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Successful Mass Production of Automotive Body Structural Parts Made of 1.5GPa Ultra-High Tensile Steel
— Adopted for the First Time by Nissan, Incorporated into the New "NOTE" —

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Unipres Corporation (Head office: Yokohama City, Kanagawa Pref.; President: Nobuya Uranishi) received an order placed by NISSAN MOTOR CO., LTD. for automotive body structural parts using 1.5 GPa (gigapascal) class ultra-high tensile strength steel (HTSS), and commenced the supply of parts.

In recent years, the automobile industry has been challenged with demands for reducing CO_2 emissions (improve fuel efficiency) from the viewpoint of preservation of the global environment, which has led to further advancements in auto body weight reduction. At the same time, higher car body strength is also desired to improve collision safety. As the use of HTSS with high material strength will lead to weight reduction while improving collision safety, 50% or more of auto body structural parts currently use HTSS.

The parts using 1.5GPa material which were ordered by Nissan Motor Co., Ltd., this time, is for second cross member reinforcement to be used in NOTE, which will be released this year. This will be the first time for Nissan Motor Co., Ltd. to adopt 1.5GPa material for its automotive body structural parts using cold pressing technology. Mass production was realized by utilizing advanced prediction technology using forming simulation from the design stage as well as advanced pressing technology to handle delayed fractures and quality management.

Unipres will continue to meet the demands of each automobile manufacturer to apply ultra-high tensile strength steel by utilizing its long-held know-how for pressing ultra-high tensile strength steel while continuing to accumulate basic technology.