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INTERNATIONAL PARIS AIR SHOW 2023: NTN EUROPE EXHIBITS WITH THE LEADERS OF AEROSPACE INDUSTRY

NTN Europe will be showcasing its expertise and solutions for aircraft, helicopters, and the space industry at the 54th International Paris Air Show (SIAE), from 19 to 25 June 2023 at Paris-Le Bourget (France). Besides its products and innovations, the supplier will be highlighting three of the company's pillars: its support for customers and changes in the sector, its commitment to eco-responsibility, and the recruitment and training of talents.

Its teams will welcome visitors on its stand: Hall 4, booth B-168.

NTN Europe has been the partner of choice for the major players in the aerospace sector for over 50 years, in France and around the world. Its innovative, high-performance bearings, marketed under the SNR brand (the benchmark brand in Europe), are present on major new programmes and evolve in line with its customers' technical developments.

Reliability and technical expertise are crucial in the aerospace industry, which is why NTN Europe is committed day after day to the excellence of its products and services, and to the company's social responsibility.

Supporting customers and changes in the sector

In a very high-demand market, and in a disrupted logistics environment which requires agility and speed of execution, customer satisfaction is at the heart of NTN Europe's concerns. To achieve this, the company has introduced in recent years a more flexible organization in order to meet the highest industry standards in terms of product quality and service levels.

For this reason NTN Europe recently decided to streamline its organization by centralising its commercial operations from Europe. The Annecy headquarters has thus become the strategic decision-making centre, in line with the expectations and structures of its partners and customers who are themselves increasingly concentrating different product lines whilst expanding their worldwide footprint. This enables the company to adapt quickly to its customers' needs and to offer them top-quality products made in France.

At the same time, the Aerospace Business Unit is monitoring the dynamics of the sector and supporting it as it changes. A year ago, it launched a 2030 development plan to adapt its production capacity to the A&D market trends. The plan encompasses two major areas - services and new technologies – whilst supporting the aerospace Business Unit's three main sectors: helicopters, aircraft, and engines. The voice of the customer is also brought internally via interdepartmental



communication groups, to engage and empower teams, and to find solutions in line with customer needs.

Committing to Eco-responsibility

This centralization at European level is reflected in its supply chain, which NTN Europe wants to be as local as possible. In addition to its production site in France, the company has set up a Franco-European logistics circuit, thereby limiting its environmental footprint.

More generally, NTN Europe is helping to reduce the aerospace industry's impact on the environment by investing in cutting-edge technologies to extend the life of its bearings and maximize their performance. In 2022, for the second year running, the company was awarded Platinum status by EcoVadis, strengthening its position in the top 1% of companies in the sector in terms of social responsibility.

To achieve this, in addition to complying with all current standards, NTN Europe is developing its efficiency in industrial manufacturing. NTN Europe is also working to reduce the energy consumption of motors, with lighter bearings, ceramic rolling bodies with increased speed and reduced torque, and longer life.

Moreover, as its bearings are made from premium materials and developed using specific calculation software, they are targeting maintenance costs reduction.

Focus on hybrid bearings

NTN Europe's hybrid bearings, featuring silicon nitride (Si₃N₄) rolling elements, enable weight reduction, high rotation speed and longer component lifetime. This bearing design is now standard for electric vertical take-off and landing (eVTOL) aircraft equipped with aerospace electric engines.



In addition, the MRO (Maintenance, Repair & Overhaul) department teams, which is celebrating its 30th anniversary this year, inspect and repair the bearings. They are focused to restore their original performance while reducing aircraft or engine downtime to a minimum.

After a first bearing inspection, the defective components are replaced by parts manufactured from OEM production lines or are reworked to restore original quality standards. A bearing repaired by the NTN teams returns to service with the same potential lifetime as a new bearing. NTN Europe thus contributes to keeping bearings in service, while guaranteeing the safety of users.

Recruiting and training industry talents

NTN Europe is committed to the well-being and excellence of the men and women who take care of its bearings. To maintain the level of motivation and performance of everyone, the company attaches great importance to the development of skills, career paths, informing and listening to its employees, as well as the continuous improvement of working conditions.

In 2019, NTN Europe created LEARN, its in-house training school with a certification pathway, which enables anyone over the age of 18, whatever their level of education or sector of activity, to join the aerospace industry. This training course also serves to upgrade the skills of its operators to the very demanding standards of aeronautical production.

To attract new talents, NTN Europe is taking part in "L'aéro recrute" (*Aeronautics is recruiting*), the job and career promotion campaign launched last year in France by GIFAS (Groupement des Industries Françaises Aéronautiques et Spatiales). The show will be an opportunity for our teams to present the sector, the company, its jobs, and vacancies to interested visitors.

About NTN Europe

NTN Corporation, a Japanese group established in 1918, is a world leader in bearings, constant-velocity joints, linear modules, distribution rollers, suspension parts, and associated training and services.

The Group is present on all continents, with more than 23,000 employees, 73 production sites and 118 sales offices. In 2022, it achieved a turnover of 4.9 billion euros.

In Europe, its subsidiary, NTN Europe, operates in all industrial, automotive, and aerospace markets.

NTN has an R&D centre and 15 production sites in Europe, where around 6,500 employees work.

At the end of March 2022, NTN Europe achieved an annual turnover of 1.1 billion euros.

NTN Europe applies the Group's philosophy "Make the world Nameraka", which reflects the Group's know-how, leadership, and vision for the future.

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