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NTN LAUNCHES INTERACTIVE VIRTUAL CAMPUS TO SHOWCASE BEARING SOLUTIONS



NTN, a producer of premium quality ball and roller bearings, is pleased to announce the launch of its virtual “NTN Campus” in response to the rapidly evolving needs of its customers. The NTN Campus, the first of its kind for the bearing transmission industry, enables bearing users to access a blend of training tools including webinars, virtual instructor-led training, demonstrations, remote diagnostic simulations and other interactive content. It will also be harnessed by NTN for the onboarding of new customers to offer industry specific training on a wide variety of bearing applications.

“We felt it was the perfect time to explore virtual channels to deliver quality education to our industry partners,” says Paul Meo. “NTN’s innovative virtual campus saves our customers travel time and boosts efficiencies. The training modules and webinars are designed to ensure clients can get up to speed with our products quickly and easily from the convenience of their office or manufacturing plant. As technology is radically transforming the marketplace, we are excited to be at the forefront of change across the industry. The introduction of the NTN Campus demonstrates how digital innovation can truly deliver value to bearing customers.”



NTN Campus Virtual Lobby

CUSTOMIZED FOR EVERY INDUSTRY PARTNER

Online education courses taught by NTN experts make decades of engineering expertise available on demand through the NTN Campus. NTN's team of engineers have designed the NTN Campus curriculum to enable industry partners to realize maximum machine uptime using the newest NTN product innovations. This approach ensures each virtual campus is unique, providing industry partners with their own customized educational platform built specifically to meet their training needs. Live webinars and demonstrations are pre-selected in advance to showcase how NTN's "Ultimate Bearing Experience" innovations and tools can add value to their operation.

Each "NTN Campus" virtual event incorporates live technical presentations, multifaceted chat and spaces to share multimedia documents that attendees can browse at their leisure. Conferences are hosted jointly with an NTN distributor partner with the goal of informing attendees about new NTN solutions and

creating networking opportunities with end-users. A range of gamification features are used to boost participation on the platform. Attendees are given points for visiting a booth, downloading a video, attending a webinar or completing one of many other actions, which are awarded with NTN branded promotional prizes.



NTN Engineering Solutions technical briefing

The animated lobby, exhibit hall and auditorium also offer multiple areas for joint NTN and distributor brand promotion. NTN Campus events have been booked with a wide range of aftermarket partners across Canada to

facilitate knowledge sharing with the support of NTN's engineering leaders. Customer response has been favourable. Bearing end-users and distributors alike, love the simplicity of the virtual NTN Campus event platform.



Attractive Lobby to Welcome Attendees

An animated virtual lobby is used to greet NTN Campus attendees. A welcome video provides a short tutorial guiding attendees through the entire venue.

Educational Sessions in the Virtual Auditorium

NTN educational sessions are conducted in the virtual auditorium. Leveraging Microsoft TEAMS meetings for the educational sessions has made it extremely easy for both the presenters and the attendees. They can hop right in and attend the sessions of their choice.

Maximizing engagement in the exhibit hall

The NTN Campus exhibit hall can feature up to 10 solutions exhibits covering a wide range of training topics from NTN's TRIAGE Engineering Solutions and KIZEI Spherical Roller Bearings to NTN SNR's linear motion portfolio. These exhibitor booths also serve as a space to align contacts and prospects. Attendees can learn more about the NTN bearing technology they require for specific industry applications. The exhibit hall is designed to keep it close to reality, making attendees feel as if they are in a real trade show because of the way it is laid out. Additionally, the solutions exhibits showcase documents and videos that can be shared with the attendees, giving them the option to add these to their 'swag bags' and download later. There is also a chat button in each booth, providing attendees with the option of live audio, video and text chat. This feature enables attendees and exhibitors to seamlessly network amongst themselves at the NTN Campus.

[Auditorium](#)
[Exhibit Hall](#)
[Video Vault](#)
[Resources](#)
[Swag Bag](#)
[Lounge](#)
[Leaderboard](#)
[Scavenger Hunt](#)
[Gallery](#)
[Survey](#)
[Information D](#)



A leaderboard is also set up to encourage participants. This serves as an incentive for them to cover maximum ground in the virtual space. Participants can earn points every time they visit an NTN solutions exhibit booth, or attend an educational session. They can even earn points if they find a hidden item in the booths. The top ten participants at each NTN Campus event qualify for fun prizes consisting of NTN branded promotional merchandise. These incentives motivate participants to

explore more of the NTN Campus virtual event.

To date NTN has hosted a wide range of virtual campus sessions helping its client base enhance the efficiency of plant machinery and equipment. Each session of the NTN Campus has been able to create an experience that attendees and industry partners claim to have never seen before, cementing NTN as a progressive industry leader. Some of the prominent features of the NTN Campus include:

- The ability to share the expertise, passion, and knowledge of our staff and partners in a user-friendly and accessible platform.
- The fact that audiences and speakers were able to show up remotely. This was one of the greatest benefits of hosting a virtual conference.
- Along with travel budgets and restrictions, catering, and limited capacities of venues, NTN was able to trim off many event-related costs opening up a lot more opportunities in a cost-effective way.
- The opportunity to boost real-time communication, encourage face-to-face meetings and create an interactive environment for high-value conversations.
- The ability to share the organization's world-renowned bearing expertise globally on-demand.
- The volume of data that was captured by the virtual conference provider was exceptional. Not only did this help NTN identify new project opportunities, but also supported NTN's industry partners who were able to generate leads using the valuable data that was provided.



The NTN Virtual Campus has shifted the scope of what's possible when envisioning, planning, and executing bearing training programs. NTN Canada also continues to offer in-person workshops, courses and events open to distributor partners and bearing end users.

Anyone who wants to take a virtual tour through the NTN Campus can request a demo by calling (888) 412-4122 (Toll Free) or by emailing communications@ntn.ca

We look forward to having you join us at our new NTN Virtual Campus!

NTN's Technical Training Roadshow Receives Great Reviews from Bearing Endusers and Distributor Team Members



In June 2022, NTN Canada launched its newly transformed Ultimate Bearing Experience Technical Training (UBE) program for Maintenance Staff, Technicians, and Engineers - moving away from traditional classroom-based learning to a structure that focusses on mastering the competencies required at the plant level. Feedback from both bearing end-users and distributor team members has been very positive and encouraging. The program is geared to ensuring proper maintenance of machinery by facilitating knowledge transfer of best practices for the installation and maintenance of anti-friction bearings.

NTN UBE Technical Training testimonials are earned from the hard work of an experienced, dedicated team. Here are a few of the many thanks and comments we see and hear almost weekly during our training sessions.

- Improved real-time communication
- Greater training engagement through face-to-face meetings in an interactive environment
- The ability to share NTN's world-renowned bearing expertise on site, without incurring travel expenses
- Reduced equipment breakdowns and less downtime
- Increased motivation, work ethic and morale

TRAINING TESTIMONIAL

"I'd like to thank NTN for the wonderful training opportunity provided through the UBE Technical Roadshow. My team was able to benefit from this successful training program across the entire production line. On completion of the educational sessions, I was getting texts from mechanics telling me that their time was both enjoyable and productive, and they really appreciated the training with Jean-François Doucet, NTN's Technical Service Specialist. At my leadership meeting, our staff congratulated me for organizing this bearing education event, something they had never seen before in the industry. The program execution was successful thanks to the hard work and professionalism of the NTN technical service specialists and the participation of the Motion industrial distributor team"



The implementation of NTN's roadshow training program has proved to be successful, receiving favourable reviews on how easy the event is to organize and how effective it is for their employees. The tour carries the latest technology for ball and roller bearings, wheel hub assemblies, seals, and linear motion products through a mobile technical training and demonstration unit. NTN is bringing this roadshow to bearing users across Canada, with all seminars conducted live on-site at plant and manufacturing facilities. Based on the feedback

received so far, plant and production facility employees new to bearings have been very enthusiastic to receive this training, whereas the more experienced employees, already familiar with bearing maintenance principles, have said that they are learning new solid concepts around preventative maintenance. The training workshops are also an opportunity to bond with colleagues and industry partners, as they experience the speed and intensity of an NTN NASCAR pit stop challenge!



TRAINING TESTIMONIAL

"The NTN UBE Technical Roadshow Training is exceptional and our people are very impressed with the quality of the education and the in-person instruction. We have also had great employee engagement and fun with the pit stop challenge competition. I appreciate what the NTN team has done for us at Irving Tissue. The NTN technical service specialists were extremely helpful and this program will help our employees. A truly excellent performance on this training event, delivered by NTN and Motion Industries, thank you on behalf of Irving Tissue"



**Jacques Richard,
Maintenance Coordinator,
Irving Tissue**

The NTN UBE Technical Roadshow Training Program offers courses designed for plant operations and production maintenance staff in a wide range of industries including Food Processing, Plastics, Pulp and Paper, Oil and Gas, Chemical Processing and Mining. For each company, specialists from NTN's Engineering Centre work with plant facility training managers to select courses so that the company can fast-track the

success of their new and experienced employees based on their bearing knowledge needs. The training features a wide range of products, from NTN KIZEI & ULTAGE Spherical Roller Bearings to NTN Sentinel Series and NTN Heavy Duty Mounted Units. Also on display is NTN's new TRIAGE Engineering Solutions portfolio offering a systematic approach to bearing troubleshooting with NTN's INSYNC remote collaboration technology.



NTN is pleased to share that the NTN UBE Technical Roadshow Program has been successful with 19 events completed to date, over 400 registrations and 1,016 bearing skills educational sessions held from June 2022 – September 2022. Conclusion: The NTN UBE technical bearing skills-based training program has been well received by the trainees and is now embedded and accepted as part of the NTN training program. Another 17 roadshow training events are planned for the remainder of 2022.

NTN believes that by transferring and sharing know-how, skills and experience through trainings, seminars and conferences, it benefits our business partners and NTN. A team of well-trained maintenance staff who understand the proper handling of bearings and mechanical components can help reduce costly downtime by helping companies prevent unforeseen failures of machines.

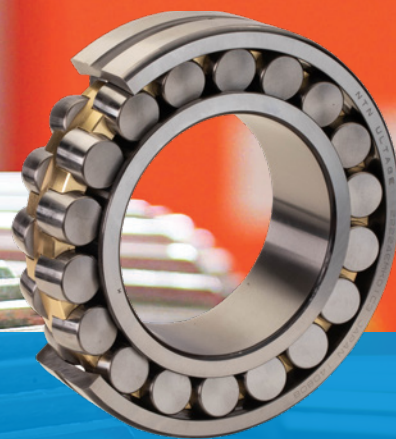
The Engineering team behind the NTN UBE Technical Training Roadshow is consistently updating the program as it rolls out to more participants, each with their own unique requirements and preferences. NTN is thankful to its Engineering team, led by Marcus Wickert, Director of Engineering.

"NTN strives to go above and beyond to deliver premium engineering support and service," says Paul Meo, President & CEO of NTN Canada. "Without the insight and knowledge of NTN's Engineering department, this program would not have been possible."

To learn about the new NTN Ultimate Bearing Experience Technical Roadshow, contact your NTN representative or NTN bearing distributor.

The ULTAGE Advantage

We're right at home in the most punishing applications.



ULTAGE®

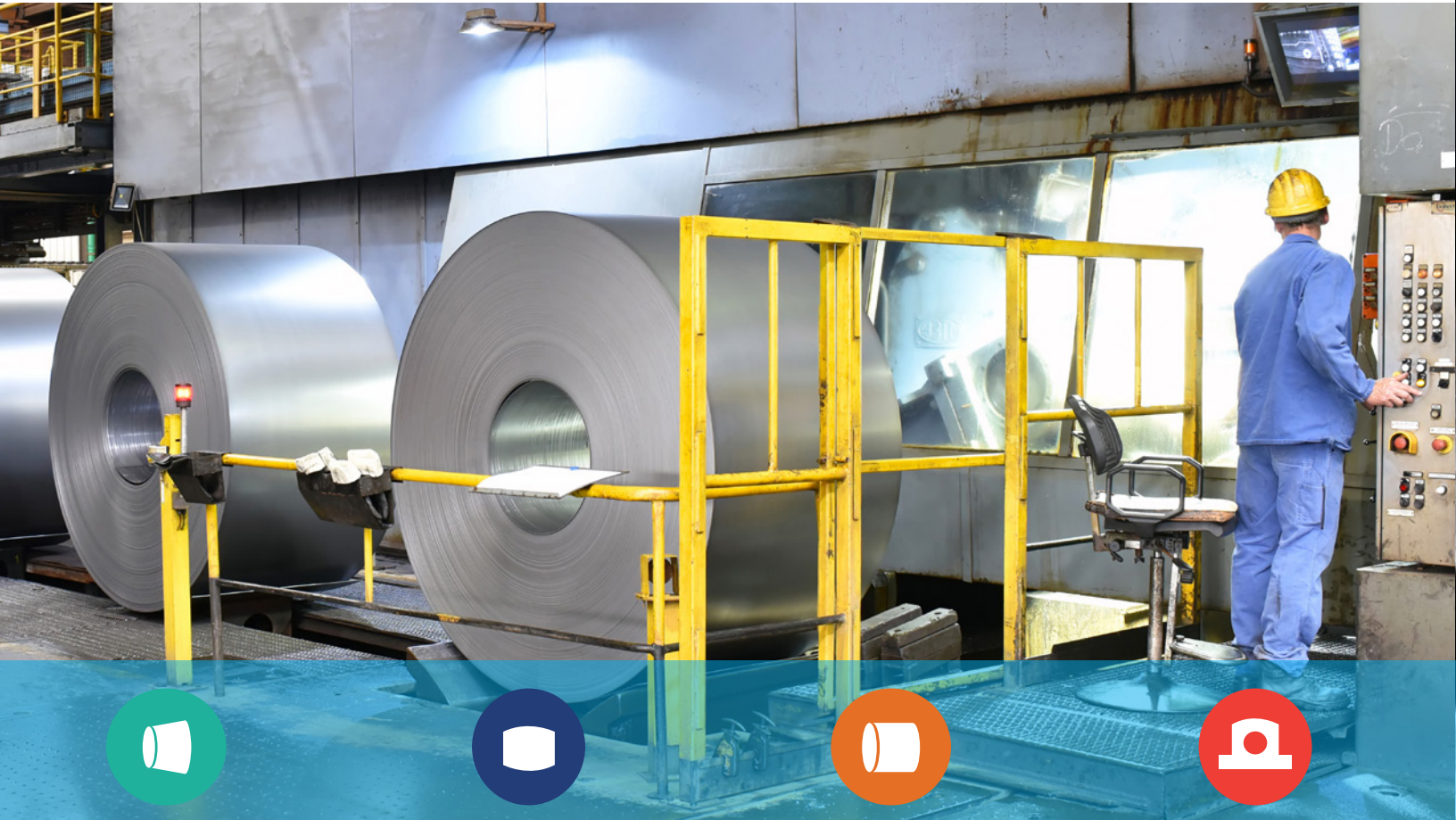
Combining premium-grade materials, optimized design and precision manufacturing, ULTAGE is the new generation of high-performance bearings from NTN that delivers unmatched service life, the highest limiting speeds and the best load capacities on the market to maximize the productivity of your equipment.

Encompassing a wide variety of key bearing types such as spherical roller, cylindrical roller, tapered roller, heavy-duty mounted roller, angular contact and radial ball bearings, the ULTAGE line of superior, high-performance bearings from NTN delivers:

- **Extended service life** for better return on our end-users' investment.
- **Greater performance**, longer production and less downtime.
- **Dependable product availability**, thanks to a wide, robust distribution network.
- **Extras that go beyond** a standard offering, including on-site and web-based technical training, installation support, digital resources and more.

We design our bearings to outlast the competition

Our ULTAGE series takes NTN performance to great heights — setting a new standard as the hardest-working, highest-capacity bearings on the market. That's because we engineer our bearings to last with design features that minimize contamination infiltration and extend lubricant life. Even under harsh conditions, NTN bearings are built to operate continuously.



Tapered Roller Bearings (TRB)

Providing higher load capacity, higher speed and longer service life for:

- Mill Drive Gearboxes
- Mill Stand Work Rolls
- Transfer Rolls

ULTAGE® Spherical Roller Bearings (SRB)

Delivering superior performance for increased throughput in:

- Coating Line Tension Rolls
- Mill Drive Gearboxes
- Line Support Rolls

Cylindrical Roller Bearings (CRB)

Offering unmatched capacity and high-speed rotational performance for applications including:

- Mill Stand Back Up Rolls
- Mill Drive Gearboxes
- Mill Drive Motors

ULTAGE® SAFD Pillow Blocks

Heavy duty mounted units deliver unmatched heat resistance in tough applications like:

- Continuous-Process Line Rolls
- Rollout Tables
- Line Shaft Supports

Bringing your team up to speed.

At NTN, we are your supplier for success. And we know that achieving more uptime and improving plant efficiency starts with educating your people. That's why NTN offers custom training programs covering bearing selection, installation and maintenance. With both online and on-site training options available, it's easier than ever to give your people the know-how they need to be their best.



In stock, on time and just a call away.

When a critical component in your operation is compromised, you need the right replacement fast, with no hassles. As one of the largest bearing manufacturers in North America, we have a wide network of distributors who provide 24/7 product support and availability. Unplanned downtime can be kept to a minimum and you can be back up and running quickly.

NEW NUMBER ANNOUNCEMENT



NTN, the parent company of BCA Bearings, announces the addition of new product SKUs to the BCA aftermarket product line

NTN has announced the addition of 12 new product SKUs to the BCA aftermarket product line. The new release includes wheel hub assemblies for import and domestic applications, and represents premium coverage for over 3.4 million vehicles in operation, including four first-to-market offerings.

The SKUs included in the May 2022 release support NTN's commitment to adding late model coverage and staying ahead of aftermarket demand. These new SKUs enhance BCA's coverage for popular Asian brands, including Nissan/Infiniti, Kia and Honda. On the domestic front, coverage for 1.35 million Chevy Equinox and GMC Terrain crossover SUVs arrives just as these vehicles begin to enter the aftermarket sweet-spot for wheel bearing replacement.

Earlier this year, NTN announced the addition

of 16 new product SKUs to the BCA aftermarket product line. BCA's March 2022 release included wheel hub assemblies and repair kits for a number of import and domestic applications, representing coverage for over 6.9 million vehicles in operation. These new SKUs supplement BCA's coverage for Hyundai, Kia, Nissan, Infiniti, Toyota, Lexus, and Mazda brands. Also of note, is added coverage for Mercedes-Benz GLS-Class SUVs, which recently began production with the 2020 model year. Finally, this release provided additional coverage for multiple Ford Motor Company brands, including the first generation Ford Fusion platform, the third generation mid-cycle refresh of the Expedition/Navigator, and

the first generation of Ford's high-performance F-150 SVT Raptor.

BCA Bearings by NTN is a trusted supplier of OE-quality parts to the automotive aftermarket, providing a constantly expanding full-line of premium wheel hubs, bearing and seals for domestic and import applications. Complete product and catalog information for the BCA Bearings product line can be found at **BCABearings.com** and **ShowMeTheParts.com**. View the New Number List on the BCA Website Here:

<https://bcabearings.com/catalog/new-skus/>

About BCA Bearings

BCA has over a century of experience supplying wheel end solutions in North America. Today BCA is owned by NTN, a global manufacturer of wheel hub assemblies and bearings. As the #1 supplier of OE-quality hub assemblies, we fulfill more than 30% of the demand for North American OE vehicle production from our Elgin, Illinois plant. In the Aftermarket, this gives BCA the advantage of providing highly-engineered replacement parts that meet or exceed the OE engineering specifications. We leverage this expertise to offer application full-line coverage for both domestic and foreign nameplates.

For more information, visit [BCABearings.com](https://bcabearings.com)

Summer 2022 Interns

NTN



Our Summer Internship Program aims to foster the minds of the future who will ultimately develop and bring the most innovative ideas to life at NTN.

This summer, our interns were placed across a wide range of teams and in different roles, from marketing communications to production, logistics management, manufacturing, and more. The interns were able to receive hands-on experience working with cross-functional teams to apply their knowledge and skills to real-world applications. To aid in their professional development, each intern was also given the opportunity to shadow a professional in the field they are most interested in.

Thank You to Our 2022 Summer Interns!

We would like to extend our deepest thanks to the outstanding interns that joined NTN's team this summer. We'd like to highlight and thank each individual intern for their accomplishments at NTN!



Stefano Valdes
ENGINEERING

Stefano worked as an Engineering Summer Student at NTN Bearing Corporation of Canada and assisted in digitalizing project documentation as well as maintaining the lab workroom equipment.



Emi Miyazaki
MARKETING

Emi worked as a Marketing Coordinator Co-Op Student at NTN Bearing Corporation of Canada on varying tasks within the department such as the proofreading of marketing content as well as the development of the NTN loyalty app.



Shenaaz Sran
HUMAN RESOURCES

Shenaaz worked as a Human Resource Student at NTN Bearing Manufacturing Canada assisting with recruitment activities for CMF production employees and with the digitalization of HR and EHS records.



Aidan Bailey
MANUFACTURING PRODUCTION

Aidan Bailey worked as a Manufacturing Production Student at NTN Bearing Manufacturing Canada, assisting with maintaining 5S standards within the production facility which was critical for employee safety.



Bryan Imafidon

QUALITY ASSURANCE

Bryan worked as a Data Analyst Intern at NTN Manufacturing Canada. His duties involved developing and implementing data management systems. He also developed various document management systems to streamline the daily activities at the Quality Assurance department.



Theiviyan Devadaas

ENGINEERING

Theiviyan worked as an Engineering Intern at NTN Bearing Manufacturing Canada. He assisted on the cost savings project for 3D printing of spare parts that involved converting 2D drawings into 3D drawings and creating actual parts using CMF's new FDM 3D printer. Theiviyan also assisted on material handling improvements on a production line including new design components.



Caden Dequilla

MANUFACTURING PRODUCTION

Caden worked as a Production Intern at NTN Bearing Manufacturing Canada. Caden operated and helped maintain machinery and production line equipment. Caden also assisted with maintaining 5S standards within the production facility which was critical for employee safety.



Klajvert Boshnjaku

MANUFACTURING PRODUCTION

Klajvert worked as a Production Intern at NTN Bearing Manufacturing Canada helping to produce and assemble bearing products. He operated and maintained machinery, and helped ensure production standards were met. Klajvert also helped maintain 5S standards within the production facility which was critical for employee safety.



Emily Trahan

MANUFACTURING PRODUCTION

Emily worked as a Production Intern at NTN Bearing Manufacturing Canada and helped monitor the assembly of bearing products. Emily also assisted with maintaining 5S standards within the production facility which was critical for employee safety.



Hasan Ramadan

WAREHOUSE LOGISTICS

Hasan Ramadan worked as a Warehouse Logistics Intern at NTN Bearing Corporation of Canada. Hasan managed the repackaging of Hitachi products and also assisted the assembly team with work order completion and the repackaging of bulk items.



NTN Community Garden - Growing Healthy Food for Those Most in Need

NTN Canada's Community Garden has helped grow fresh vegetables which will go toward feeding the less fortunate in the Greater Toronto Community. NTN volunteers were pleased to contribute their time to the maintenance of the community garden in the hopes that they can share plant-based produce with people who are most in need of a healthy meal.

The garden is located at NTN's headquarters in Mississauga, Ontario and includes a wide range of vegetables from tomatoes to lettuce, peppers, eggplants, squash and green beans. The harvested vegetables will be donated to homeless shelters and used to prepare soups, pastas, salads and other foods that are healthy and fulfilling at the same time.

NTN will make these delicious and nutritious meal options possible for those in need at Haven Toronto and other local shelters that serve the homeless population, many of whom suffer from diabetes, heart disease, and other conditions. The garden will also allow employees to spend time outdoors, learn to grow and harvest herbs and vegetables and to socialize in a pleasant environment.

A big thank you goes out to our employees for volunteering their time to build and maintain the garden's grounds during the very difficult hot days of our last heat wave. Our garden would not be possible without the support of our hard-working NTN staff. Together we can join the fight against hunger and make a difference to those facing food insecurity.



MAKING THE WORLD RUN SMOOTHLY

The NTN Group endorses the United Nations Global Compact, thus declaring its commitment to respect and endorse the 10 universally recognized principles of human rights, labour standards, the environment and anti-corruption. NTN strives to bring these principles to life through concrete initiatives and to promote them among its partners. Our NTN Spirit Tree philosophy shapes our commitment to a sustainable future and infuses everything we do. Through our partnerships with local organizations, we continue to build vibrant communities where we live and work, and our “can do” attitude inspires top performance from everyone by encouraging collaboration and commitment and by embracing challenge.

WE SUPPORT



NTN Spirit



CHALLENGE



COLLABORATION



COMMITMENT



Stay Connected