

**Takata and Kawasaki Rolling Stock Component Co., Ltd. jointly develop
seat belts specialized for hydrofoils*¹**

Tokyo, April 28, 2017—Takata Corporation, a leading global supplier of automotive safety systems such as seat belts, airbags and child seats, and its subsidiary Takata Service Corporation, have partnered with Kawasaki Rolling Stock Component Co., Ltd. (KSC) on the development of specialized seat belts for high-speed hydrofoil vessels. This is the first time that Takata has developed seat belts specialized for hydrofoils.

KSC was tasked with renewing the passenger seating of the “Beetle” hydrofoil ferry, operated by JR Kyushu Jet Ferry, Inc., and vessels with the updated seating began operating from March 18. Particular care was taken to consider the safety and comfort of the renewed passenger seating on board the Beetles, and all seats were installed with two-point retractable seat belts.

Takata and KSC conducted sled impact simulation testing to verify the safety of the seat belts, covering front and side impacts, as well as testing situations unique to hydrofoils, such as collisions with obstacles in the ocean, and the resulting vertical rebound and impact when landing back on the water.

The development of the belt portion of the seat belt was overseen by industrial designer Eiji Mitooka achieving a “beautiful and fun design” that utilizes Takata’s cutting-edge inkjet print technology.

Takata will continue to contribute to a diverse range of safety areas through its work on developments such as this hydrofoil seat belt.



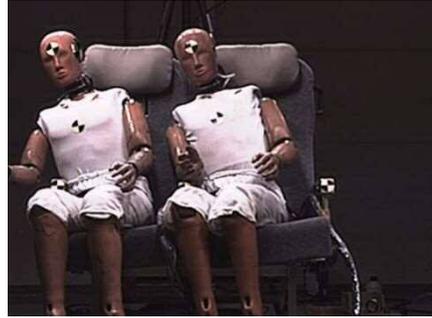
The Beetle hydrofoil, which operates between Fukuoka and Busan
(Image credit: JR Kyushu Jet Ferry, Inc.)



Sled impact simulation tests were carried out using dummies to verify passenger safety



Front impact testing



Side impact testing



Vertical impact testing, simulating an ocean-based impact and resulting rebound and landing on the water



The renewed passenger seating, equipped with specially-designed two-point retractable seat belts
(Photo credit: Kawasaki Rolling Stock Component Co., Ltd.)



Mitooka brand bright coloring achieved using Takata inkjet print technology

*1 A hydrofoil floats in the water like a normal boat when stopped or at low speed. When speed is increased the hydrofoils lift the boat's hull out of the water allowing greater speeds.



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