

Japan sends first cargo spacecraft to ISS

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Japan's H-2B rocket carrying an unmanned HTV transportation vehicle launches from the Tanegashima Space Center on Tanegashima island, Kagoshima prefecture, Japan's southern island of Kyushu, September 11. Japan launched its first unmanned cargo spacecraft to the International Space Station, aiming for a share of space transport after the retirement of the US space shuttle fleet next year.

Japan on Friday launched its first unmanned cargo spacecraft to the International Space Station, aiming for a share of space transport after the retirement of the US space shuttle fleet next year.

The Japan Aerospace Exploration Agency (JAXA) launched the HTV transportation vehicle atop an H-2B rocket, which is also on its first flight, as scheduled just after 2:00 am (1700 GMT Thursday), agency images showed.

The vehicle separated from the rocket, as planned, about 15 minutes later.

"We want to build on this success and continue the programme," [JAXA](#) president Keiji Tachikawa told a news conference.

The agency plans to launch one such cargo spacecraft every year until 2015.

The rocket blasted off from the Tanegashima

Space Centre on a southern Japanese island, with the HTV carrying 4.5 tonnes of supplies including food and daily necessities for the six ISS crew, as well as materials for experiments, such as seeds for growing plants in space.

Later this month, astronauts will for the first time operate a Canadian [robotic arm](#) at the ISS to grab the HTV and dock it as the vehicle approaches the station.

The 10-metre (33-foot) long cylindrical vehicle, which cost 20 billion yen (217 million dollars), will deliver the supplies, load waste materials and return to Earth, burning up as it reenters the atmosphere.

Japan has spent 68 billion yen developing the vehicle, which could be modified in future to carry humans.

Japan currently has no spacecraft that can send people into space.

But, like China and India, it has been stepping up its space operations and in June ended the world's most extensive mission to the moon in decades, using an unmanned lunar orbiter. It hopes to send an astronaut there by 2020.

Japan faced an embarrassing failure in November 2003, when it had to destroy a rocket carrying a spy satellite 10 minutes after lift-off because one of the [rocket boosters](#) failed to separate from the fuselage.

Mitsubishi Heavy Industries, which helped develop the H-2B programme, hailed Friday's successful launch.

"Until now, we have not been able to meet wishes of our clients to launch large satellites," said Hideaki Omiya, Mitsubishi Heavy president. "But H-2B allows us to meet most of the requests."

The HTV can carry up to six tonnes of supplies to

the ISS, compared with 7.5 tonnes for the Automated Transfer Vehicle developed by the European Space Agency, and 2.5 tonnes for Russia's Progress spacecraft, the Japanese agency said.

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