

# UACJ Corporation

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## Leading Aluminum. Leading the Way.

Aluminum offers unparalleled qualities thanks to its lightness and durability, ease of processing and recycling, and heat and electrical conductivity. In everyday life and cutting-edge industry, this versatile material is leading the way.

At UACJ, we are dedicated to creating new value by pursuing the unlimited potential of aluminum. Our goal is to reach an increasingly diverse global market with our products, and through this, to contribute to the long-term development of society.



## UACJ, A New Era in Aluminum

UACJ Corporation was established in October 2013 through a merger between Furukawa-Sky Aluminum Corp. and Sumitomo Light Metal Industries, Ltd. Both companies have long and successful histories as manufacturers of aluminum, supplying products that use its unparalleled qualities to a wide range of industries. As a major global aluminum group originating from Japan, UACJ is dedicated to the realization of an environmentally and ecologically sustainable society. Our exploration of the inherent possibilities of aluminum will help to create a brighter future for our customers, and contribute to growth in both the Japanese and world economies.



## A New Era in Aluminum Metallurgy Begins October 1, 2013

Following approval received at the June 2013 general shareholders' meetings of Furukawa-Sky Aluminum Corporation and Sumitomo Light Metal Industries, Ltd., we are pleased to announce the merger of our companies and the ensuing launch of UACJ Corporation on October 1, 2013.

This merger sets precedence on developing and providing outstanding aluminum products in response to market demand around the world by combining the technological prowess and quality assurance and cost management systems cultivated by our former companies. Acting on the synergies created by integrating these as well as other assets, management resources and product development capabilities, we are ready to pioneer a new era in aluminum metallurgy.

We are confident that the reinforced corporate structure realized through the establishment of UACJ will enhance our competitiveness both in the domestic aluminum rolling business and the global rolled aluminum market. Bringing together advanced technological knowhow accumulated by our former companies, we will proactively work to meet the increasing demand for aluminum in growth industries such as environmental systems and energy, placing a focus on Southeast Asia and other emerging markets. Ultimately, our aim is to become an aluminum industry leader in a competitive global market.

Preparations for the October 1 merger are progressing steadily to ensure that we take full advantage of the company's newly founded strengths and growing presence worldwide. To this end, on behalf of the management and employees of UACJ, we humbly request your continued support and patronage.

**Shigenori Yamauchi**

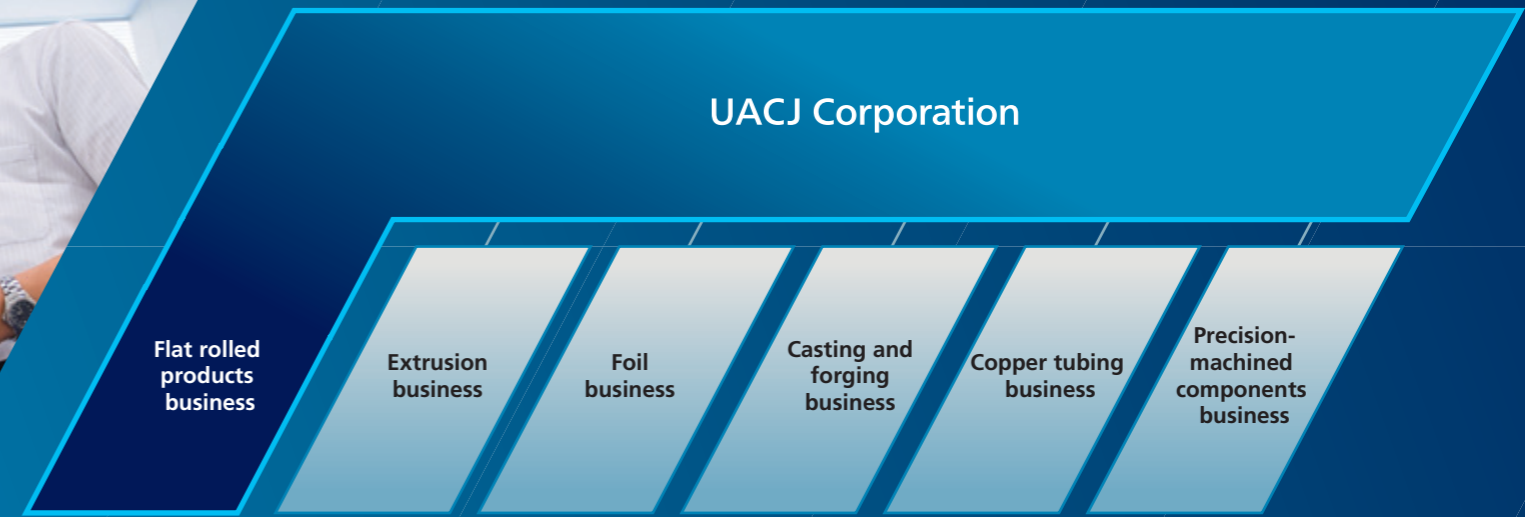
Representative Director &  
Chairman of the Board

**Mitsuru Okada**

Representative Director & President

# Harnessing the strength of the UACJ Group to meet diverse aluminum needs

As a major global aluminum group originating from Japan, at UACJ, we are committed to building a corporate structure that leverages our worldwide strengths to their fullest potential.



The UACJ Group is structured along business unit lines. UACJ Corporation provides oversight and is also responsible for manufacturing and sales in our flat rolled products business. Separate operating companies have been established for other businesses, including extrusion, foil, casting and forging, copper tubing, and precision-machined components. This Group structure allows us to meet the unique needs of each industry in a flexible and timely manner.



## Flat Rolled Products Business

Utilizing World-leading Manufacturing Capabilities to Deliver High-quality Flat Rolled Products

UACJ boasts some of the most advanced aluminum sheet manufacturing capabilities in the industry, including precise thickness control technologies and one of the world's largest rolling mills, measuring 400m long and 4.3m wide. This technological prowess enables us to supply the best products to a wide range of industries.

- Aluminum can stock and closure materials
- Automotive heat exchanger materials
- BiW (Body-in-White) panels
- LNG tank materials
- Aviation and aerospace materials
- IT materials
- Air-conditioner compressor fin materials
- Liquid crystal and semiconductor equipment thick plates
- Litho sheet materials
- Construction plates



Aluminum can stock and closure materials



BiW (Body-in-White) panels



LNG tank materials



Aviation and aerospace materials



IT materials



Air-conditioner compressor fin materials

## Extrusion Business

Utilizing Comprehensive, Industry-leading Technological Prowess to Meet Needs in a Wide Variety of Fields

Supported by engineers highly experienced in manufacturing, molding design and various extrusion processing fields, UACJ utilizes its technological prowess to produce extruded products of the highest quality. Capitalizing on these comprehensive capabilities, we are able to meet the needs of customers from a wide variety of fields such as automotive, industrial machinery, aviation and office equipment. We continuously work to further improve technologies and quality at our production sites in Japan and overseas in order to better meet demands for higher quality.

- Automobile heat exchanger and tubing materials
- Motorcycle frame materials
- Photocopier photoconductive drum materials
- Machine parts materials



Photocopier photoconductive drum materials

Automobile heat exchanger and tubing materials

Motorcycle frame materials

## Foil Business

Utilizing Unparalleled Foil Technologies to Supply Products Designed to Meet the Latest Needs

UACJ produces aluminum and metallic foils of the highest quality for use in a variety of fields. Applications include everything from foil for lithium-ion battery current collectors and packaging for foodstuffs and products in the medical industry to everyday products like foil for use in the home and industrial applications such as electrolytic capacitors.

- Capacitor foil
- Medical industry and chemical products packaging foil
- Foodstuffs and packaging foil
- Lithium-ion battery current collector foil
- Construction foil
- Daily-use foil



Capacitor foil

Medical industry and chemical products packaging foil

Foodstuffs and packaging foil

Lithium-ion battery current collector foil



## Casting and Forging Business

Delivering Highly Competitive Products Utilizing Advanced Technologies and Production Network

In the molding field, UACJ incorporates precise casting technologies in the production of a compressor wheel that is part of a turbocharger that holds the No.1 share of the automotive turbocharger market. When it comes to forging, we operate one of Japan's largest forging presses, uniquely positioning us to meet large-scale forging needs.

- Turbocharger compressor wheels
- Forged products for aviation and aerospace materials
- Forged products for railcars
- Forged products for liquid-crystal production facilities



Turbocharger compressor wheels

Aviation and aerospace materials



## Precision-machined Components Business

Utilizing a Vast Array of Equipment and Technologies in Response to Various Processing Needs

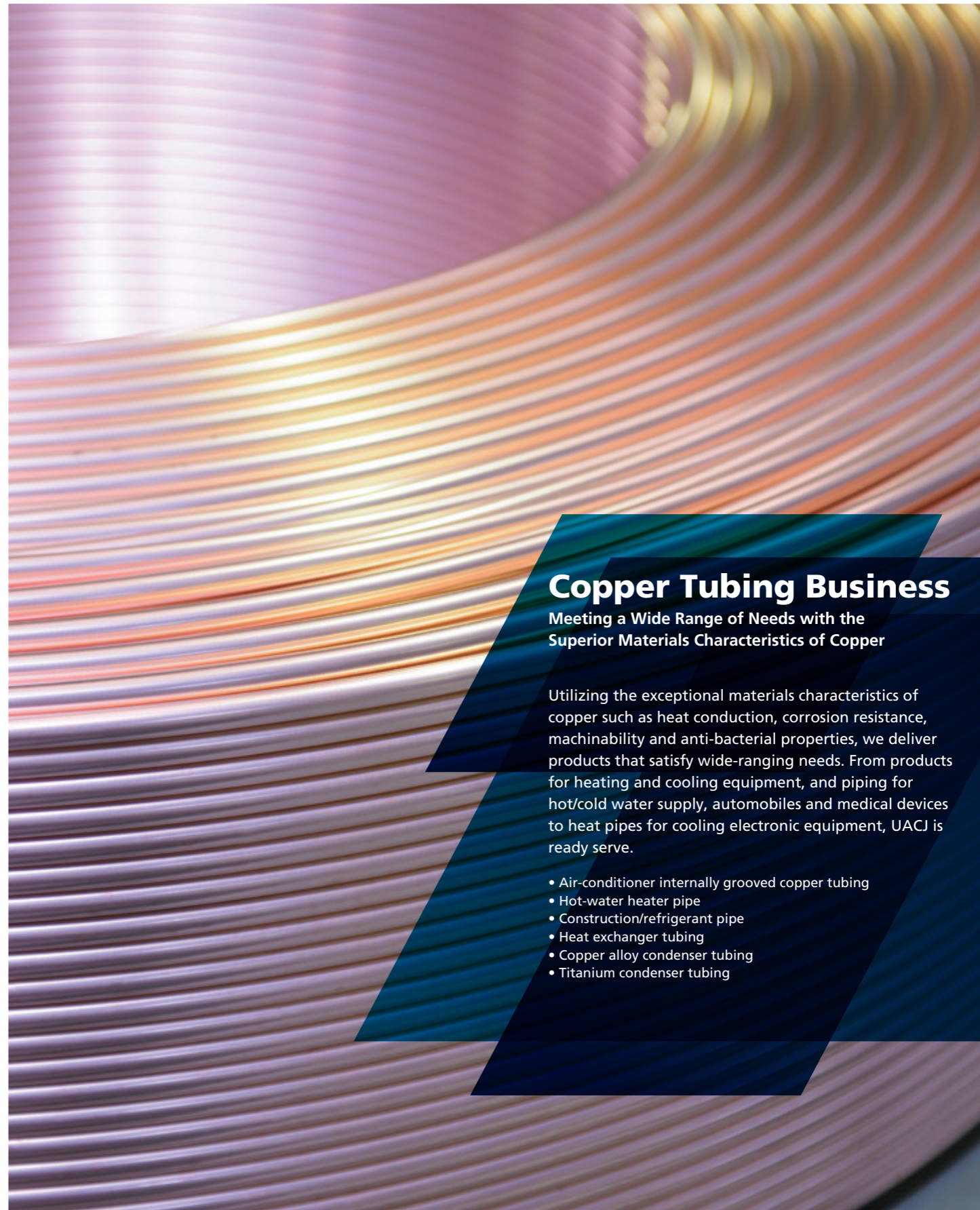
From roll forming processes to joining processes, surface treatment and painting, UACJ has the facilities and technologies to respond to virtually any processing needs. Regardless of size, shape or function required, we're ready to meet the needs of a wide variety of industries.

- Structural products
- Welded products
- Heat dissipation/cooling products
- Functional material products



TOKYO SKYTREE®

Parabolic antenna



## Copper Tubing Business

Meeting a Wide Range of Needs with the Superior Materials Characteristics of Copper

Utilizing the exceptional materials characteristics of copper such as heat conduction, corrosion resistance, machinability and anti-bacterial properties, we deliver products that satisfy wide-ranging needs. From products for heating and cooling equipment, and piping for hot/cold water supply, automobiles and medical devices to heat pipes for cooling electronic equipment, UACJ is ready serve.

- Air-conditioner internally grooved copper tubing
- Hot-water heater pipe
- Construction/refrigerant pipe
- Heat exchanger tubing
- Copper alloy condenser tubing
- Titanium condenser tubing



Air-conditioner internally grooved copper tubing

Copper alloy condenser tubing

Heat exchanger tubing

## Applying Advanced Aluminum Expertise to Create New Innovations

UACJ is continuously developing next-generation products and technologies as we explore the potential of aluminum and create new value in metals. These R&D initiatives are spearheaded by Research & Development Division.



Research & Development Division

### Pursuing New Possibilities for Aluminum

Discovered 200 years ago and used in industry for little more than 120 years, aluminum is a “young” metal with many unknown properties yet to reveal. As we work to unlock these secrets and meet our customers’ diverse needs, UACJ takes a total approach to research and development. This strategy embraces everything from the development of foundational technologies related to material design and manufacturing processes to the development of products and application technologies. We also actively cooperate with the world’s most cutting-edge research facilities to foster new innovation.

### Technology Development Headquarters for the UACJ Group

Research & Development Division is the cornerstone of technology development across the Group. In addition to solving problems faced by individual companies, the center carries out research to address issues experienced by the Group as a whole.



## Maintaining a Global Supply Network to Deliver Products to Regions Worldwide

We are building a global manufacturing and sales network designed to identify products set for market expansion and serve rapidly growing areas.

Centering around our manufacturing bases in Japan, Thailand and the US, we are supplying various products in response to the needs of individual regions worldwide.



### Group Companies (Overseas) (As of June, 2017)

#### Flat rolled products business

- UACJ (Thailand) Co., Ltd. (Thailand)
- Tri-Arrows Aluminum Holding Inc. (USA)
- Tri-Arrows Aluminum Inc. (USA)
- Logan Aluminum Inc. (USA)
- Constellium-UACJ ABS LLC (USA)
- Bridgnorth Aluminium Ltd. (UK)
- RUYUAN DONGYANGGUANG UACJ FINE ALUMINUM FOIL CO., LTD. (China)
- UPIA Co., Ltd. (South Korea)

#### Extrusion business

- UACJ Extrusion (Tianjin) Corporation (China)
- PT. UACJ-Indal Aluminum (Indonesia)
- UACJ Extrusion (Thailand) Co., Ltd. (Thailand)
- UACJ Extrusion Czech s.r.o. (Czech Republic)

#### Foil business

- UACJ Foil Malaysia Sdn. Bhd. (Malaysia)

#### Casting and forging business

- UACJ Foundry & Forging (Vietnam) Co., Ltd. (Vietnam)

#### Copper tubing business

- UACJ Copper Tube (Malaysia) Sdn. Bhd. (Malaysia)

#### Precision-machined components business

- UACJ Metal Components North America, Inc. (USA)
- UACJ Metal Components Mexico, S.A. de C.V. (Mexico)

- UACJ Metal Components Central Mexico, S.A. de C.V. (Mexico)
- UACJ Metal Components (Thailand) Co., Ltd. (Thailand)
- P.T. Yan Jin Indonesia (Indonesia)
- UACJ (Wuxi) Aluminum Products Corporation (China)

#### Others

- UACJ Automotive Whitehall Industries, Inc. (USA)
- UACJ North America, Inc. (USA)

- SHANGHAI UACJ DONGYANGGUANG ALUMINUM SALES CORPORATION (China)
- UACJ MH (Thailand) Co., Ltd. (Thailand)
- UACJ (Shanghai) Aluminum Corporation (China)
- UACJ ELVAL Consulting S.A. (Greece)
- UACJ ELVAL HEAT EXCHANGER MATERIALS GmbH (Germany)
- UACJ Trading (Thailand) Co., Ltd. (Thailand)
- UACJ Trading (Shanghai) Co., Ltd. (China)

- UACJ Trading (Kunshan) Metal Products Co., Ltd. (China)
- UACJ Trading (HongKong) Co., Ltd. (China)
- UACJ Trading (Dalian.F.T.Z.) Co., Ltd. (China)
- UACJ Trading Czech s.r.o. (Czech Republic)
- UACJ Trading (America) Co., Ltd. (USA)
- UACJ Marketing & Processing America, Inc. (USA)
- UACJ Marketing & Processing Mexico, S.A. de C.V. (Mexico)
- UACJ Australia Pty. Ltd. (Australia)
- Boyne Smelters Ltd. (Australia)

## Optimal Production Network Utilizing the Features of Each Manufacturing Site

At factories in Japan, an optimal production network has been established to take advantage of the strengths of each manufacturing site. In tandem with the adjacent research departments and sales offices located nationwide, UACJ is delivering high value-added products that promptly and reliably meet customers' needs.

Fukui Works

Fukaya Works

Nikko Works

Head Office (Tokyo)

Nagoya Works

### Group Companies (Japan) (As of June, 2017)

#### Flat rolled products business

- UACJ Color Aluminum Corporation
- UACJ Fukaya Service Corporation
- UACJ Nagoya Alupack Corporation
- Sansen Co., Ltd.
- Furukawa UACJ Memory Disk Co., Ltd.

#### Extrusion business

- UACJ Extrusion Corporation
- UACJ Extrusion Oyama Corporation
- UACJ Extrusion Nagoya Corporation
- UACJ Extrusion Gunma Corporation
- UACJ Extrusion Shiga Corporation
- Light Metals Extrusion Development Co., Ltd.
- Nihon Cooler Co., Ltd.

#### Foil business

- UACJ Foil Corporation
- Nikkin Co., Ltd.
- UACJ Foil Sangyo Corporation
- UACJ Foil Service Corporation

#### Casting and forging business

- UACJ Foundry & Forging Corporation
- HIGASHI NIHON TANZO CO., LTD.

#### Copper tubing business

- UACJ Copper Tube Corporation
- UACJ Copper Tube Sales Corporation
- Toyo Fitting Co., Ltd.
- UACJ Copper Tube Packaging Corporation

#### Precision-machined components business

- UACJ Metal Components Corporation
- Nalco Koriyama Co., Ltd.
- Sumikei-Nikkei Engineering Co., Ltd.

#### Others

- UACJ Trading Corporation
- Izumi Metal Corporation
- Metal Cut Co., Ltd.
- KAMAKURA INDUSTRY COMPANY LIMITED
- UACJ Marketing & Processing Corporation
- ACE21 Corp.
- UACJ Logistics Corporation

- UACJ System Corporation
- UACJ Green-net Corporation

**Furukawa-Sky Aluminum Corp.**

**1910**  
Started research of aluminum electric wire.

**1921**  
Started research and pilot production of duralumin.

**1933**  
Completed construction of plant for manufacturing aluminum plates in Nikko, Tochigi Prefecture.

**Dec. 1964**  
Established SKY Aluminum Co., Ltd. through a joint venture of Showa Denko K.K., Kaiser Aluminum Corporation (USA), and Yawata Steel Works (currently NIPPON STEEL & SUMITOMO METAL CORPORATION).



Fukui Works at the time of completion

**May 1983**  
Completed construction of strip rolling factory in Mikuni, Fukui Prefecture.

**Jan. 1998**  
Initiated aluminum business tie-up between Furukawa Electric Co., Ltd. and Sky Aluminum Co., Ltd.

**Oct. 2003**  
Established Furukawa-Sky Aluminum Corp. through merger of the companies' aluminum businesses.

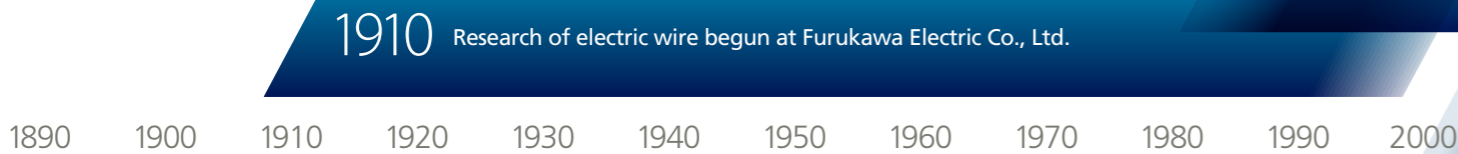
**Feb. 2010**  
Established Furukawa-Sky Aluminum (Thailand) Co., Ltd.

**Aug. 2011**  
Jointly acquired shares with five companies including Sumitomo Light Metal Industries, Ltd. in U.S. rolled aluminum sheet manufacturer and supplier Tri-Arrows Aluminum Inc.



Rayong Works

**Mar. 2012**  
Began construction of aluminum rolling mill in Thailand.



1910 Research of electric wire begun at Furukawa Electric Co., Ltd.

1964 Established SKY Aluminum Co., Ltd.

2003

Businesses merged to create Furukawa-Sky Aluminum Corp.

2013

1897 Established Sumitomo Shindo-jo in Osaka.

1935 Established Sumitomo Metal Industries, Ltd.

1959 Established Sumitomo Light Metal Industries, Ltd.

**Sumitomo Light Metal Industries, Ltd.**

**Apr. 1897**  
Established Sumitomo Copper Rolling Works in Osaka to commence copper rolling operations.

**1898**  
Commenced aluminum rolling operations at same plant.

**Sep. 1935**  
Established Sumitomo Metal Industries Co. Ltd. through merger of Sumitomo Steel Tube and Copper Works and Sumitomo Steel Works Co., Ltd.

**Sep. 1941**  
Constructed Nagoya Light Alloy Works.

**Aug. 1959**  
Copper products and aluminum divisions split of from Sumitomo Metal Industries to form Sumitomo Light Metal Industries Co., Ltd. (commencing operations Sep. 1).



Nagoya Light Alloy Works (currently Nagoya Works)

**Jun. 1966**  
Commenced operation of new aluminum hot rolling equipment.

**Mar. 1969**  
Constructed state-of-the-art copper tube factory (copper rolling works) in the Hoi District of Aichi Prefecture (currently Toyokawa City) to expand wrought copper operations.



Copper tubing works (currently copper tubing works of UACJ Copper Tube Corporation)

**May 1979**  
Established Sumikei Aluminum Foil Co., Ltd.

**Sep. 1993**  
Modernized Nagoya Works aluminum rolling equipment.

**Aug. 2011**  
Jointly acquired shares with five companies including Furukawa-Sky Aluminum Corp. in U.S. rolled aluminum sheet manufacturer and supplier Tri-Arrows Aluminum Inc.

**Oct. 1, 2013**  
UACJ Corporation established by merging the businesses of Furukawa-Sky Aluminum Corp. and Sumitomo Light Metal Industries, Ltd.

**Dec. 2013**  
UACJ Foil Malaysia Sdn. Bhd. established following the acquisition of aluminum foil manufacturing and sales company Hydro Aluminium Malaysia Sdn. Bhd. by consolidated subsidiary Nippon Foil Mfg. Co., Ltd.

**Jan. 2014**  
UACJ Foil Corporation established by merging the businesses of consolidated subsidiaries Nippon Foil Mfg. Co., Ltd. and Sumikei Aluminum Foil Co., Ltd.

**May 2014**  
Signed formal agreement with Constellium N.V. to establish a joint venture company and collaborate in Body-in-White business in the USA.

**Jul. 2014**  
UACJ Trading (America) Co., Ltd. established by consolidated subsidiary UACJ Trading Corporation.

**Oct. 2014**  
Automotive parts manufacturer and seller Iwai Metal Central Mexico, S.A. de C.V. (currently UACJ Metal Components Central Mexico, S.A. de C.V.) began operations.

**Dec. 2014**  
"Global Step I" mid-term management plan announced.

**Aug. 2015**  
Furukawa UACJ Memory Disk Co., Ltd., manufacturer and seller of materials for aluminum memory disk substrates established through a joint venture with Furukawa Electric Co., Ltd., began operations.

**Aug. 2015**  
Integrated production started at the Rayong Works of UACJ (Thailand) Co., Ltd.



**Jan. 2016**  
UACJ ELVAL HEAT EXCHANGER MATERIALS GmbH, sales company of automotive heat exchanger materials for European markets, began operations in Germany.

**Feb. 2016**  
Increased stake in RUYUAN DONGYANGGUANG UACJ FINE ALUMINUM FOIL CO., LTD., a supplier of automotive heat exchanger materials in China, and decision made to establish a joint-venture company, SHANGHAI UACJ DONGYANGGUANG ALUMINUM SALES CORPORATION, a sales company of heat exchanger materials in Shanghai, collaborating with the parent company of the aforementioned entity.

**Apr. 2016**  
Acquired a leading company in the North American automotive aluminum structural materials/parts market and launched it under the name of UACJ Automotive Whitehall Industries, Inc.

**Apr. 2016**  
Established UACJ North American Inc., a regional headquarters in the USA.

**Apr. 2016**  
UACJ Metal Components Corporation formed by merging three group companies: Nalco Iwai, NIKKEI KAKOH Co., Ltd. and Nalco Ena.

**Jun. 2016**  
Constellium-UACJ ABS LLC, a joint venture with Constellium N.V., became operational in the USA.

**Mar. 2017**  
Capital stock increased to ¥52.277 billion.

**Apr. 2017**  
UACJ Marketing & Processing Mexico, S.A. de C.V. a sales company of automotive parts, established in Mexico.

**Company Overview**

**Corporate Name**

UACJ Corporation

**Headquarters**

Tokyo Sankei Bldg., Otemachi 1-7-2, Chiyoda-ku, Tokyo, Japan

**Name and Title of Representatives**

Shigenori Yamauchi, Representative Director & Chairman of the Board  
Mitsuru Okada, Representative Director & President

**Principal Business**

Manufacture and sales of flat rolled products, casting products, forged products and precision-machined products of nonferrous metals, including aluminum and copper, and alloys thereof.

**Capital**

52,277 million yen

**Fiscal Year End**

March 31

**Locations**

**Nagoya Works**

Chitose 3-1-12, Minato-ku, Nagoya-shi, Aichi, Japan

**Fukui Works**

Kurome 21-1, Mikuni-cho, Sakai-shi, Fukui, Japan

**Fukaya Works**

Uwanodai 1351, Fukaya-shi, Saitama, Japan

**Nikko Works**

Kiyotaki Sakuragaokamachi 1, Nikko-shi, Tochigi, Japan

**Chubu Office**

Kanayama Place, Kanayama 1-13-13, Naka-ku, Nagoya-shi, Aichi, Japan

**Kansai Office**

Nakanoshima Mitsui Building, Nakanoshima 3-3-3, Kita-ku, Osaka-shi, Osaka, Japan

**Kyushu Office**

ACROS Fukuoka, Tenjin 1-1-1, Chuo-ku, Fukuoka-shi, Fukuoka, Japan

**Hokkaido Branch**

NREG Kitasanjo Building, Kitasanjonishi 3-1-25, Chuo-ku, Sapporo-shi, Hokkaido, Japan

**Research & Development Division**

Chitose 3-1-12, Minato-ku, Nagoya-shi, Aichi, Japan

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**Toward a Sustainable Future**

At UACJ, we are always aware of our responsibilities as a global corporate group. We continually strive to observe the laws and regulations of the regions where we operate, to respect differing cultures, and to contribute to local communities. As we fulfill our responsibilities as a corporate citizen—to protect our unique natural environment, maintain safety and human rights, and support future generations—we will join with all stakeholders to help realize a more sustainable society.