



September 12, 2018

Press Release

Business Partnership with DAIHEN Corporation

Mitsui Mining & Smelting Co., Ltd. (President: Keiji Nishida; “Mitsui Kinzoku,” hereinafter) is pleased to announce that it has signed a business partnership agreement with DAIHEN Corporation (Head Office: 2-1-11 Tagawa, Yodogawa-ku, Osaka, Japan; Representative Director, President and Chief Executive Officer: Tetsuya Tajiri, “DAIHEN,” hereinafter) with respect to the business utilizing the technology for additive manufacturing using copper alloy powder.

1. Background of the Business Partnership

Mitsui Kinzoku develops, manufactures and sells copper metal powder and functional oxide powder based on the powder control technology associated with particle diameters, particle size distribution, forms, surface treatment and other aspects in the Engineered Powder Division. It works to maintain stable quality and sufficient supply to customers and successively adjust its equipment to the demand trend.

DAIHEN has been constantly creating new value to meet social demand with cutting-edge technologies including transformers, welding machines, industrial robots, high frequency power sources for semiconductor manufacturing systems and power conditioners for solar photovoltaic power generation, and has been contributing to the advancement of the electric power infrastructure that serves as a foundation of everyday life and to the development and evolution of manufacturing around the world. In recent years, it has been working on broadening the arrays of products related to factory energy management systems (FEMS) and non-welding robot applications as well as on the development and market introduction of high efficiency wireless power feed systems.

This business partnership is expected to help expand business domains and revenues with the use of Mitsui Kinzoku’s powder control technology and stable mass production technology as well as the two companies’ expertise in their business areas on the basis of DAIHEN’s own inventions related to copper alloy additive manufacturing methods and products and inventions related to copper alloy powder to be incorporated into them.

2. Outline of the Business Partnership

The outline of this business partnership is as follows.

1) License

Mitsui Kinzoku will hold a non-exclusive license on DAIHEN's inventions related to copper alloy powder in accordance with the business partnership agreement and will manufacture and sell copper alloy powder thereunder.

2) Collection of royalties

Mitsui Kinzoku will engage in the business of collecting royalties from businesses working on DAIHEN's inventions related to copper alloy additive manufacturing methods and products and copper alloy powder as specified in the business partnership agreement.

3) DAIHEN's recommendation on copper alloy powder

DAIHEN will recommend that those businesses that already work or that will work on its inventions related to the copper alloy additive manufacturing methods and products specified in the business partnership agreement should ideally use copper alloy powder manufactured by Mitsui Kinzoku as specified in the business partnership agreement.

3. Profile of the Partner under the Business Partnership

(1)	Company name:	DAIHEN Corporation
(2)	Location:	2-1-11 Tagawa, Yodogawa-ku, Osaka, Japan
(3)	Representative's name and title:	Tetsuya Tajiri, Representative Director, President and Chief Executive Officer
(4)	Business:	Manufacturing and sales of transformers, power conditioners and other electric power related equipment, welding machines, industrial robots, power sources for plasma generation, clean transfer robots and others
(5)	Capital:	10,596 million yen
(6)	Date of establishment:	December 1, 1919

4. Schedule

Date of conclusion of the agreement on the business partnership: September 1, 2018

5. Future Outlook

Mitsui Kinzoku foresees that this move will have a minor impact on its financial results for the current fiscal year. If it is found to have any impact on the financial results in the future, Mitsui Kinzoku will promptly make an announcement.

Under its slogan of Material Intelligence, Mitsui Kinzoku will be working to ensure stable quality and sufficient supply to customers with the use of its power control technology associated with particle diameters, particle size distribution, forms, surface treatment and other aspects and to successively adjust its equipment

to the demand trend.

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