



YANMAR

News Release

February 17, 2021

Yanmar Holdings Co., Ltd.

Yanmar Upgrades Robot Tractor Series in Japan



YT4/5A series Robot Tractor

Yanmar Agribusiness Co., Ltd., a subsidiary of Yanmar Holdings has announced the upgrades of its autonomous tractor series, which are capable of full or partially autonomous work. The new versions will go on sale in Japan from April 1st, 2021.

Recent years have seen an increase in large scale farming in Japan, brought on by consolidation of smaller farms into larger enterprises. At the same time, a declining and aging farming population has led to workforce shortages in Japanese agriculture. The market for autonomous agricultural machinery is rising to meet these challenges. Yanmar's upgraded robot/auto tractors will utilize a multi-frequency antenna for stable connection and higher positioning accuracy towards a safer, even more efficient autonomous tractor.

“Yanmar’s auto tractor and robot tractor have found favor in the farming community for their efficiency, reliability and accuracy,” said Nagamori Masuda, Yanmar Agribusiness president. “With these new models, Yanmar offers farmers even more value with more robust positioning technology that allows even greater flexibility in the field.”

Yanmar will continue to work to meet customer’s needs, contributing to a sustainable agriculture.

■ Product Description

1.Auto tractor YT488A/498A/4104A/5113A

Launch date: April 1st, 2021

Price: JPY 10,925,000~14,275,000 (suggested retail price before tax)

2.Robot tractor YT488A/498A/4104A/5113A

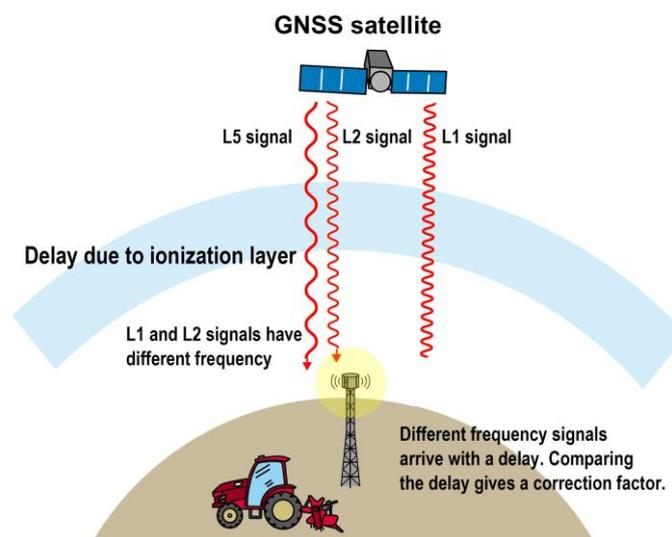
Launch date: April 1st, 2021

Price: JPY 12,645,000~15,995,000 (suggested retail price before tax)

■ Features

(1) Multi-frequency antenna for faster positioning

By receiving signals at three different frequencies from the GNSS satellite, the multi-frequency antenna can ensure safe driving even if the signal is interrupted on one of the frequencies. In addition, the positioning time is reduced by 75% allowing work to commence soon after arrival at the field.



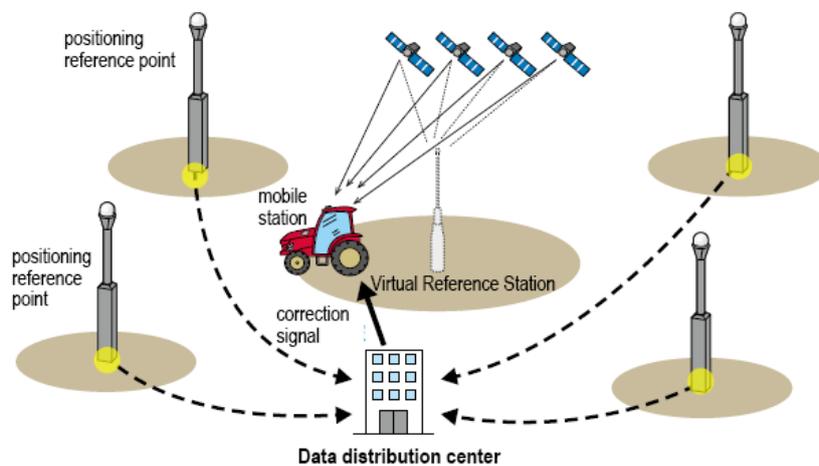
Multi-frequency system

(2) VRS[※] type, greater convenience through expanded RTK coverage

Previously, by receiving both signal from the GNSS satellite and a correction from a base station, it was possible to achieve precision of $\pm 3\text{cm}$.

The new system receives a multi-frequency signal allowing the tractor to receive local reference point positioning data to determine its position via VRS. This means it is no longer necessary to install a Yanmar base station and the system can be used anywhere mobile signal is available.

※VRS (Virtual Reference Station) Requires use of a correction signal service.



VRS system

(3) Lower speed (min: 0.5 kph) allows precision work

Increased positioning stability allows for new kinds of work. Because the positioning of the tractor is highly robust, it is possible to carry out precision work at lower speeds as low as 0.5 kph. Previously inaccessible tasks such as combined tilling and ridging can now be carried out by the robot tractor.



About Yanmar

With beginnings in Osaka, Japan in 1912, Yanmar was the first ever to succeed in making a compact diesel engine of a practical size in 1933. Moving on, with industrial diesel engines as the cornerstone of the enterprise, Yanmar has continued to expand its product range, services, and expertise to deliver total solutions as an industrial equipment manufacturer. As a provider of small and large engines, agricultural machinery and facilities, construction equipment, energy systems, marine, machine tools, and components — Yanmar's global business operations span seven domains.

On land, at sea, and in the city, Yanmar's Mission of "providing sustainable solutions focused on the challenges customers face, in food production and harnessing power, thereby enriching people's lives for all our tomorrows," stands testament to Yanmar's determination to providing us with "A Sustainable Future." For more information, visit Yanmar Co., Ltd. at its global website at <https://www.yanmar.com/global/about/>

<NOTE>

The contents of this news release reflect what was mentioned in the press announcement. Please be aware that the contents of this release may differ with new information and developments.

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