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## Recent progress of RE-based High Temperature Superconductors at Fujikura

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Fujikura Ltd. has developed REBa<sub>2</sub>Cu<sub>3</sub>O<sub>y</sub> (REBCO) high temperature superconductors (HTS) for various applications. Recently, Fujikura has manufactured uniform and long-length REBCO HTS tapes over 600m for several applications. It is important for the designs of the applications to use the REBCO HTS tapes with high uniformity of in-field critical current ( $I_c$ ) of HTS tapes. Therefore, Fujikura has focused on manufacturing the REBCO HTS tapes with high uniformity of in-field  $I_c$  in order to reduce the margin of the magnet design. And then, it is essential for the coil protection of the magnet to adapt thick copper stabilizer of the REBCO HTS tapes. Therefore, the prototype of 4mm-wide HTS tapes with laminated copper tapes have evaluated for the REBCO HTS magnets at Fujikura. In this work, recent status and activities of REBCO HTS tapes at Fujikura are presented.

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