for diverse big data deployments. Our adaptable co-creation process delivers end-to-end services for the entire IoT life cycle to accelerate innovation. And solution cores combine our industry and domain knowledge with intellectual property as pre-validated, modular solutions that deliver business outcomes faster.

Data is now a company’s greatest asset – if they know how to use it. Hitachi elevates an organization’s innovation advantage by merging our OT and IT experience to offer unprecedented range and depth of support – all rolled into one global solutions provider.
The challenges around us can seem insurmountable. When we come together, thinking on a global scale, we can create novel solutions to social problems. Through collaborative creation, we are translating brilliant ideas into positive realities. At Hitachi, we strive to create environments and circumstances that foster big-picture thinking – to arrive at better answers to challenges and ensure a better quality of life.

We see the challenges we all face as an opportunity to make a positive impact. Social Innovation is part of our culture. We strive to collaborate with customers, partners, and educational institutions worldwide to accelerate innovations.

Our Social Innovation Business resolves issues faced by society and customers by combining advanced IT with infrastructure technologies, allowing us to provide total solutions. When you have expertise in both, you can innovate change on a global scale.

The Hitachi approach to digital transformation is to deliver positive business and societal outcomes for our customers through collaborative creation of advanced technologies and solutions. Our world is changing, and Hitachi is committed to changing with it. We’re developing solutions and infrastructure to serve the needs of growing urban environments – for the benefit of all.
Social Innovation in Action

Through collaborations with customers, Hitachi is co-creating innovative solutions that solve the challenges customers face and cultivate a positive impact on the world. Here are some examples of Hitachi’s Social Innovation Business in action.

SMART SPACES AND VIDEO INTELLIGENCE
Using data-driven insights to support smarter, safer public spaces and cities

Today, just over 50% of people live in cities globally, but many analysts expect that by 2050 this will reach 75%. In addition, technological disruption is changing business models and the way we experience our cities, schools and other public areas. To address growth and strain, cities and the organizations that support them must be smarter and more efficient in their operations, enhance customer experience and keep people safe.

Public spaces and private enterprises today often have security cameras. Thanks to video intelligence, this data can now generate insights and proactive alerts for transportation and transit, retail and customer experience, and industrial operations, as well as security and public safety. Hitachi Smart Spaces and Video Intelligence is an end-to-end, intelligent and adaptable solution that generates new data, stores and manages it, and integrates data from many sources. It analyzes the data through computer vision, machine learning and business intelligence to provide insight into urban, commercial and industrial areas to make organizations more effective and improve our quality of life.
The internet of things (IoT), with all of its sensors and generate data, has transformed the way we live and work. The ability to collect and analyze data about assets, environments, processes and people makes it possible for organizations to implement data-driven solutions like predictive and preventive maintenance, bringing new opportunities across industries to lower costs and increase operational efficiencies. But the IoT revolution is much more than that.

Hitachi collaborates with companies, educational institutions and governments to co-create innovative solutions for the benefit of all. To meet the challenges facing our growing and changing society, Hitachi is an active participant in the development of technologies for cities that improve business and city operations as well as the quality of life for residents, workers and visitors.

For example, Las Vegas, Nevada, joined forces with Hitachi to enhance its economy by creating a smarter, more efficient city that delivers an improved quality of life and better services to local residents and businesses. Their smart city vision focuses on improving the consumer experience and efficiency of city operations and services through the power of analytics derived from IoT, video and big data – captured, stored, and analyzed by advanced technologies like artificial intelligence (AI). By creating smart spaces, with insights about bike and vehicle traffic, parking, and flows of people in transit stations and on the street, and alerts when parks need cleaning, city leaders can better understand and respond to the challenges facing citizens, businesses and urban planners. The insights gained from this smart cities approach can also help them collaborate with the community to develop more effective, data-driven approaches to enable growth.

Drawing on its rich heritage of innovation, Hitachi collaborates with partners and customers to co-create solutions that improve operational efficiencies and promote sustainable practices that support a safe, healthy, and thriving community—that benefits businesses, citizens and society. The future is up to all of us to create – and IoT is one of the most important tools we need to help us realize our true potential.
HEALTHCARE
Advancing medical technologies with innovative, data-driven solutions

We are dedicated to advancing the quality of healthcare for society, our industry, our clients and the communities they serve. We do this by designing, developing and delivering some of the world’s leading medical technologies and information solutions to improve healthcare efficiency and effectiveness. Leveraging more than 100 years of engineering excellence, we enhance today’s most complex medical technologies and pioneer tomorrow’s breakthroughs.

Hitachi provides caregivers with cutting-edge technologies such as state-of-the-art Particle Therapy equipment. Particle Therapy is considered the most advanced form of radiation therapy, improving care for cancer patients and having a positive impact on patient quality of life both during and after treatment.

We also deliver cloud-based, data-driven digital health solutions that provide actionable insights to treat patients with chronic illnesses such as cardiovascular diseases. With Hitachi’s VidiStar cloud-based image management and analytics platform, healthcare professionals are supported with customizable structured reports and advanced analytics for improved communication that fosters values-based care. Through artificial intelligence (AI), analytics and IoT, practitioners can make more proactive and informed decisions to improve patient outcomes.

Hitachi’s Social Innovation quest is bringing advanced solutions to society’s healthcare needs.
TRANSPORTATION

Rail projects are driving mass transit in the US

What do you do when your city’s mass transit cars are past their prime? You call Hitachi. Hitachi opened a Metrorail manufacturing facility in Miami-Dade County in 2016 that will manufacture 136 rail cars equipped with sensors to alert operators to maintenance issues, which will reduce downtime. Minimizing unplanned rolling stock outages through predictive maintenance is fundamental to ensure stability and reliability throughout transport networks. Advances in smart sensors and IT enable continuous data collection from various systems and subsystems in trains, enabling monitoring of mechanical and electrical conditions, operational efficiency and multiple other performance indicators.

These new capabilities enable planning of maintenance activities with the maximum interval between repairs, while minimizing the number and the costs of unscheduled outages created by system failures. This minimizes not just the maintenance costs of the train, but also the loss of revenues that occur when the line cannot run passenger or freight services. In addition, signals, switches and analytics connect seamlessly to create a safer environment and a better overall passenger experience. With Hitachi driving Social Innovation in the railway sector through digital solutions that connect rail cars with industry-leading safety features, the rail system is safer and more efficient, which benefits everyone.
AUTONOMOUS DRIVING
Next road trip, let the car drive you

Think you’re a good driver? Well, your car might just be better at it. With an average of 20,000 components in today’s automobile—most of them potential sources of data—software, data analytics, and digital technologies are becoming as crucial to car design as engines and interiors. Hitachi is creating new technologies for next-generation automobiles, including tools that assist autonomous vehicles in parking, lane changing and braking. These systems provide analytics that can help automakers measure wear and tear and alert car owners of the need for maintenance.

Hitachi is also creating the components for automobile safety, comfort, convenience and security. Hitachi provides industry-leading automotive vehicle and wireless components, hybrid eco-friendly vehicle components, and safety and drive-control components. Hitachi offers magnets for high performance motor applications and is America’s leading supplier of iron castings to the automotive industry. Furthermore, as a leading provider of in-vehicle information solutions, Hitachi shares its experience with vision-based advanced driver assistance system (ADAS) technologies, cloud connected gateways, and other electronic and telematic control systems.

In addition, Hitachi is an Affiliate Member of the University of Michigan’s Mobility Transformation Center, which operates Mcity, a unique test facility that simulates a broad range of complex driving environments and allows users to test new technologies in a variety of challenging situations. Hitachi leverages Mcity to advance its development of connected car and autonomous driving technologies that can contribute to vehicle value, safety and comfort. So, on that next road trip, you may just want to let go of the wheel and enjoy the ride.
SMART MANUFACTURING

Changing the world with digital innovation and operational excellence

Unlike traditional manufacturing, smart manufacturing is driven by digital innovations such as artificial intelligence, machine learning and cognitive computing that are transforming the industry, creating new opportunities for economic growth. The real focus of the smart, digital manufacturing journey is to provide a new way of looking at your business, technologies, people, processes and physical environment – through a digital lens. By breaking the journey down into a series of discrete steps, Hitachi helps organizations build toward increased understanding, efficiency and effectiveness of their operations and deliver measurable value along the way.

We work with you to co-create solutions that address your biggest challenges – from improving quality to mass customization, from establishing new business models to becoming a sustainability leader. When you bring a digital dimension to your organization, you gain greater control over manufacturing and the supply chain, including the ability to predict and prevent downtime, bottlenecks and defects. You can create robust, predictive intelligence for making business decisions faster and running leaner manufacturing operations.

Hitachi has a long history in manufacturing, improving efficiency and productivity by integrating operational technology (OT) to control and run production systems and information technology (IT) to analyze data on workers, materials, and equipment. From leading-edge compressed air solutions to automated production-line equipment to electrical and electronic industrial equipment and components, you get durable, high-quality equipment.

Not only do we help organizations deliver more customized products and services – faster, at lower cost, with higher quality – we show you how to do it in a way that makes the world a better place to live. Our solutions can reduce your environmental footprint by optimizing water and energy use, and reduce the risk of accidents, improving worker health and safety. Hitachi can evaluate your processes and provide recommendations on where to automate, help you determine the best ways to collect and analyze real-time data and then help you put these insights to work.

Smart manufacturing is here. It’s changing the way the world creates new products, the way people work in factories and how organizations are digitally transforming to reach entirely new levels of operational excellence.
The industrial IoT revolution is underway. We're made for industrial IoT.

You may have heard about the industrial internet of things (IIoT) – the network of physical objects embedded with electronics, software and sensors that enable the collection and sharing of connected data in industries like manufacturing, transportation, energy and healthcare. But how will IIoT transform the way in which we work and live? For nearly a decade, Hitachi has been working to answer this question with a robust portfolio of IIoT data-driven solutions. As one of the few companies specializing in both OT and IT, Hitachi is uniquely poised to drive Social Innovation solutions to deliver smarter, safer and healthier societies. We have the people, capital, patents and partners to pioneer a bright future with IIoT solutions that enable us all to thrive as never before.

Hitachi’s IIoT capabilities drive digital modernization at all levels of manufacturing. We focus on integrating OT and IT data to create predictive analytics that leverage artificial intelligence (AI) to predict and prevent variances across the manufacturing supply chain. This affords our manufacturing operations and our clients the ability to integrate OT with IT data, and utilize AI for predictive analytics with security that protects data from the edge to the cloud. With digital modernization, the pains of missed deliveries go away. For example, digitally modernized facilities can deploy dynamic scheduling, which uses AI to process data in real time – no matter how large the data sets – to optimize resources and schedules. Hitachi delivers digital modernization and predictive manufacturing systems to improve safety, quality, delivery and cost.

For example, Hitachi Video Management Platform enables data-intensive video security and monitoring, advanced analytics and visualization innovations. It allows organizations to improve overall operations and safety with insights into performance, process and utilization around the clock – and around the globe. Hitachi Predictive Maintenance evaluates assets, diagnoses problems using monitoring tools like sensors and image analytics, and advanced algorithms and machine learning to deploy repeatable solutions that optimize asset life cycles. From detecting breakdowns in high-speed rail systems to preventing missed deliveries through real-time scheduling, Hitachi IIoT is driving solutions that benefit business and society.
CONSTRUCTION INDUSTRY

The mining industry is unearthing new opportunities in data

Mining is a rugged operation that typically occurs in tough and remote locations. Historically, extracting minerals and ore from the ground has been both labor-intensive and dangerous. Today, equipment and data-driven technologies are being developed to deliver secure and precise ways of removing these materials from the earth.

Hitachi has been supporting the industry along the way with cutting-edge technologies. We provide the products the industry needs including industrial and heavy construction equipment such as custom metal cast products and parts and a full line of wheel loaders. In addition, Hitachi delivers data-driven solutions such as smart fleet management systems that improve performance by using real-time analytics.

In the U.S., the mining industry has been a leader in capturing and processing big data. Mining companies use sensor arrays for collecting data from trucks, excavators, and other machinery and tagging everything from equipment location, driver identification, and cargo type and weight. Fleet management systems provide real-time analytics from which key insights are gleaned that improve safety and help lower the costs associated with equipment maintenance and downtime.

The mining industry is essential in supporting other industries as well. Resources, including precious metals, will continue to be needed to support the development of Social Innovation solutions such as sustainable solar, wind and tidal power generation. Hitachi is bringing the power of IoT, artificial intelligence, machine learning and data analytics to these industries, which can help bring the world closer to meeting critical global energy reduction targets while improving efficiency, reducing emissions and increasing the safety of mining and construction operations.

With broad research and development resources and depth of experience in the mining industry, Hitachi collaborates with customers worldwide to co-create solutions that optimize operations, improve safety and deliver a more sustainable future for all.
Hitachi in North America

Hitachi is known for the quality, reliability and innovation our customers demand, but there is an even bigger reason why organizations turn to Hitachi – the internet of things (IoT). The volume and complexity of data that companies manage today will be dwarfed in the next few years by what will be generated by IoT. Most industries are also undergoing dramatic transformations as their businesses adopt digital technologies in order to improve work and operations, enhance customer experiences and build better business models. Hitachi Group Companies in North America provide sophisticated business and consumer solutions that transform business processes to meet the demands of the rapidly evolving IoT marketplace. Our joint expertise in both IT and operational technologies (OT) allows us to be your innovation partner in the new digital era.

Automotive Systems and Components

The global automotive products market continues to grow. It is estimated that over 72 million vehicles were sold worldwide in 2015. Since it designed its first generator for Japan’s emerging auto industry in the 1930s, Hitachi has continued manufacturing superior products that serve the automotive business. Today, Hitachi is a leading global automotive supplier, with products recognized for quality, reliability and technological sophistication. Hitachi’s automotive products can be found both under the hood of vehicles and inside the passenger cabin, enhancing vehicle performance and driver experience.

Hitachi delivers solutions that help manufacturers meet new environmental standards, provide cutting-edge in-vehicle information systems, as well as metals and automotive components. From hybrid, electric and fuel cell solutions to entertainment, safety and security products for the automotive, marine, recreational vehicle, commercial fleet and heavy industry environments, Hitachi continues to drive auto industry innovation.

AAP St. Mary’s Corp.
www.aapstmarys.com

AAP St. Mary’s Corp. is a manufacturing subsidiary of Hitachi Metals America (HMA) and a leader in the design, development and manufacture of cast aluminum wheels serving major automotive OEM customers in North America. Its highest quality aluminum wheels backed up by ISO/TS 16949 certification are marketed through HMA.

Clarion Corporation of America
www.clarion.com/us

Clarion has been a global leader in automotive and marine electronics since 1940. The company is engaged in the research, development, engineering, design, manufacturing, marketing and sales of audio, entertainment, navigation and in-vehicle information solutions. The company also specializes in cloud connectivity, communication, and intelligent safety solutions for the automotive, marine, recreational vehicle, commercial fleet and heavy industry environments. As a top tier OEM partner to many automakers and boat builders, Clarion has received numerous awards for design, innovation, support, manufacturing and product reliability.

Hitachi Automotive Systems Americas, Inc.
www.hitachi-automotive.us

Hitachi Automotive Systems Americas, Inc. manufactures, remanufactures and markets a wide range of automotive systems, including engine management, electric power train drive control, and car information systems for major automotive OEMs and aftermarket customers worldwide. The company addresses the technological developments for the realization of next-generation vehicles such as autonomous driving vehicles and connected cars. Hitachi Automotive Systems America has sites throughout North America with sales and engineering in Michigan, headquarters and manufacturing in Kentucky, and additional sales and manufacturing facilities in Georgia, California and Mexico.
Hitachi Cable America, Inc. – Automotive Products Division
www.hca.hitachi-cable.com
Hitachi Cable America’s Automotive Products Division serves the automotive industry with a variety of top quality components, materials and services. The company is an industry leader in fluid movement components such as brake hose assemblies and fluid applications, including hose and tube assemblies. The company also supplies high-technology electrical products such as ABS braking sensors, electric parking brake harnesses, and hybrid electric vehicle wire harnesses, including high and low voltage electrical cables.

Hitachi Consulting Corporation
www.hitachiconsulting.com
Hitachi Consulting is the digital solutions and professional services organization within Hitachi Ltd., a global technology and social innovation leader. Hitachi Consulting is a catalyst for positive business change, propelling organizations to drive disruptive innovation and to accelerate digital transformation. We help organizations leverage data as a strategic asset to innovate faster, develop new revenue streams, and respond to global dynamics with insight and agility. We collaborate with clients to create solutions that help maximize operational efficiency and deliver measurable, sustainable business results.

Hitachi Metals North Carolina, Ltd.
www.hitachimetals.com
Hitachi Metals North Carolina is a manufacturing subsidiary of Hitachi Metals America and produces high-energy ferrite magnets for high performance motor applications primarily serving the automotive industry. Its high-performance permanent magnets are backed up by a world-leading R&D capability and marketed through Hitachi Metals America, Ltd.

Waupaca Foundry, Inc.
www.waupacafoundry.com
Waupaca Foundry, a Hitachi Metals Group company, produces gray iron castings, ductile iron castings, HNMT™ series high-strength ductile iron, and austempered ductile iron castings using state-of-the-art processes and technology. The manufacturer also offers precision machining and assembly for the OEM automotive industry. Waupaca Foundry is North America’s leading supplier of iron castings to the automotive, commercial vehicle, agriculture, construction and industrial markets. Headquartered in Waupaca, Wisconsin, the iron castings components supplier operates seven iron foundries located in Waupaca, Wisconsin; Marinette, Wisconsin; Tell City, Indiana; Etowah, Tennessee; and Lawrenceville, Pennsylvania. The company operates a machining and assembly plant in Effingham, Illinois.

Business Solutions and Consulting
By integrating our IT and OT expertise to create a safer, more secure world, Hitachi continues to further Social Innovation. With proficiency in data collection, analysis and feedback, Hitachi improves operational processes, builds hardware and software for technology foundations, and provides systems integration and cloud services to deliver end-to-end solutions.

The Hitachi Group helps companies keep pace with innovations in IoT that deliver positive commercial and social outcomes. From digital media, security and telecommunications products to education aids and instruments for biological research, Hitachi companies help organizations navigate their digital transformation journey.

Hitachi America, Ltd. – Digital Solutions Division
www.hitachi-america.us/projectors
Business Solutions Group
The Business Solutions Group Digital Solutions Division offers a complete line of LCD and DLP projectors that provide professional-grade performance for all environments. Hitachi provides extremely intuitive, user-friendly projectors for schools (K-12 and collegiate), government, corporate, entertainment and houses of worship. With products that range from portable to installation-grade large-venue models, Hitachi delivers unmatched presentation performance.

Hitachi America, Ltd. – Digital Solutions Division
www.hitachi-america.us/IoT
Security Solutions Group
The Digital Solutions Division’s Security Solutions Group (SSG) provides sales and support for the 3D-LiDAR (ToF) Sensor. The 3D-LiDAR (ToF) Sensor can be utilized in multiple scenarios such as retail, care facilities and manufacturing plants to calculate movement and provide data in real time using infrared beam technology. The measurement is based on the time it takes light to travel to the object and back to the sensor, the “time of flight” (ToF).

Hitachi Consulting Corporation
www.hitachiconsulting.com
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Hitachi Vantara
www.hitachivantara.com

Only Hitachi Vantara combines 100 years of OT with 60 years of IT experience to connect business, human and machine data to create IoT solutions that drive benefits for your business and society as a whole. Over 80% of the Fortune 500 trust Hitachi Vantara for their data-driven solutions. We help them store, protect, enrich, activate and monetize their data with our uniquely designed “data stairway to value” that uses machine learning and artificial intelligence. On premise, in the cloud and as a service. As a case in point, the largest online retailer relies on us to run their most critical applications. And NASA uses Hitachi Vantara to protect and enrich its space imagery – making it more useful for mankind. Let’s talk about your new vantage point.

Hitachi Solutions America, Ltd.
us.hitachi-solutions.com/

Hitachi Solutions America, Ltd. is a business application consulting firm and trusted provider of vertical industry solutions built on the Microsoft Cloud. Our mission is to help our clients compete with the largest global enterprises by using powerful, easy to use and affordable industry solutions.

oXya Corporation
www.oXya.com

oXya is a leader in technical services, managed services, and cloud solutions for SAP clients. With offices and support teams in North America, Western Europe, and Asia-Pacific, and data centers around the world, oXya designs, migrates and runs mission-critical SAP infrastructure and support operations for hundreds of global enterprises and midsize organizations. oXya increases the efficiency and flexibility of these enterprises through a dedicated on-shore or near-shore team of SAP experts organized around the customer’s business. Whether the customer’s SAP and IT systems run on a private, public, or hybrid cloud, oXya experts manage their SAP system and orchestrate the different clouds and their capabilities, to deliver the best SLA/Price ratio for the customer. oXya customers enjoy a unique support model, and benefit from an all-inclusive pricing model. These unique features lead to an astounding 99% of oXya customers being fully satisfied with oXya services (Summer 2018 results).

Wenco International Mining Systems, Ltd.
www.wencomine.com

For more than 30 years, Wenco has improved mine performance using data technology to produce more, stall less and run safely. Mines around the world thrive on Wenco’s solutions, including fleet management for total control, dispatching for easier, automated assignments, machine guidance for precise cutting and filling, and maintenance tools that reduce delays and downtime. Wenco’s latest systems move beyond the pit with smarter, simpler and safer next-generation solutions that leverage analytics, e-learning, intelligent proximity, predictive machine health, autonomous trucking and more.

Consumer Products and Digital Media

While the majority of Hitachi’s products and services are targeted at businesses, several Hitachi Group Companies in North America offer products directly to consumers and thrive in this leaner and more fragmented marketplace. In the U.S., Hitachi offers a diverse lineup of consumer products and services designed to assist with all home improvement projects and help create a theater-quality experience. Within the automobile, Hitachi’s automotive electronics products help ensure safety while adding enjoyment to the journey.

The Hitachi Group Companies in North America deliver consumer products that include top-of-the-line audiovisual and entertainment products to create the ultimate home theater system (televisions, mobile audio and entertainment), communications equipment (high-performance copper and fiber optic cables), and automotive electronics (lenses and batteries).

Clarion Corporation of America
www.clarion.com/us

Clarion has been a global leader in automotive and marine electronics since 1940. The company is engaged in the research, development, engineering, design, manufacturing, marketing and sales of audio, entertainment, navigation and in-vehicle information solutions. The company also specializes in cloud connectivity, communication, and intelligent safety solutions for the automotive, marine, recreational vehicle, commercial fleet and heavy industry environments. As a top tier OEM partner to many automakers and boat builders, Clarion has received numerous awards for design, innovation, support, manufacturing and product reliability. Clarion’s mission is to bring advanced technologies and innovative high-quality products and solutions to users in order to help them improve their quality of life through enhanced productivity, better entertainment and access to always-on cloud-based systems.

Hitachi America, Ltd. – Digital Solutions Division
www.hitachi-america.us/products/consumer/tv

Hitachi America’s Digital Solutions Division provides a variety of high-quality audiovisual products, such as 4K UltraHD televisions, which deliver a sharper and more dazzling picture compared to conventional televisions.

Hitachi Cable America, Inc. – Performance Cable Systems and Materials Division
www.hca.hitachi-cable.com

Hitachi Cable America manufactures data cable for the home and office. Made in the U.S. at our state-of-the-art facility, the company’s high-performance Category 5e, 6 and 6a cables exceed industry standards for electrical and safety performance. These cables are ideal for any local area network, large or small. Hitachi Cable America also provides easy-to-terminate multimode fiber optic cables for customers that require maximum throughput. The company offers support for applications such as PoE, VoIP, gigabit Ethernet and 10 gigabit Ethernet or faster.
Electronic Systems and Equipment

Electronic systems and equipment continue to play a key role in the advancement of society for the betterment of all. The Hitachi Group Companies in North America provide electronic systems and equipment that support the broadcasting industry, as well as motor controllers and power amplifiers for a wide range of industries and applications, including specialized solutions for the mining industry.

Hitachi supplies broadcasters around the world with products such as HD cameras designed for high image quality and ease of use, and transmitters and other systems that ensure reliable and high-quality broadcasting. In addition, Hitachi provides controls for medical applications (such as MRI and surgical hand tools), oil and gas exploration and production, motorized utility vehicles, power generation, rotating instrumentation (such as RADAR and solar collectors) and mechanical testing equipment.

Performance Controls, Inc.
www.pcipa.com

For more than three decades, Performance Controls has been a leader in designing and manufacturing high-performance motor controllers and power amplifiers for customers worldwide. Performance Controls provides products designed or customized to meet the particular needs of customers in a wide range of industries, including medical applications (such as MRI and surgical hand tools), oil and gas exploration and production, motorized utility vehicles, power generation, rotating instrumentation (such as RADAR and solar collectors) and mechanical testing equipment.

Wenco International Mining Systems, Ltd.
www.wencomine.com

For the past 30 years, Wenco has improved mine performance using data technology to produce more, stall less and run safely. Mines around the world thrive on Wenco’s solutions, including fleet management for total control, dispatching for easier, automated assignments, machine guidance for precise cutting and filling, and maintenance tools that reduce delays and downtime. Wenco’s latest systems move beyond the pit with smarter, simpler and safer next-generation solutions that leverage analytics, e-learning, intelligent proximity, predictive machine health, autonomous trucking and more.

Healthcare

In the IoT era, healthcare innovation is promising new forms of treatment that will revolutionize the way societies thrive. From life-saving cancer treatments, to highly sophisticated diagnostic imaging equipment, to allergy testing equipment, to helping doctors and hospitals better manage patient data, Hitachi is dedicated to improving healthcare and medical treatment to make society safer and healthier.

Hitachi is a pioneer in particle therapy technology, an advanced type of cancer radiotherapy utilizing high-energy subatomic particles. In 1998, Hitachi developed its own particle therapy system, which in 2001, began being used for patient treatments at the University of Tsukuba in Japan. Healthcare companies within the Hitachi Group in North America also provide medical imaging, medical diagnostics, patient monitoring systems, performance improvement, drug discovery and biopharmaceutical manufacturing technologies.

Hitachi America, Ltd. – Healthcare Division
www.hitachi-america.us/protonbeam

Hitachi America’s Healthcare Division is dedicated to advancing the quality of healthcare for society, our industry, our clients and the communities they serve. We design, develop and deliver some of the world’s leading medical technologies to improve the efficiency and effectiveness of healthcare delivery. Leveraging over 100 years of engineering excellence, we are advancing today's most complex medical technologies and pioneering tomorrow's breakthroughs. Together with our partners, our efforts in Particle Therapy solutions provide caregivers with the most precise and advanced form of radiation therapy available today. As a result, Particle Therapy offers a painless, non-invasive treatment that allows patients to maintain their quality of life and quickly resume normal activities.

Hitachi Cable America, Inc. – High Performance Medical Solutions

The High Performance Medical Solutions division (HPMS) provides ISO-13485:2016 compliant contract manufacturing services of components and finished medical devices for OEMs worldwide. With manufacturing locations in Rhode Island, Connecticut and New Hampshire as well as overseas cable production in Japan and China, HPMS services a broad range of markets from endovascular to cardiovascular; structural heart; cardiac rhythm management; electrophysiology; neurovascular; pain access; pain management; and ultrasound. Highly specialized products such as catheter tubing (PICC catheters; introducer sheaths; fluid transport tubing; and endoscopic tubing); high performance copper and fiber optic cable suited for harsh environment medical and cleanroom applications; heat resistant plastic optical fiber (POF); low friction cross-linked PTFE; tight pitch, high-density terminations; 3D additive metal printing; and in-house design / fabrication services for medical components and finished assemblies such as extrusion components and downstream extrusion equipment are common to the division.
Hitachi in North America

Hitachi Chemical Advanced Therapeutics Solutions, LLC.
www.hitachi-chem-ats.com
Hitachi Chemical ATS is a global contract development and manufacturing services of Hitachi Chemical that focuses exclusively on the cell therapy industry. They offer industry-leading cell therapy development and manufacturing expertise to accelerate clients progress to market, anticipate and overcome challenges on the way to commercialization, and reduce the overall costs and risks of clients clinical development program.

Hitachi Chemical Diagnostics, Inc.
www.hcdiagnostics.com
Hitachi Chemical Diagnostics (HCD) is a global leader of FDA-Cleared and CE Marked multiplex in vitro allergy diagnostic systems. The company recently launched ExoComplete™, a comprehensive system for exosome collection to mRNA purification – a “Research Use Only” product. The company holds many patents, works with industry leaders, laboratories and distributors in more than 40 countries, and continues to pioneer advancements in the healthcare industry.

Hitachi Consulting Corporation
www.hitachiconsulting.com
Hitachi Consulting is the digital solutions and professional services organization within Hitachi Ltd., a global technology and social innovation leader. Hitachi Consulting is a catalyst for positive business change, propelling organizations to drive disruptive innovation and to accelerate digital transformation. We help organizations leverage data as a strategic asset to innovate faster, develop new revenue streams, and respond to global dynamics with insight and agility. We collaborate with clients to create solutions that help maximize operational efficiency and deliver measurable, sustainable business results.

Hitachi Healthcare Americas
www.hitachihealthcare.com
Hitachi Healthcare Americas delivers best in class medical imaging technologies for healthcare providers. Hitachi’s MRI, CT and Ultrasound provide speed, comfort and quality for both physicians and patients and play an important role in the diagnosis and treatment of disease while driving social innovation into healthcare. Hitachi’s VidiStar image and reporting platform enables healthcare professionals to create value-based reports leveraging a cloud-based image management and analytics platform for improved communication across the healthcare organization. Physicians can grow their business into pediatrics, orthopedics and other unique patient populations while exploring new areas to compete. With an optimized and patient centric approach healthcare providers can deliver strong value into their communities and Hitachi will be there to support them. Innovating Healthcare, Embracing the Future.

Hitachi Vantara
www.hitachivantara.com
Hitachi Vantara helps healthcare organizations gain more efficiency and better health outcomes with secure data management solutions for end-to-end research and patient-care. They centralize patient management and get fast analysis with an enterprise-wide, scalable platform, and accelerate decision making and manage massive life sciences research data sets for the future. Our data management solutions are the lifeblood to make it happen.

High Functional Materials and Components
As an enabling technology, high functional materials and components are essential to the creation of new innovations. Hitachi is working vigorously on the development of materials and components that satisfy the expectations of society. To accomplish this, we draw on a base of original technologies built over many years.

Within the High Functional Materials and Components sector, Hitachi develops and supplies a diverse range of components and materials such as castings, amorphous metals, specialty steels, magnetic materials, wires and cables. We also create copper products, semiconductor and display materials, functional materials and synthetic resin products. All of these play an important role in enhancing the functionality of a broad range of products in the IT, consumer electronics, automotive and other fields.

Hitachi Cable America, Inc. – Performance Cable Systems and Materials Division
www.hca.hitachi-cable.com
In addition to copper and fiber optic communication cables, Hitachi Cable America Inc.’s (HCA) Performance Cable Systems and Materials Division also provides flat and round electronic cables and even a fiber optic rotary joint. Hitachi Cable America offers copper tubing for advanced applications, heat resistant plastic optical fiber (POF), ChannelFlex® flexible flat cabling for robotic applications and a low friction cross-linked PTFE in sheet, rod and block form. Hitachi Cable America has a number of products designed to function at the highest level possible and deliver consistent, reliable performance.

Hitachi Chemical Company America, Ltd.
www.hitachi-chemical.com
Hitachi Chemical Company America provides electronics, automotive and performance products to customers in North America. Offerings include semiconductor-related materials, PWBs base materials, printed wiring boards, capacitors, film products, carbon and ceramic materials, and automotive-related materials. The company was founded in 1975 with headquarters in San Jose, California.
Hitachi High Technologies America, Inc.
www.hitachi-hightech.com/us

Hitachi High Technologies America (HTA) supplies and supports innovative components for industrial solutions, including those for opto communications, renewable energy, and electronic devices. In addition to industrial components, HTA sells and services a broad range of technology-based products, including semiconductor manufacturing equipment, electron microscopes, analytical instrumentation, electronic materials and devices, and systems products.

Hitachi Metals America, Ltd.
www.hitachimetals.com

Hitachi Metals America, Ltd. is headquartered in Purchase NY and is an integral supplier of highly functional component materials that draw on its competitive core technologies. With products that are recognized as leading global brands, it operates in the automobile-, electronics- and industrial infrastructure & energy-related markets, guided by the overarching theme of “global environmental protection.” Applying the key concepts of “eco-friendliness,” “safety” and “comfort,” Hitachi Metals supplies a wide range of automotive-related products. In the electronics-related market, the Company offers a host of items that are “energy-saving,” “compact and lightweight,” and “highly integrated.” In infrastructure & energy-related fields, which encompass equipment for building, housing, and manufacturing and power utilities, “energy savings,” “safety” and “comfort” are key principles underlying a product lineup.

Hitachi Powdered Metals (USA), Inc.
www.hitachi-pm.us/

Hitachi Powdered Metals (USA) is a leading global supplier of precision-engineered powdered metal components used in a variety of highly diverse and competitive industries. The company’s products include valve guide inserts, timing system sprockets and pulleys and variable valve timing (VVT) components, including housings, vanes, rotors and sprockets. The company produces high-volume, advanced-engineered components primarily for automotive, heavy-duty, recreation/ off-highway vehicles and general-purpose engine applications.

Diehl Tool Steel, Inc.
www.diehlsteel.com

Diehl Tool Steel, Inc. (DTS) is an international supplier of quality steel, alloy steel, CPM powder metal, mold steel, carbon steel, stainless steel and aluminum products and services. The products are used in thousands of manufacturing applications, including automotive and aerospace. DTS offers standard and custom cut and machined sizes for tool steel flats, bars, squares, sheets, plates, drill rod, hollow bar and rounds.

Information and Telecommunications

In the IoT era, the world is quickly turning into a data-generating system. As more data is created by business processes, humans and now machines, IT has the burden of managing this data growth with limited resources. At the same time, IT also has the opportunity to help businesses turn that data into useful information that inspires insights and innovation. When it comes to helping IT professionals manage data, derive value from it and contribute to Social Innovation, Hitachi stands with the best. Hitachi Group Companies in North America offer IT solutions that serve a wide range of industries – from telecommunications and data storage products, to consulting services, Social Innovation technologies and advanced analytics. With decades of IT and OT expertise, Hitachi’s IT powers technology leaders around the world.

Hitachi Cable America, Inc. – Performance Cable Systems and Materials Division
www.hca.hitachi-cable.com

Hitachi Cable America (HCA) designs and builds high-speed copper and fiber optic cables to support the most advanced network electronics available, including wired and wireless. With manufacturing facilities in Manchester, New Hampshire, HCA provides reliable platforms to support any and all applications. The company produces cables to support 10 gigabit Ethernet, 400 gigabit Ethernet, Fibre Channel, Infiniband and even supercomputing.

Hitachi Computer Products America, Inc.
www.hitachiomd.com

Founded in 1985, Hitachi Computer Products (America), Inc. is the International Supply Chain Center for Hitachi Vantara, providing supply chain planning management for Hitachi Vantara operations globally. It also manufactures enterprise- and midrange-level storage and server products, as well as providing configuration, distribution and repair operations for IT Infrastructure Solutions sold by Hitachi Vantara in the Americas market.

Hitachi Consulting Corporation
www.hitachiconsulting.com

Hitachi Consulting is the digital solutions and professional services organization within Hitachi Ltd., a global technology and social innovation leader. Hitachi Consulting is a catalyst for positive business change, propelling organizations to drive disruptive innovation and to accelerate digital transformation. We help organizations leverage data as a strategic asset to innovate faster, develop new revenue streams, and respond to global dynamics with insight and agility. We collaborate with clients to create solutions that help maximize operational efficiency and deliver measurable, sustainable business results.
**Hitachi ID Systems, Inc.**
www.hitachi-id.com

Hitachi ID Systems is a leading provider of identity and access management solutions. Hitachi ID software helps over 1,000 organizations with 13 million end users meet security, internal control, regulatory compliance, IT cost reduction and user service objectives. The Hitachi ID Management Suite manages identities, entitlements and authentication factors across both on-premises and SaaS applications in the cloud.

**Hitachi Solutions America, Ltd.**
us.hitachi-solutions.com/

Hitachi Solutions America, Ltd. is a business application consulting firm and trusted provider of vertical industry solutions built on the Microsoft Cloud. Our mission is to help our clients compete with the largest global enterprises by using powerful, easy to use and affordable industry solutions.

**Hitachi Systems Security, Inc.**
www.hitachi-systems-security.com

Hitachi Systems Security Inc. is a Global IT Security Service Provider building and delivering customized services for 24/7 monitoring and protecting the most critical and sensitive IT assets in our clients’ infrastructures. With a relentless focus on risk management, and continuous improvement of our technology and incident response processes, our clients count on us to provide the right solutions for their businesses – quickly, effectively and with expertise beyond the industry standards. Our mission is to deploy information security solutions that protect our customer’s brand and allow them to harness the full potential of connecting people and businesses together to build trusting relationships that can be a catalyst of worry-free collaboration and limitless potential.

**Hitachi Vantara**
www.hitachivantara.com

Hitachi Vantara offers an integrated portfolio of services and solutions that enable digital transformation through enhanced data management, governance, mobility and analytics. We help global organizations open new revenue streams, increase efficiencies, improve customer experience and ensure rapid time to market in the digital age. Only Hitachi Vantara powers the digital enterprise by integrating the best information technology and operational technology from across the Hitachi family of companies. We combine this experience with Hitachi expertise in the internet of things to deliver the exceptional insights businesses and society need to transform and thrive.

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**Power**

For over 100 years, Hitachi has been an innovator in the area of power generation technology, utilizing our expertise and experience to develop highly efficient nuclear, thermal and hydroelectric power systems. Today, Hitachi offers state-of-the-art power generation equipment and technologies that supply cleaner, low-cost electricity. These technologies help preserve vital resources, benefiting not only the customer but society as well.

Hitachi Group Companies in North America power solutions range from energy storage systems, power generation and transmission to distribution and consumption. Additional solutions include specialized environmentally friendly circuit breakers, switchgear and transformers.

**Hitachi Consulting Corporation**
www.hitachiconsulting.com

Hitachi Consulting’s energy solutions are based on an innovative IoT platform that employs edge technologies to gather data and applies analytics and predictive modeling to evaluate and monitor energy use in real-time. It enables organizations to track energy usage, actively manage energy and improve operational efficiency. We work with clients to create dynamic and customizable energy solutions that help meet specific resource saving goals. Hitachi Consulting helps organizations leverage data as a strategic asset to innovate faster, develop new revenue streams, and respond to global dynamics with insight and agility. We collaborate with clients to create solutions that help maximize operational efficiency and deliver measurable, sustainable business results.

**Hitachi T&D Solutions, Inc.**
www.hitachi-tds.com

Hitachi T&D Solutions, Inc. (HTDS) is a premier international supplier of electrical equipment, including 72.5kV-800kV dead tank high-voltage circuit breakers, 72.5kV-800kV gas-insulated switchgear (GIS), large power transformers (above 200MVA) and generator main circuit breakers. One of the company’s significant innovative accomplishments was the introduction of the industry’s first 72.5 kV high voltage dead tank vacuum circuit breaker which eliminates the ozone depleting SF6 gas commonly used in this product. HTDS’s offices and manufacturing facilities are located in of Suwannee, GA providing engineering, procurement, project management installation, maintenance and testing services for all products and parts.

**Metglas, Inc.**
www.metglas.com

Metglas is a subsidiary of Hitachi Metals America and the world’s leading producer of Amorphous Metal Ribbon. Metglas Amorphous Metals have a unique non-crystalline structure and possess excellent physical and magnetic properties that combine strength and hardness with flexibility and toughness. Our Magnetic Alloys are used in the production of distribution transformers, high frequency magnetic components for power
electronics, materials for anti-theft tags and pulse power systems. Metglas and Metglas products help companies around the globe reduce operating costs, strengthen energy conservation efforts and increase application efficiency. Metglas\textsuperscript{\textregistered} Brazing Foils (MBF’s) and preforms provide extensive manufacturing and performance advantages over conventional metal joining materials. This unique form of amorphous nickel based brazing filler metal can substitute for previously used copper foil or nickel powder to braze stainless steel base metal. This amorphous nickel foil provides high strength and outstanding corrosion resistance of brazed joints.

**Social Infrastructure and Industrial Equipment**

At Hitachi, we have faith in the power of technology to advance and transform our lives. Within the industrial sector, Hitachi Group Companies in North America supply sophisticated industrial equipment, components and services for use in pharmaceutical plants, food and beverage processing, steel making, mass transit systems, chemical plants and other manufacturing facilities.

Hitachi industrial technology helps to safeguard public health by creating more efficient water treatment facilities, pollution control systems and food processing facilities. Hitachi’s industrial products and components are integral to some of the world’s most sophisticated infrastructure technologies.

**Ansaldo STS USA**

www.ansaldo-STS.com

For over 130 years, Ansaldo STS USA has been known for leading the development of wayside equipment, vital relays and complete train control systems. Today, Ansaldo STS is applying its unique knowledge to develop advanced rail control systems. Ansaldo STS, headquartered in Pennsylvania, serves rail and transit customers in the North America, as well as Central and South America, with a concentrated focus on transit in China, South Korea and Taiwan. Ansaldo STS is committed to creating innovative products that improve the quality of life and promote sustainability in the world in which we live.

**Bradken**

www.Bradken.com

Bradken is a leading heavy engineering company, specializing in the design, manufacture and supply of cast products. We supply the world’s largest mining and industrial companies with our custom products and parts produced to OEM design and specification. Also serving highly complex specialist industries with our technical knowledge and custom metal casting and fabrication capabilities, we ensure all of our customers get the right solution. With almost 100 years’ experience in the foundry business we offer our customers a full service offering with combined design, manufacturing, maintenance and support services ultimately providing improved operational outcomes and safer work practices.

**Hitachi Consulting Corporation**

www.hitachiconsulting.com

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**H-E Parts International**

www.h-eparts.com/

H-E Parts International (H-E Parts) is a leading independent supplier of parts, remanufactured components and equipment to the global mining, quarrying, heavy construction, and energy sectors. Our divisions offer solutions in support of mobile surface mining equipment, fixed crushing and minerals processing equipment, and mobile construction equipment fleets. At H-E Parts, we provide our customers with a superior alternative to many of the traditional OEM channels by responsively delivering innovative solutions that award the customer with the lowest total cost of ownership.

**Hitachi America, Ltd.**

www.hitachi-america.us

**Industrial Components and Equipment Division (ICED)**

Hitachi America ICED supplies sophisticated electrical and electronic industrial equipment and components for use in pharmaceutical plants, food and beverage processing, steel making, mass transit systems, chemical plants and other manufacturing facilities. Core product areas include oil-free compressors, continuous inkjet printers and variable drives.

**Industrial and Infrastructure Systems Division (IISD)**

Hitachi America IISD distributes a broad range of technologically sophisticated equipment and systems designed to support the advanced engineering needs of industrial and infrastructure facilities today and in the future. IISD equipment and systems support the world’s industry and infrastructure through advanced technologies in the fields of power generation, electrical drive systems, oil and gas, water supplies and treatments, and mass railway transportation. Core product areas include electric motors, industrial compressors, large diameter pumps, power semiconductor products, turbine generators for power stations and wind turbine generators.
Hitachi Cable America, Inc. –
Performance Cable Systems and Materials Division
www.hca.hitachi-cable.com
Hitachi Cable America, Inc. (HCA) manufactures cables that are
used on a daily basis to support important aspects of everyday
life for millions of people. HCA builds subway cables, cell tower
cables and cables used both on trains and in train stations and
yards. HCA also develops and manufactures fiber optic cables
that connect homes and business to the worldwide web. All
Hitachi cables are built to endure extreme conditions and reliably
perform for decades.

Hitachi Construction Machinery Loaders America, Inc.
(HCMA)
www.hitachicm.us
In 2018 Hitachi Construction Machinery Loaders America Inc.
(HCMA) made its debut in the North American market furthering
the commitment of Hitachi Construction Machinery Co., Ltd.
to the North American market by introducing the Hitachi brand
wheel loader line. With manufacturing facilities in Banshu,
Japan; Ryugasaki, Japan, and Newnan, GA., HCMA services
the US and Canadian markets through an extensive full-service
distribution network. Offering a full range of wheel loaders,
outstanding parts availability, an unmatched factory component
exchange program, customer and dealer training programs,
and a wide range of services and programs HCMA services
roadbuilders, aggregate, quarries and gravel pits, agriculture,
landscaping and other material producer markets.

Hitachi Construction Truck Manufacturing, Ltd.
www.hitachi-c-m.com
Hitachi Construction Truck Manufacturing Ltd., Canada (HTM)
is a subsidiary of Hitachi Construction Machinery Co., Japan
(HCM) which produces and sells world-class products for
the mining, construction and quarry industries. HTM is a
manufacturer that sells services for the heavy machinery industry
in the areas of research, development, testing, and sustainable
manufacturing. HTM also provides HCM’s global dealer network
with Hitachi and Euclid dump truck after-sales service and spare
parts support. HTM’s main facility is located in Guelph Ontario.
A field test track with workshop and a warehouse for parts
distribution are based in the US.

Hitachi High Technologies America, Inc.
www.hitachi-hightech.com/us
Hitachi High Technologies America (HTA) supplies and
supports innovative etching and metrology equipment for
the semiconductor manufacturing process. In addition to
semiconductor manufacturing equipment, HTA sells and
services a broad range of technology-based products including
industrial and IT systems, electron microscopes, analytical
instrumentation, electronic materials and devices, and systems
products.

Hitachi Industrial Equipment Marking Solutions, Inc.
www.hitachi-ims.com
Hitachi Industrial Equipment Marking Solutions Inc., (HIMS)
was formed in 2015 by the acquisition of IMS-Partners and the
merger with LA Supply Co. (dba Label House) in 2018. With
decades of combined expertise within the Marking, Coding,
Gluing and Labeling industries, HIMS provides High Quality
products along with Local Service to keep customer production
lines running at a Valued Price.

Hitachi Rail USA, Inc.
http://italy.hitachirail.com/en
Hitachi Rail USA, Inc. is the operating arm of Hitachi Rail Italy
throughout North America. Headquartered in San Francisco,
California, the company specializes in manufacturing,
commissioning and service activities of light and heavy rail
cars. Hitachi Rail USA, Inc. has factories located in Pittsburg,
California and Miami, Florida.

Sullair
http://america.sullair.com
A Hitachi Group Company, Sullair has been on the leading edge
of compressed air solutions for more than 50 years. Sullair was
one of the first companies to use rotary screw technology in air
compressors, and the company made history by teaming up
with Dow Chemical to produce one of the industry’s longest-
lasting compressor fluids. With machines known all over the
world for their legendary durability, Sullair will always be at
the forefront with quality people, innovative solutions and air
compressors that are built to last.

Ward Manufacturing, LLC
www.wardmfg.com
Ward Manufacturing is a subsidiary of Hitachi Metals America
and a leading maker and distributor of piping components used
in thousands of installations worldwide, from upscale homes to
commercial developments, institutional buildings, public utilities
and grand edifices. The company manufactures and distributes
a wide range of malleable and cast-iron pipe fittings and
nipples, and corrugated stainless-steel tubes, through a widely-
established distribution network in the U.S. and Canada.
### Hitachi At-a-Glance and the Industries We Serve

<table>
<thead>
<tr>
<th>Company</th>
<th>Automotive Systems and Components</th>
<th>Business Solutions and Consulting</th>
<th>Components and Devices</th>
<th>Construction Machinery</th>
<th>Durable Products and Medical Devices</th>
<th>Electronic Systems and Equipment</th>
<th>Financial Services</th>
<th>Healthcare</th>
<th>High Technologies</th>
<th>Information and Telecommunications</th>
<th>Power</th>
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The world is changing faster than many of us realize. While environmental, energy, economic and over-population issues continue to mount, new breakthroughs in smart technologies offer the opportunity for lasting Social Innovation. Hitachi is tackling some of the world's most disruptive social challenges with products, services and solutions that also help enterprises gain valuable insights to increase agility and prepare for future changes.

As part of Hitachi, Ltd., Hitachi Group Companies leverage resources, advanced information and operational technology expertise to deliver next-generation solutions that drive innovation across industries and society. Together, these companies bring together diverse experience in IT and OT to address global, national and industry-specific challenges in a way no other company can match.
business card inserted in slits in back pocket