

April 1st, 2019

OSAKA Titanium technologies Co., Ltd.

Our Initiative with Titomic Limited and Marubeni Corporation to Supply and Expand Sales of Spherical Titanium Powder to various industrial networks.

OSAKA Titanium technologies Co., Ltd. (OTC) has signed the following memorandum of understanding (MOU) with Titomic Limited (Titomic), a public company listed on the Australian Stock Exchange who developed a new solid-state additive manufacturing process called Titomic Kinetic Fusion™ (TKF) *and Marubeni Corporation (Marubeni) with regard to supplying and expanding sales of spherical titanium powder.

1. Summary of MOU with Titomic and Marubeni

- OTC will supply high-quality spherical titanium powder suitable for TKF systems.
- OTC and Titomic to discuss on development to enable new commercial opportunities through the supply large volume of Titanium powder to various industries.
- The three companies will cooperate to promulgate TKF systems in various industrial fields, including for aerospace use through the sales networks of Titomic and Marubeni, and expand sales of OTC's spherical titanium powder.

OTC is one of the world's leading manufacturers of high-quality titanium sponge. Our spherical titanium powder TILOP (titanium low oxygen powder) has superiority in terms of quality since it is manufactured by using OTC's sponge as a raw material. We are planning to increase our TILOP production capacity with a new plant in 2020. We have high hopes for the current initiative aimed at supplying and expanding sales of spherical titanium powder for fields where TKF systems are used to open up possibilities for new uses not yet known today.

2. Regarding Titomic and Marubeni

(1) Titomic Limited (Melbourne, Australia) <http://www.titomic.com/>

- Established in 2014. Listed on the Australian Securities Exchange in 2017 with huge success.
- Titomic is positioned to change the value proposition of Titanium, to unlock new applications and open opportunities that are now technically and economically viable with its proprietary TKF technology platform.
- TKF is a patented process which enables to manufacture industrial scale, large size Titanium parts for various industries with speed and significant cost saving compared to traditional fabrication technologies for Titanium. TKF overcomes the limitations of additive manufacturing (3D printing) for Titanium to manufacture complex parts without shape or size constraints.

(2) Marubeni Corporation (Tokyo, Japan) <https://www.marubeni.com/>

- Established in 1949. Listed on the First Section of the Tokyo Stock Exchange
- Areas of business: The import and export, and trade within Japan, of foodstuffs, consumer goods, materials, energy and metals, electricity and plants, transport aircraft, etc. Also provides various services, domestic and international business investment, resource development, etc.

* Titomic Kinetic Fusion™ (TKF) : Unlike other additive manufacturing technologies, the TKF technology makes deposition possible in normal atmosphere using supersonic spraying without melting the powder. It enables large parts to be manufactured, and the lack of thermal strain means there is no deformation in post-heat treatment. The production rate is extremely high with one TKF system spray head depositing up to 45kg of metal material per hour, whilst allowing for formation of composite materials possible.

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