

Press release

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First TCT Turbocharger Rolls off Production in Japan

TCT40 unit built under licence by Mitsui

At the MITSUI E&S Co., Ltd. Tamano factory on September 19th, 2025, Everllence took part in a ceremony to mark the first-ever TCT turbocharger to be produced under license in Japan – a TCT40 unit.

Attendees included Ichiro Tanaka, Director of MITSUI E&S Co., Ltd., Assistant to President, and in charge of Marine Propulsion Systems Div. and Logistics Systems Div.; and Dr Daniel Struckmeier, Managing Director of Everllence Japan Ltd., Head of Sales for License Turbocharger & Exhaust Gas Treatment APAC.

As one of the largest, marine, two-stroke engine builders in the world, MITSUI E&S Co., Ltd. has been an Everllence turbocharger licensee since 1981. In 2022, it successfully concluded negotiations to build Everllence's new TCT axial-turbocharger series, replacing the older TCA turbocharger for two-stroke engines.

While production in Japan is beginning with the TCT40 model, it intends to progressively add other sizes in the TCT range over time. The turbochargers will be installed on MITSUI-manufactured Everllence two-stroke engines.

Tanaka said: "Since entering into a licensing agreement with Everllence in 1981, we have manufactured and sold over 4,000 MITSUI-Everllence turbochargers over the past 40 years. It is a great pleasure to commence production of the latest turbocharger, the 'MITSUI-Everllence TCT40' under this license. We deeply appreciate the strong partnership between the two companies and the dedicated efforts of everyone involved. We look forward to continuing our successful collaboration in the years to come."

Struckmeier said: "This is a significant milestone that has been coming since our two companies signed the TCT licence agreement, enabling MITSUI E&S Co., Ltd. to bring our latest turbocharger technologies to the market. At the same time, we know that many Japanese customers prefer products that are manufactured domestically. Local production helps build trust, ensures faster delivery, and aligns with customer expectations for domestic sourcing. We are very happy with developments and are confident that it will further enhance the appeal of MITSUI E&S Co., Ltd. within the two-stroke engine segment while highlighting the strength of the TCT series."

The TCT series

Everllence launched the TCT turbocharger series in 2019, starting with the TCT40, and subsequently followed by the TCT30, TCT50 and TCT60. Ultimately, the series will comprise six frame-sizes including TCT70 and TCT80 units.

The newly developed radial compressor and axial turbine are key components of the series. Both have been developed with new design features, backed by the latest simulation technologies, resulting in a very compact and lightweight turbocharger design. Thanks to its superior charging efficiencies, wide compressor maps and ample matching options, TCT turbochargers can easily be matched to engines. Their variability covers not only a wide range of engine-tuning options and fuel types, but also all new requirements of today's exhaust-gas after-treatment systems for IMO Tier III operations.

In general, TCT turbochargers offer the following features:

- long TBOs – high performance bearings;
- maintenance-friendly service concept resulting in low life-cycle costs;
- highest specific flow rates, resulting in a compact and lightweight design;
- lowest noise emissions;
- highest efficiency levels.

For two-stroke engines, TCT-series turbochargers are suitable for engines ranging from 5.5 MW up to 24 MW per turbocharger. Typical applications include prime movers for container vessels, large bulk carriers or tankers.



At the ceremony to mark the first-ever TCT turbocharger to be produced under license in Japan (from left to right): Atushi Yamada (MITSUI E&S Co., Ltd., Assistant Manager of Planning Group, Engine Design Dept., Marine Propulsion System Div.); Motoki Inazumi (MITSUI E&S Co., Ltd., General Manager of Engine Design Dept., Marine Propulsion Systems Div.); Takeshi Iizuka (MITSUI E&S Co., Ltd., Executive Officer, General Manager of Tamano Factory, Marine Propulsion Systems Div. & General Manager of Tamano General Office); Dr. Daniel Struckmeier (Managing Director of Everllence Japan Ltd., Head of Sales for License Turbocharger & Exhaust Gas Treatment APAC); Satoru Suyama (Everllence Japan Ltd., Key Account Manager of Sales for License, Four-Stroke / Turbocharger & Exhaust Gas Treatment); Kimihiko Sugiura (Everllence Japan Ltd., Executive Advisor)



The Everllence TCT40 turbocharger

Everllence (formerly MAN Energy Solutions) is a leading provider of propulsion, decarbonization and efficiency solutions for shipping, the energy economy and industry. True to our motto – 'Moving big things to zero' – we help key industries in the global economy to reduce hard-to-abate emissions. Our technologies have a measurable impact on the success of the global energy transition. Headquartered in Germany, Everllence employs some 15,000 people at over 140 sites globally. Our after-sales brand, Everllence PrimeServ, also supports our customers through its worldwide service-center network.