



PRESS RELEASE – 29-AUG-2022

NTN nominated for an Innovation Award for its eco-friendly strut bearing

NTN – world-leading automotive manufacturer exhibiting at the Automechanika trade fair, September 13-17, 2022, stand D.11 Hall 4.0 – submitted one of its new products to the Innovation Awards jury. The product in question, an eco-friendly strut bearing made of recycled materials and aluminum, was nominated in the category Parts & Technology Solutions. A good occasion to re-examine this innovation.

The environmental impact of a product is a key criterion today. NTN, which aims to offer the most responsible solutions possible, developed an innovative, eco-friendly strut bearing. This innovative strut bearing combines a cover made of recycled polyamide and an aluminum support. Using less virgin raw material and providing greater strength and reduced mass, this durable bearing makes it possible to reduce CO₂ emissions:

- by up to 4.8 kg over the course of the life cycle of a vehicle, and
- by up to 3.6 kg during the production and end of life phases, in response to the new European environmental standards.

The carefully selected polyamide guarantees excellent technical performance with good stability approximating that of virgin raw material. As for the aluminum support, it addresses the cost objectives along with all functional requirements of the applications (notably for electric vehicles, which are heavier than the corresponding IC engine-powered vehicles and require a stronger bearing). This new design also features several enhancements:

- Tougher and more rigid than plastics, the aluminum reduces deformation by 40%, thereby extending the service life of the strut bearing.
- By reducing weight by as much as 80g, the aluminum support can reduce CO₂ emissions by up to 1.2 kg over the course of 150,000 km travelled by the vehicle.

The design of this durable strut bearing is now technically mature enough for industrial-scale development in the near future and to be commercialised both as original equipment and for the aftermarket.

The Innovation Award winners will be announced at the opening of the Automechanika show on September 13. With its product nominated in the Parts & Technology Solutions category, NTN hopes to earn the highest

honours.

For further information, visit us at the NTN stand D.11, Hall 4.0 at Automechanika Frankfurt, September 13-17, 2022.

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