

TOMOEGAWA's Dry Air Unit Contributes To JAXA's H3 Rocket Development

On May 8, 2024, Tomoegawa Corporation (TOMOEGAWA) received a letter of appreciation from the Japan Aerospace Exploration Agency (JAXA) for its significant contributions to the development of the H3 rocket.



H3 rocket model

The H3 is Japan's next-generation heavy-lift launch vehicle, being developed as the successor to the H-IIA rocket currently in operation. This new rocket will ensure that Japan can continuously access to space. TOMOEGAWA received a letter of appreciation from JAXA for its significant contribution to the development of the H3 rocket.

TOMOEGAWA developed a 'Dry Air Unit' that can maintain a dry environment with extremely high precision while saving energy. After field tests at the Tanegashima Space Center, it was adopted for use. Condensation on satellites and other equipment can adversely affect precision instruments. Therefore, at the Tanegashima Space Center, the environment around the satellites and other equipment is kept dry before moving them between buildings. Previously, nitrogen was gradually injected into the protective cover housing the satellites to dehumidify them. However, by installing multiple units of TOMOEGAWA's Dry Air Unit inside the protective cover, the dehumidification time was significantly reduced.

Additionally, the Dry Air Unit saves energy because the regeneration (dehydration process) during reuse can be done at low temperatures. By creating a dry environment quickly and efficiently, it saves energy and contributes to shortening the maintenance and assembly process of satellites.



a letter of appreciation

About the H3 Launch Vehicle : <https://www.rocket.jaxa.jp/e/rocket/h3/index.html>

Field Test at JAXA Tanegashima Space Center



Dry Air Unit



Installing Units



Protective cover (sealed)

[Inquiry]

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