Working with its distributors, NCA develops demand for Nitta products by doing the right thing for the end user. For belting customers, the first step is to identify performance problems with current belts. NCA’s experienced sales and technical teams then work with management and installers to find the best belt for the application, plus help to correct maintenance and installation procedure problems such as tracking, tension, and proper splicing techniques. Nitta’s goal: to show a measurable overall cost savings on total belting-related performance at each end user location, focusing on reduced downtime, higher speeds, and fewer quality issues with finished products.

End User Focus – “The NITTA Advantage”

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- **85,000 sq. ft. state-of-the-art facility located in Suwanee, Georgia**
- **Only worldwide belting company to manufacture nylon core and aramid cord belting in the U.S.**
- **Fully registered to ISO 9001:2008 standard, including design of belting**
- **Highly technical fabrication methods**
- **Full product line – total belting solution plus hose, tubing/fittings, and wipers**
- **Long product life, high reliability**
- **Dedicated R&D**
- **Testing programs**
- **Sales network throughout the Americas**
- **Customer Service and Technical teams**
“Nitta’s goal is to show a measurable overall cost savings on total belting-related performance at each end user location, focusing on reduced downtime, higher speeds, and fewer quality issues with finished products.”

Quality Control

Nitta Corporation of America’s management team and employees have a deep-rooted commitment to providing the highest quality products in the industry. This focus on quality is one of the strengths separating Nitta from its competition. Through testing, training, inspection, SPC techniques, and in-process quality checks, NCA is able to deliver reliable, high-quality products to its customers.

To help maintain this high level of quality, NCA has a sophisticated on-site laboratory for testing finished goods and raw materials.

In December of 2002, Nitta Corporation of America’s Quality Management System successfully met the registration requirements for ISO-9001:2000. In August of 2009, we were registered to the ISO-9001:2008 standard. NCA registered with no exclusions, and the scope of our registration includes the design of belting. In 2011, our registration expanded to include hose and tubing.

We feel confident that this high standard will give our customers the added assurance that we have a quality system in place that will help us in continuing to meet their needs and expectations.

NCA Quality Policy

Nitta Corporation of America will strive to provide products that meet our customers’ needs and expectations.

NCA will vigorously pursue continuous improvement in the areas of:

- Quality Products
- Customer Satisfaction
- Innovative Technology

In-process quality inspections ensure final product is top-quality.

Various rubber mixtures are compounded for PolyBelt covers.

Here, the layers of PolyBelt are permanently bonded together.
In today's highly competitive economy, speed, volume, and precision are all critical to the bottom line. Although belts are a simple tool, they are essential for even the most advanced equipment. They provide the force that keeps industry moving by transmitting power, processing materials, and conveying finished products. Nitta belting is designed around the needs of the end user. Nitta's R&D engineers have worked extensively with real-world applications to ensure that Nitta belts are of the highest possible quality and optimized for the tasks they will perform. This ongoing process continues to bring new products and added value to Nitta customers.

Nitta offers a full-line belting solution for industrial applications. This includes PolyBelt nylon core skive-splice, PolySprint finger-splice, Carryflex aramid cord, SEB seamless belts, and conveyor belting, as well as joining tools.

**PolyBelt™**
- Nylon core, skive splice
- Manufactured in Suwanee, Ga.
- Power transmission, machine tapes
- Many applications throughout many industries

**PolySprint™**
- Polyester core or elastic type
- Finger splice
- Power transmission, machine tapes
- Printing, paper converting, mail processing

**Carryflex™**
- Aramid cord, finger splice
- Manufactured in Suwanee, Ga.
- Tangential drive, live roller, overhead conveyor
- Textile, material handling systems, printing

**SEB™**
- Many carcass/cover options, such as PES/NBR
- Seamless (truly endless)
- Precision drive, feeder belts
- ATM, mail processing, box folding

**Conveyor**
- PVC, TPU, and many other cover options
- Many splicing and finishing options available
- In-plant conveyance of unit loads, processing
- Conveyor applications across many industries
Overview
PolyBelt features a rubber-covered nylon core and is used for power transmission belting, carrier belts, and machine tapes. PolyBelt is available in nine cover thicknesses and fifteen nylon strengths to meet horsepower ratings, abrasion- and wear-resistance, and pulley diameters required in a variety of applications.

Nitta is the only vertically integrated domestic manufacturer of nylon core belting, proudly making all PolyBelt products in the USA. By manufacturing these products in its Suwanee, Georgia, facility, NCA can offer quicker delivery, price stability, and greater flexibility in the design and production of specialty or custom belts.

With super-strong nylon core, extended-life skived joining, and high operating duty cycles, PolyBelt outperforms all competitive products.

Features
High Strength, Long Life – Superior resistance to flexing fatigue, rugged design for heavy-duty applications. Strong, durable pre-set nylon core accommodates shock loads. Highly abrasion-resistant covers – with up to 6 times the abrasion resistance of competitors’ belts – provide long, dependable service.


Quick Splice Option – Many styles can be joined in just three minutes, plus four for cooling, with Nitta’s quick skive-splice option.

Electrically Conductive – Materials with anti-static properties provide permanent conductivity, eliminating electrostatic build-up.

Environmental Resistance – Oil- and chemical-resistant rubber covers. Selected materials are not susceptible to oil contamination, demonstrating high energy efficiency and friction resistance.

Applications
- Paper Manufacturing and Converting, Tissue, Tube Winders
- Textile Machines
- Mail Processing
- Printing
- Corrugated and Folder-Gluer
- Flour Milling
- Woodworking
- Other General Power Transmission
PolySprint™

Overview
PolySprint is Nitta’s line of finger-spliceable polyester core and elastic belting, featuring high-strength polyester tension members, quick-melt thermoplastic members, and easy installation.

Requiring no adhesives to join, PolySprint greatly reduces costly downtime as a quick and easy-to-replace alternative to skived products. It outperforms all competitive finger-splice materials and is available in many styles, primarily for use in printing and graphic arts, paper converting, and mail processing.

PolySprint is made with a variety of tension members and covers to suit a wide range of applications. Nitta offers non-elastic types with a polyester core and elastic types with/without reinforcement, plus surface options in TPU, rubber, and fabric with various COFs.

Nitta also offers a complete selection of durable, high-quality tools for joining PolySprint. Single-action and indexed Nitta cutters eliminate mismatched and non-aligned joints, presetters ensure alignment during splicing, heat presses with programmable digital temperature readouts yield high accuracy, and cooling clamps hold presetters in place as belts cool for use.

Features
Ease of Joining – Quick and easy belt replacement means minimal downtime and no need to disassemble machine. Nitta cutters punch consistent fingers for precise alignment. QuikFlex finger-splice system requires no adhesives and minimal training. Nitta presetters ensure straight, strong splices.

Dimensional Stability – Polyester fabric tension member provides high dimensional stability and flexibility. Much lower permanent elongation than competitive products.

Abrasion Resistance – High-temperature, friction-resistant covers and fabrics, many designed exclusively for printing and paper. Long service life.

Environmental Resistance – Selected materials are temperature- and humidity-tolerant. Polyester core does not expand or contract as humidity changes.

Applications
• Printing  • Stackers  • Bookbinding
  • Transport  • Folders
  • Sheeters  • Paper Converting
  • Folder-Gluers  • Corrugated  • Multiwall Bag
  • Mail Processing
• Other Printing and Paper Converting Functions

PolySprint running on folder-gluer machine.

Folder application using PolySprint in printing facility.

Nitta’s line of PolySprint tools makes it quick and easy to replace broken belts. Finger punchers, presetters, heating and cooling presses, and complete kits are available.
Carryflex™

Overview
Carryflex (CF) is high-strength, finger-spliceable belting. Aramid filament is twisted into a cord as a tension member, and then it is covered with high-friction rubber or polyurethane. Carryflex’s integrity is unmatched by competitive products. Manufactured in Suwanee, Georgia. Joining tools are also available.

Features
Ease of Joining – Quick-melt finger splice (no adhesive).
Dimensional Stability – Low-stretch aramid cord yields constant tension for more consistent spindle speeds and longer belt life.
High Strength, Durability – Flexible, rugged design for heavy-duty use. No edge fraying with fully encapsulated aramid cord. Highly abrasion-resistant rubber covers for maintaining spindle speeds. TPU covers with soft, molded-in v-guide (CFTG-18SG belts) designed for continuous use on small, high-speed pulleys.
Environmental Resistance – High energy efficiency. Resistant to oil, temperature, friction, and humidity.

Applications
- Tangential Drive for Textile
- Live Roller Conveyor
- Overhead Conveyor for Printing (CFTG-18SG)

SEB™

Overview
SEB (Super Endless) is a seamless belt manufactured in tubular form to be truly endless. SEB offers the best performing covers in the industry for wear resistance and pickoff rates. It is used where the precision of the drive is critical. NBR covers on polyester carcasses are among the many available options, and stringent quality procedures ensure all SEB meets the tightest tolerances for dimensional consistency and stability. Nitta welcomes R&D for new applications and can custom-design for large potential applications.

Features
High Performance and Durability – Seamless construction for high-speed transmission, maximum rotation accuracy, and dimensional consistency. Excellent flexibility and abrasion resistance. Thin, light, maintenance-free.
Many Options – More than 100 types. Rigid, semi-elastic or elastic carcasses, from polyester (cord or woven/knitted fabric) to glass. Covers include NBR, neoprene, hypalon, natural rubber, and other compounds.
Environmental Resistance – Broad temperature range ensures top performance in hot and cold environments. Excellent ozone resistance.

Applications
- Box Folding
- ATM
- Mail Processing
- Office Equipment
- Other Applications Requiring Feeder Belts, Sandwich Conveyors, or Small Pulley Power Transmission Belts
Overview
NCA stocks, fabricates, and sells multiple conveyor product lines, along with modification options such as guides, cleats, and perforations. With hundreds of configurations and a wide variety of surface types, Nitta can match the requirements of almost any customer, from the largest distribution centers to the smallest in-plant conveyor systems.

Nitta’s global manufacturing base allows NCA to carry a complete range of material. Thermoplastic European-style PVC and polyurethane belting is manufactured at Nitta’s facility in Alkmaar, Holland. High-duty belts (for difficult applications) are designed and manufactured in Japan. And nylon conveyor, part of the PolyBelt line, is manufactured in Suwanee, Georgia.

Features
All Nitta conveyor is lightweight, high-strength, non-toxic, odorless, and resistant to oils, chemicals, and wear. Each line includes products with anti-static properties. Maximum width varies by product type: most European-style belting comes in widths up to 2 or 3m; other types are offered in narrower widths. Specific features of each product line include:

- **PVC/Polyurethane (European-style) – Made in Holland**
  - Polyester carcass – fabric options vary by application
  - Strengths from 5 N/mm to 48 N/mm
  - One-, two- and three-ply construction
  - PVC or TPU covers – variety of colors, durometers, profiles
  - Bare or impregnated fabric
  - Selected products USDA/FDA approved

- **High-Duty – Made in Japan**
  - Premium line of specialized conveyor belting
  - High-precision fabrics
  - Mostly polyester
  - Wide cover range: PVC, TPU, NBR, EPDM, Teflon, silicone
  - Problem-solver belts for sticky products, tough conditions, or applications requiring resistance to heat or chemicals

- **Nylon Conveyor (PolyBelt) – Made in Suwanee, Georgia**
  - Strong nylon core of a power transmission belt, but with an uncovered pulley side for use over slider beds
  - Extended-life skived joining, high operating duty cycles
  - Good in shock load situations
  - “Made in the USA” means quicker delivery, price stability, custom belts possible

Applications
Conveyor belts are used across many industries. Their primary use is for in-plant conveyance of unit loads, but they often perform processing tasks in addition to their conveying function. They can be found in any facility where material handling or transport of goods is performed.
**NCA offers low- and high-pressure Linemate thermoplastic hydraulic hose products manufactured in Japan. These durable, lightweight hoses are clean and eco-friendly and allow for easy piping due to small OD and tight bend radius. Assembly is quick and simple with swage or exclusive push-one “Campucka” couplings. Linemate’s high build quality and ease of use minimize downtime: installs are shorter, and systems stay up and running.**

- **Long Life** – Up to four times longer life in flex and impulse applications.
- **Superior Abrasion Resistance** – Outlasts rubber up to ten times.
- **Clean Core Tubes** – Unlike rubber, core remains clean after cut. Smooth ID means no harmful contaminants in system. Cleanliness ISO 18/16/13.
- **Wide Chemical Range** – Thermoplastic superior to rubber.
- **Lightweight by Design** – 50% lighter than rubber.
- **Small OD** – Smooth outer cover. Small bend radius means easy routing through tight or confined spaces.
- **Easy to Connect** – Swage, reusable, Campucka coupling options. Nitta exclusive “push to connect” Campucka couplings allow for fast repairs or new assemblies without special equipment, just common hand tools. (“Campucka” is short for Cut, Attend, Mark, Push, Check, Assembly.)

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**Tubing and Fittings for Pneumatics and Fluid Transport**

Nitta’s tubing products for pneumatic and fluid transport applications come in inch and metric versions. Available types include polyurethane, nylon, polyolefin, fluorocarbon, and flame-resistant. Fitting options include Push-One, Chemifit (for use in ultrapure applications), QuickSeal, and QDC.

- **Environmental Durability** – Excellent oil and chemical resistance.
- **Flexibility** – Very flexible and tight bend radius without kinking.
- **Ease of Use** – Easy to route and install in confined spaces.
- **Pure Options** – Clean tubing available, Chemifit line US FDA approved.

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**Industrial Wiper Products (Slide Seals)**

Nitta industrial wipers are used in single- and multi-axis machining centers to protect bearings and slide beds on these precision machines from metal chips and coolant, and also to contain and wipe chips and coolant from sliding door surfaces and internal compartments. Available in 16 different standard types, including: Slide Seals, Lip Seals, Telescopic Seals, and Door/Cover Wiper Seals, plus Custom Cast Seals made to specifications for a perfect seamless seal with reduced installation time and cost savings.

- **Highly Effective Sealing**
- **High Durability**
- **Easy Mountability**
- **Excellent Oil and Abrasion Resistance**
PolyBelt™ & Carryflex™ – Truly American-Made Nylon Core and Aramid Cord Power Transmission Belting

Nitta Corporation of America made a major commitment to the American marketplace in 1988 when it opened its manufacturing facility for nylon core power transmission belting in Moncks Corner, South Carolina.

In 1998, production was transferred from this factory to NCA’s new corporate office and manufacturing center in Suwanee, Georgia. NCA’s state-of-the-art Suwanee facility creates rubber- and fabric-covered nylon core power transmission belting by taking raw materials to a finished product. Nitta belting truly qualifies for “Made in America” status.

In December of 2000, NCA expanded its capabilities by installing a new Carryflex series manufacturing line for the production of low-stretch CF aramid cord belting. These belts are used in both power transmission and conveying applications where short take-ups and extreme load handling characteristics are required. In 2012, NCA modified this line to add U.S. manufacturing capability for CFTG-18SG material.

By manufacturing both nylon core and aramid cord power transmission belting in one location in America, NCA takes pride in the fact that this makes Nitta Corporation the only worldwide belting company to manufacture these products in the domestic United States. This status allows Nitta to respond to the needs of its customers in the Americas in a very quick and technically proficient manner regarding new product design and delivery.

Fabrication

The development of highly technical methods of fabricating is a specialty at NCA. At our Suwanee, Georgia, facility, Nitta PolyBelt, PolySprint, Carryflex, and conveyor belting can all be fabricated as endless or with ends prepared. We have also established hose and tubing assembly lines.

Diamond head rotary skivers are state-of-the-art for fabricating PolyBelt. The consistently flawless skives they create guarantee the quality and consistency required in many applications, such as tube winder and flour mill belting.

In 2009, NCA installed a set of PolySprint work cells, further upgrading the facility’s capacity to produce fabricated PolySprint finger-splice belts. Utilizing a water tank with chiller as part of a closed system, the new cell dramatically conserves water. This “green initiative” project exemplifies Nitta’s strong commitment both to its customers’ needs and to environmental and community responsibility.
GLOBAL SUPPORT

Distribution and Sales in the Western Hemisphere

**Distributor Coverage in All Regions**

Nitta Corporation of America’s extensive international distribution network ensures that customers throughout the Americas have easy access to Nitta products, service, and support. NCA works with local, national, and multinational distributors across the U.S., Canada, Mexico, South America, and Central America. Many of these distributors stock and fabricate Nitta products and provide on-site technical expertise.

**Knowledgeable, Experienced Sales Force**

NCA’s sales representatives are trained in all aspects of Nitta’s diverse product line and are positioned throughout North America to respond quickly to customer needs. Along with Nitta Brazil’s sales team in South America, they are ready to answer all questions and provide knowledgeable recommendations regarding Nitta’s complete range of belting, as well as hose, tubing and fittings, and industrial wiper products.

**NITTA Locations**

Nitta Corporation is based in Osaka, Japan, and is represented in the Americas by Nitta Corporation of America and its South American counterpart, Nitta Brazil. Other Nitta locations can be found throughout Europe and Asia:

**NITTA CORPORATION OF AMERICA**
7605 Nitta Drive • Suwanee, GA 30024
Toll-free: 1-800-221-3689 • Phone: 770-497-0212
Fax: 770-623-1398 • www.nitta.com

**NITTA CORPORATION**
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Naniwa-ku, Osaka 556-0022 Japan
Phone: +81-6-6563-1211 • Fax: +81-6-6563-1212
www.nitta.co.jp

**NITTA CORPORATION OF HOLLAND B.V.**
Berenkoog 25
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www.nitta.nl

**TAIWAN NITTA FILTER CO., LTD**
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Taipei, Taiwan, R.O.C.
Phone: +886-2-2581-6296
Fax: +886-2-2563-4900 • www.nitta.com.tw

**NITTA CORPORATION INDIA PVT LTD**
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Fax: +91-20-6731-3401

**NITTA BRAZIL**
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NITTA GROUP ▶ NITTA | GATES UNITTA ASIA | NITTA HAAS ▶ December 2013
“The Nitta Advantage” brings better overall product performance and value to the customer (end user):

- **Highest Quality Products**
  Rugged, durable, long-lasting, and quick to install

- **Dedicated Research**
  Nitta R&D has developed exclusive products for industries served, along with continued development of nylon core belting

- **Adaptability and Problem Solving**
  Nitta’s experts can look at trouble spots on-site, improving efficiency by finding the right product for each application, and ensuring correct endless procedures and installation

- **Testing Programs**
  To prove value and establish baselines

- **Guaranteed Performance Program**
  To demonstrate Nitta products are superior

- **Very Knowledgeable and Helpful Support**
  Nitta’s high level of customer commitment doesn’t just stop once the sale is made

- **End User Focus**
  Developing demand for Nitta products by doing the right thing for the end user

- **Locally Made**
  Nitta is the only worldwide belting company with nylon core and aramid cord production in the U.S.

- **Best Value**
  Nitta shows a measurable overall cost savings on total performance at each location as a direct result of using Nitta products, focused on reduced downtime, higher speeds, and fewer quality issues with finished goods

Through these principles, Nitta improves customer ROI and decreases the total cost of production.