

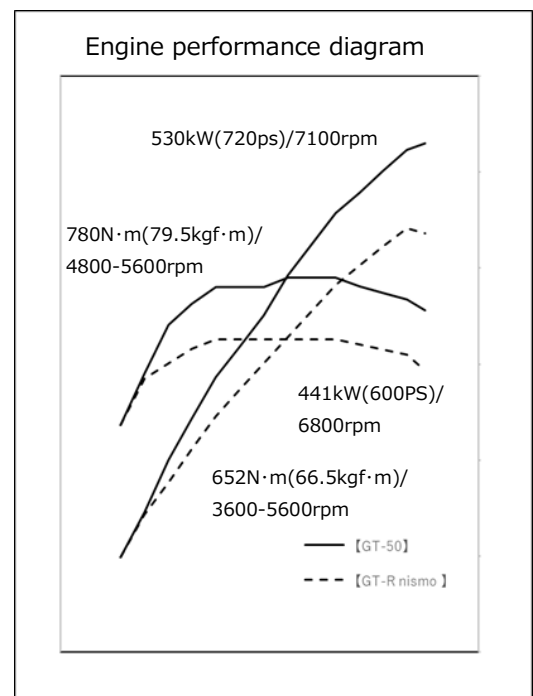
## High performance engine and transaxle developed for Nissan GT-R50 by Italdesign



**Yokohama, Japan** (April 21, 2021) - Nissan Motorsports International Co., Ltd. (Headquarters: Tsurumi Ward, Yokohama City, President/CEO: Takao Katagiri, hereinafter NISMO) has developed a high performance engine and transaxle that will be provided for the limited edition commercial model of the Nissan GT-R50 by Italdesign jointly developed by Nissan Motor Co., Ltd. and Italdesign Giugiaro S.p.A.

Shipments of the Nissan GT-R50 by Italdesign fitted with the NISMO-developed high performance engine and transaxle will start in mid 2021.

To achieve the high performance, reliability and emission standards required of the Nissan GT-R50, NISMO carried out development with Nissan Technical Center (NTC). Utilizing know-how from the race specification VR38 engine installed in the FIA GT3 specification NISSAN GT-R NISMO GT3 and other race engine development know-how, approximately 12% of the engine's parts were newly developed, including the turbocharger, pistons, connecting rods, crankshaft, fuel injectors, camshafts, and catalyzer. Furthermore, fully utilizing NISMO's many years of experience developing performance parts for road cars, a high strength material was employed for the transaxle and its surface treatment processing was modified to ensure sufficient strength to withstand torque of 780 Nm.

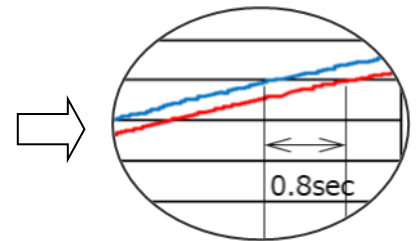
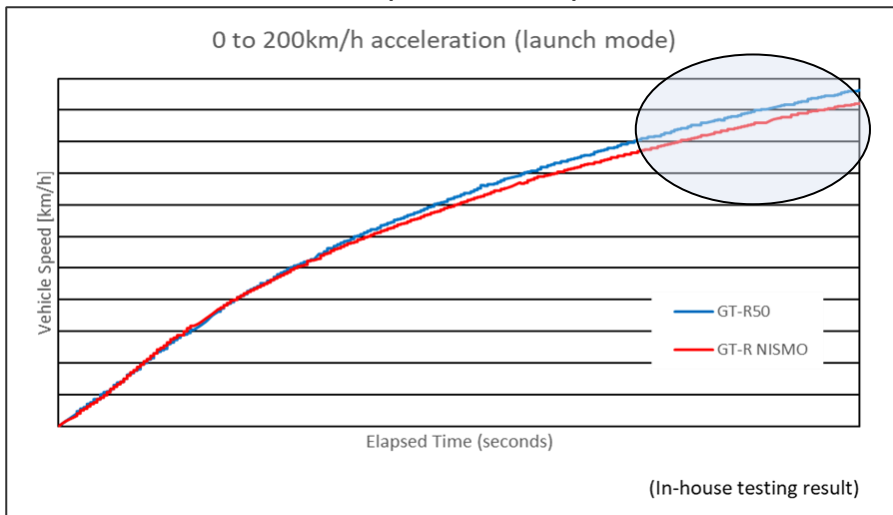


The durability and reliability of the engine and transaxle was confirmed by performing benchtop simulation durability (acceleration durability) testing that reproduced on a 4-wheel chassis dynamometer the mode cycle of the time recorded by the Nissan GT-R NISMO at Nürburgring (Germany) in 2013,

7 minutes 8 seconds 679, which was the fastest time for a mass-produced car at the time. By utilizing race and road car development technologies unique to NISMO, which is behind Nissan's motorsports activities, we have achieved both a high output of 720 PS and compliance with the strict "Euro 6" emission regulations in Europe.

In in-house testing, the NISMO-developed 720 PS powertrain achieved a reduction of 0.8 seconds (7%) for acceleration from 0 to 200 km/h compared to the current GT-R NISMO.

【0 to 200 km/h acceleration (launch mode)】



【Video】

