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Company name: Helios Techno Holding Co., Ltd.
Stock code: 6927
Stock exchange listing: Tokyo Stock Exchange (First Section)
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Development of Surface Treatment Unit for CFRP Bonding

Phoenix Electric Co., Ltd. (President and Representative Director: Hiroya Tahara), a consolidated subsidiary of Helios Techno Holding Co., Ltd., has developed a carbon fiber reinforced plastic (CFRP) surface treatment unit using semiconductor lasers that utilize recombination emission.

Summary

The conventional method for the attachment of CFRP sheets to surfaces has a number of problems. Most significant are the inconsistency of adhesion strength, sand and dust produced by surface treatment, and the high cost of the equipment used. This newly developed unit eliminates these problems by using semiconductor lasers and an innovative optical design.

CFRP is difficult to shape and the desired form must be created by using a bonding agent. The use of CFRP, which is light yet very strong, is expected to continue to grow. Bonding is a critical technology for the use of this material. Phoenix Electric believes that this new unit will make a big contribution to increasing the use of CFRP.

Phoenix Electric plans to work with manufacturers of CFRP equipment to develop machinery that incorporates this new surface treatment technology.

More information about this development is available at the Phoenix Electric's website: (<http://www.phoenix-elec.co.jp/>)

This technology will be exhibited at the Third Adhesion and Joining Expo, which will take place from December 4 to 6, 2019 at the Makuhari Messe International Exhibition Halls in Chiba, Japan.

The impact of this development on the consolidated performance of Helios Techno Holdings has not been determined at this time. An announcement will be made when a decision has been reached.