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Gas Nitrocarburizing Steel Damper Plate Developed - Incorporated into New Jatco CVT-S (JF021E) -

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Unipres Corporation (Head Office: Yokohama, Kanagawa; President: Masanobu Yoshizawa; hereinafter called Unipres) has developed a damper plate using a gas nitrocarburizing steel sheet with high strength and low strain for a damper, which is a major component of a torque converter. Unipres started supplying the damper plate as part of a torque converter to be introduced into Jatco's new CVT for mini vehicles, the Jatco CVT-S (JF021E), in Japan.

Unipres has successfully developed a damper plate using a gas nitrocarburizing steel sheet, which enables high strength and low strain, as part of development of a second torque converter with complete original design for mini vehicles. Torque converters are Unipres' main products. It was determined that the newly developed torque converter would be introduced into Jatco CVT-S (JF021E) for mini vehicles, which was released on March 28, 2019 by Jatco Ltd. Production and supply of the converter started at Unipres' Fuji Plant (Fujinomiya) in January 2019. The Jatco CVT-S (JF021E) is incorporated into the new Nissan Dayz and new Mitsubishi eK Wagon and eK X (cross) which were launched in March 2019 in the Japanese market.

A damper plate requires high strength, high abrasion resistance, and high accuracy, and usually carbonitriding is applied to a hot-rolled steel sheet to secure quality. Aiming at further cost reduction, productivity improvement, and quality improvement, Unipres worked on development of a part using low-cost gas nitrocarburizing as securing quality equal to or higher than that of carbonitriding in collaboration with Nippon Steel Corporation.

As a result, a damper plate using gas nitrocarburizing was successfully developed by combining a gas nitrocarburizing steel sheet developed by Nippon Steel and Unipres' proprietary precision press technology. It made a contribution to light-weight design of the Jatco CVT-S (JF021E).

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