nVent LENTON

We connect and protect

Mechanical Rebar Splicing Systems

Houston Ship Channel, USA

nVent.com/LENTON

nVent LENTON Rebar Splicing

Engineered Products for Every Project

NVENT LENTON MECHANICAL REBAR SPLICES: PROVEN AND TESTED

Rebar Splicing Specialists

Designed by nVent LENTON engineers who understand inherent rebar splicing issues.

Customer Safety

Our solutions are created with a Safety First mindset.

Installs Quickly

Our products are designed for ease-of-use, eliminating the need for specialized tools and skilled labor.

Ensures Deadline Completion

nVent LENTON has a history of successfully supporting multiple large projects simultaneously.

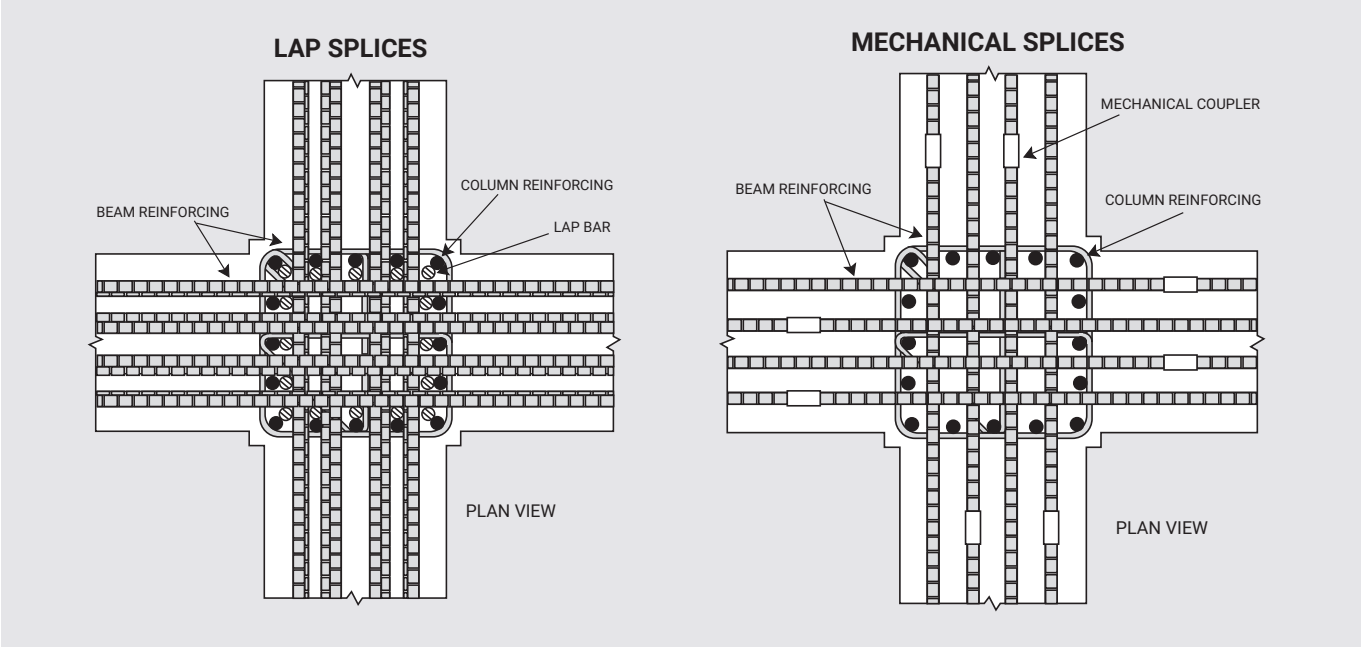
Available in Multiple Regions

Our global supply model allows us to produce in-region and for-region.

Meets Code Requirements

We are constantly adding product approvals and certifications to our already extensive library.

Benefits of Mechanical Splicing



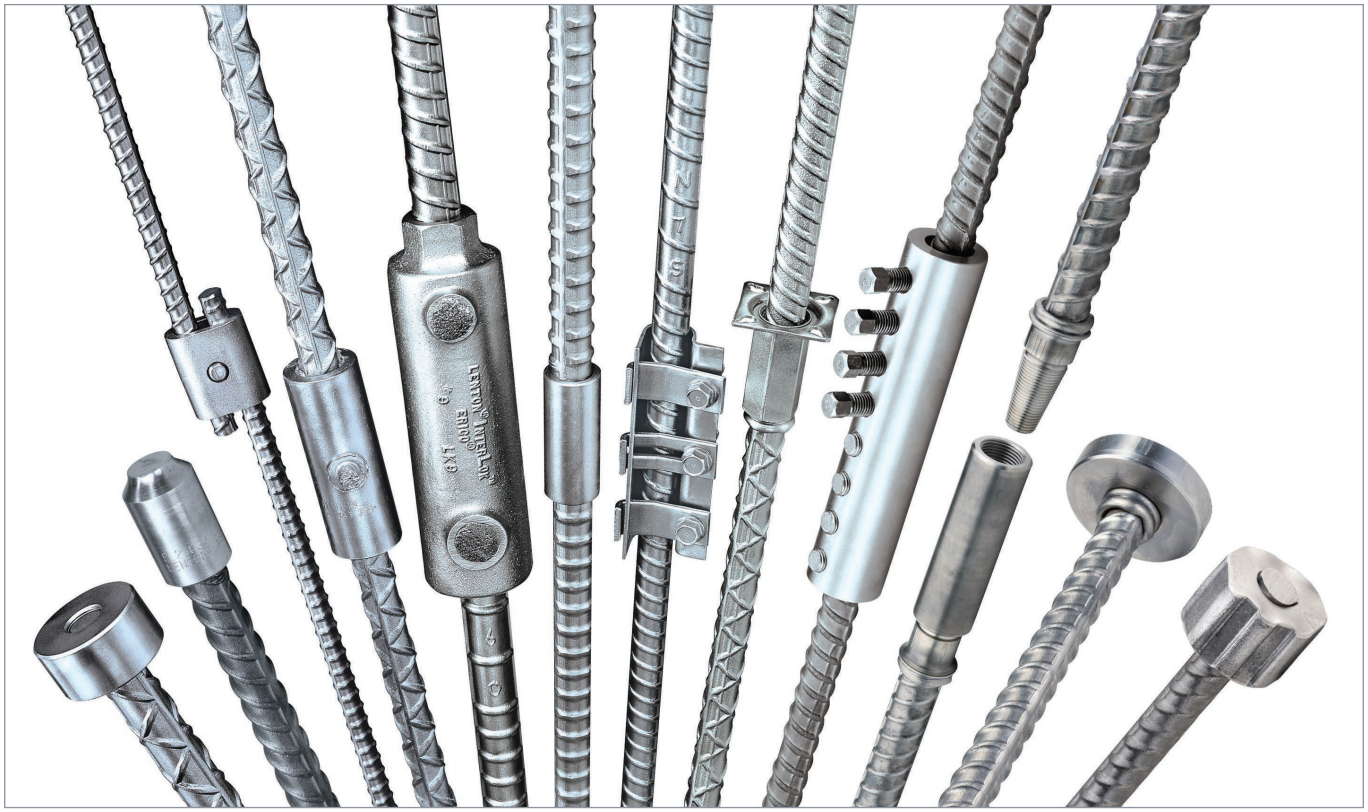
BENEFITS OF MECHANICAL SPLICING

- Mechanical splicing systems offer reliability and structural integrity. By not having to rely on concrete for the load transfer, building strength is ensured during seismic events.
- Codes require that mechanical splices deliver higher performance than typical design lengths for lap splices (typically 125-150% greater).
- Mechanical splices eliminate a common issue created by lap splices: rebar congestion.
- Building codes require a steel ratio under 8%, elimination of lap splices aids in achieving this requirement.

WITH MECHANICAL SPLICES USER'S CAN:

1. Eliminate tedious lap calculations
2. Install quickly and easily without skilled labor
3. Accelerates job schedules, speeding up project completion
4. Reduces labor and improves job site safety

Mechanical Splicing



TRUSTED PARTNER FOR MECHANICAL SPLICING AND REBAR TERMINATORS

Safety and Reliability

Mechanical splicing systems and anchors offer reliability and greater structural integrity. Durability coatings available to increase longevity.

Code Compliant

Codes require higher performance for mechanical splices than lap splices, typically 125–150% greater.

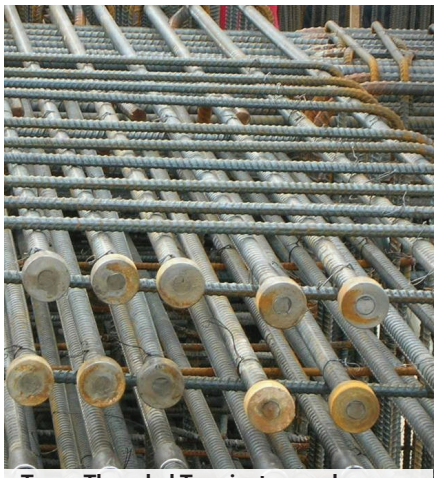
Designed for Many Applications

Designed for mechanical splicing and anchoring, bent bar, dowel bar replacement and rebar/retrofit applications.

nVent LENTON has a BIM library available to you. Unlock the power of 3D modeling today.

nVent LENTON Product Offerings

Taper-Threaded Splicing Systems

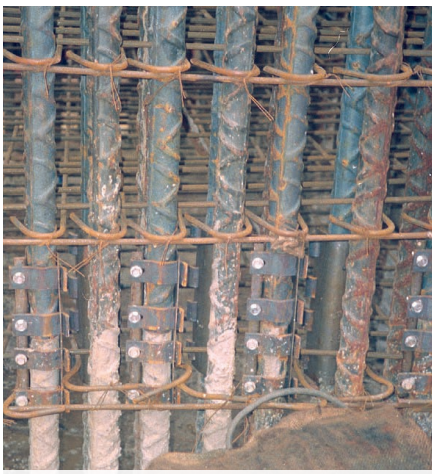


Taper-Threaded Terminators and Mechanical Anchors

Interlok Grout-Filled Precast Splicing System

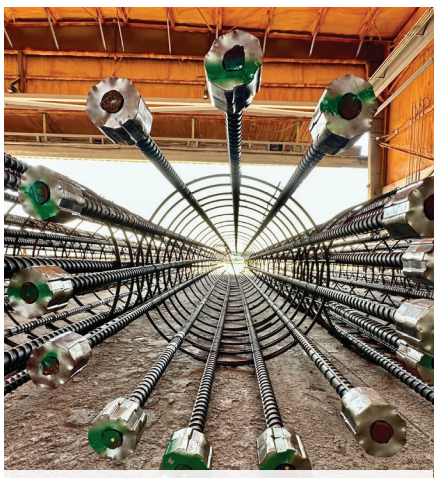
Ultimate Splicing System and Terminators

Connect Shear Bolt Splicing System



Speed Sleeve Compression-Only Splices

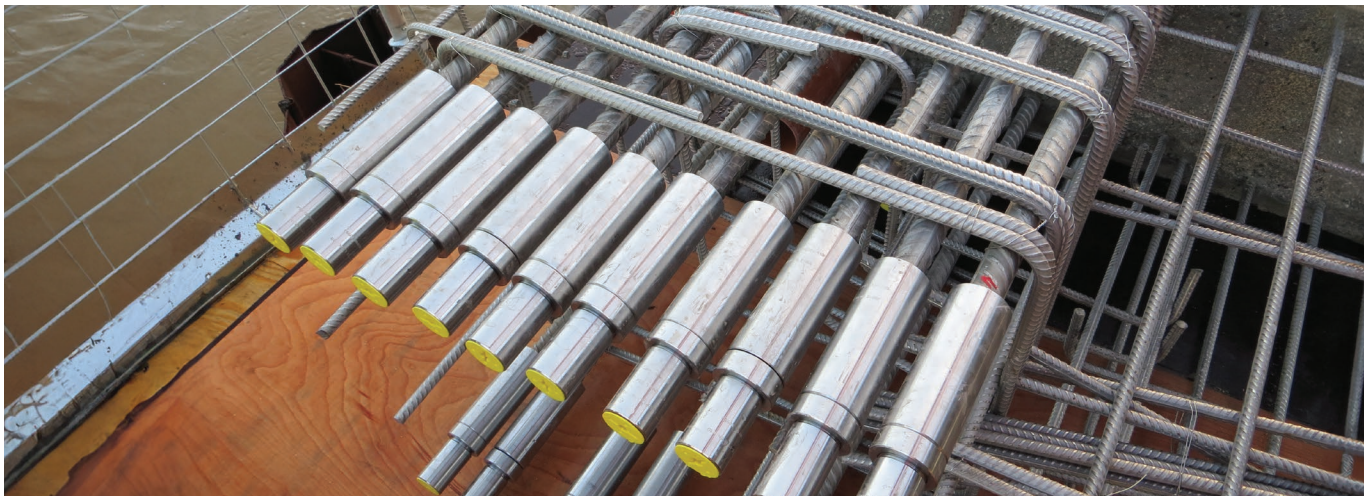
Cadweld Metal-Filled Splicing System



Swaged Terminator

Quick Wedge Mechnical Lap Splicing System

nVent LENTON Taper-Threaded Splicing Systems



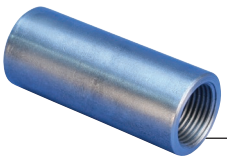
Internationally Code Compliant

Four and a Half Turns to Engage

Small Coupler Diameter Reduces Concrete Cover

No Special Tools Required

nVent LENTON Taper-Threaded Splicing Systems provide a positive locking connection and structural integrity in reinforced concrete construction. nVent LENTON spliced bars behave as continuous lengths of reinforcing steel bars by providing "full strength" in tension, compression and stress reversal applications. The nVent LENTON self-aligning, taper-threaded design provides for ease of installation, consistent performance and durability.



nVent LENTON Standard Couplers

nVent LENTON Form Saver Couplers

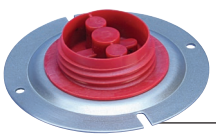
nVent LENTON Position Couplers

nVent LENTON Weldable Couplers

nVent LENTON Parallel Bolt Couplers

nVent LENTON Special Couplers

nVent LENTON Reinforcing Bar Assemblies

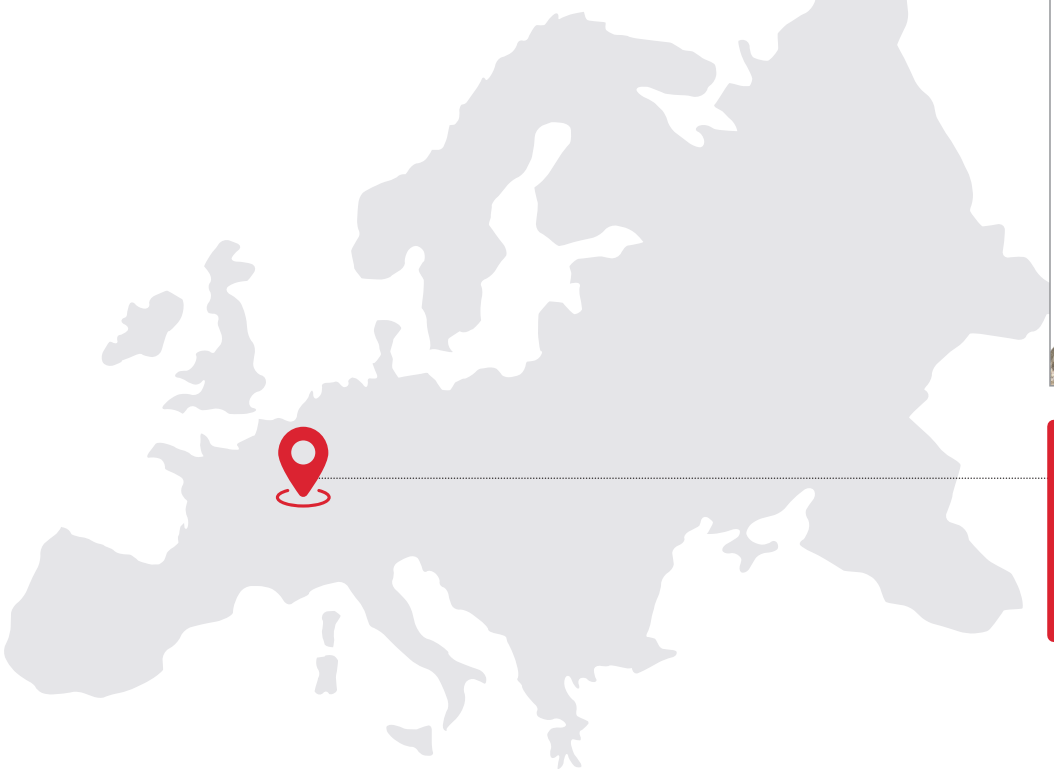


nVent LENTON Taper-Threaded Splicing System Accessories

nVent LENTON Projects

With Taper-Threaded Splicing Systems

European Central Bank Headquarters



nVent LENTON Standard Couplers

Frankfurt, Germany

European Central Bank Headquarters

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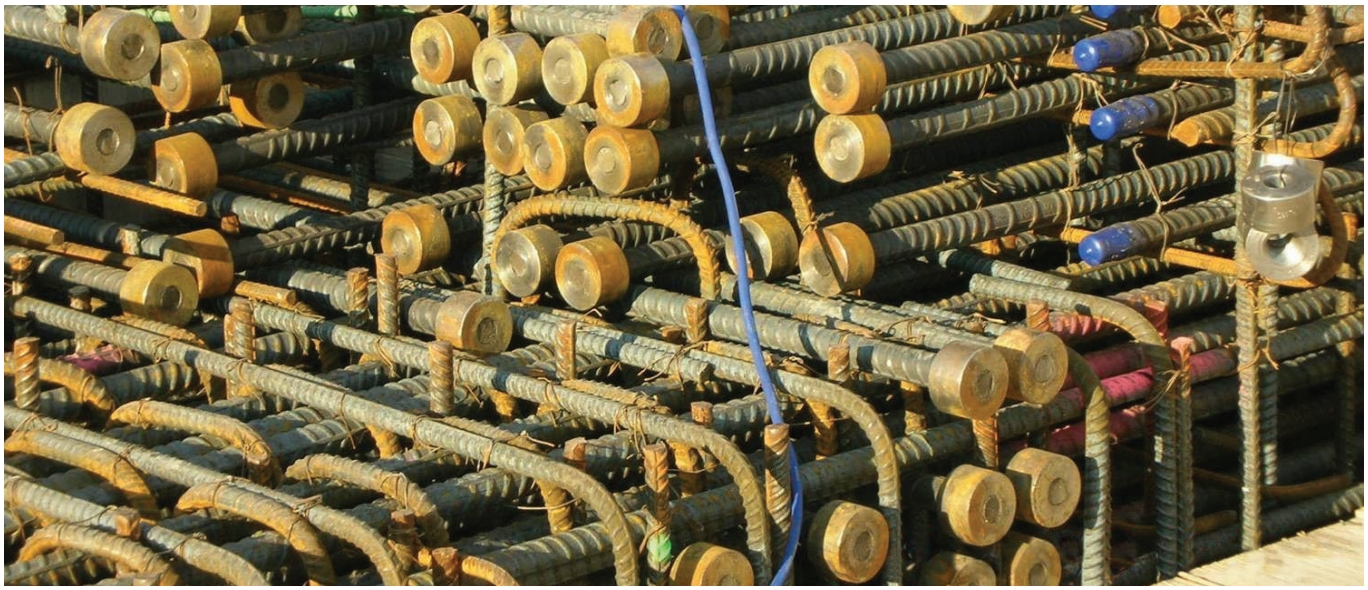
nVent LENTON Taper-Threaded Terminator and Mechanical Anchors



Time-Tested and Field Proven

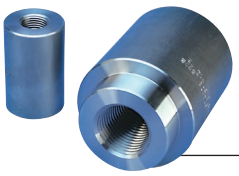
Greater Design Flexibility

Four and a Half Turns to Engage

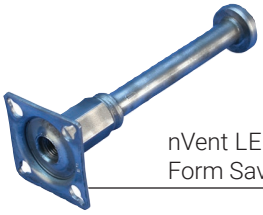
No Special Tools Required

Mechanical anchors, often called headed bars, are secured to the end of a length of reinforcing steel bar (rebar), creating anchorage within the concrete. This approach greatly simplifies reinforcing bar placement and reduces congestion. The nVent LENTON Terminator incorporates the time-tested and field-proven nVent LENTON tapered thread to attach the "head" to the reinforcing bar.

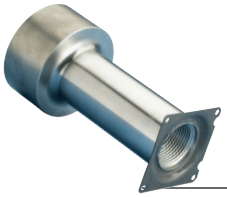
nVent LENTON Mechanical Anchors



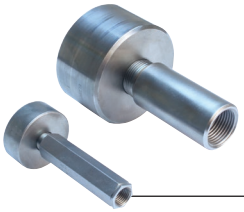
nVent LENTON Mechanical Anchors for Future Extension



nVent LENTON Form Saver Anchors



nVent LENTON Form Saver with Large Anchor



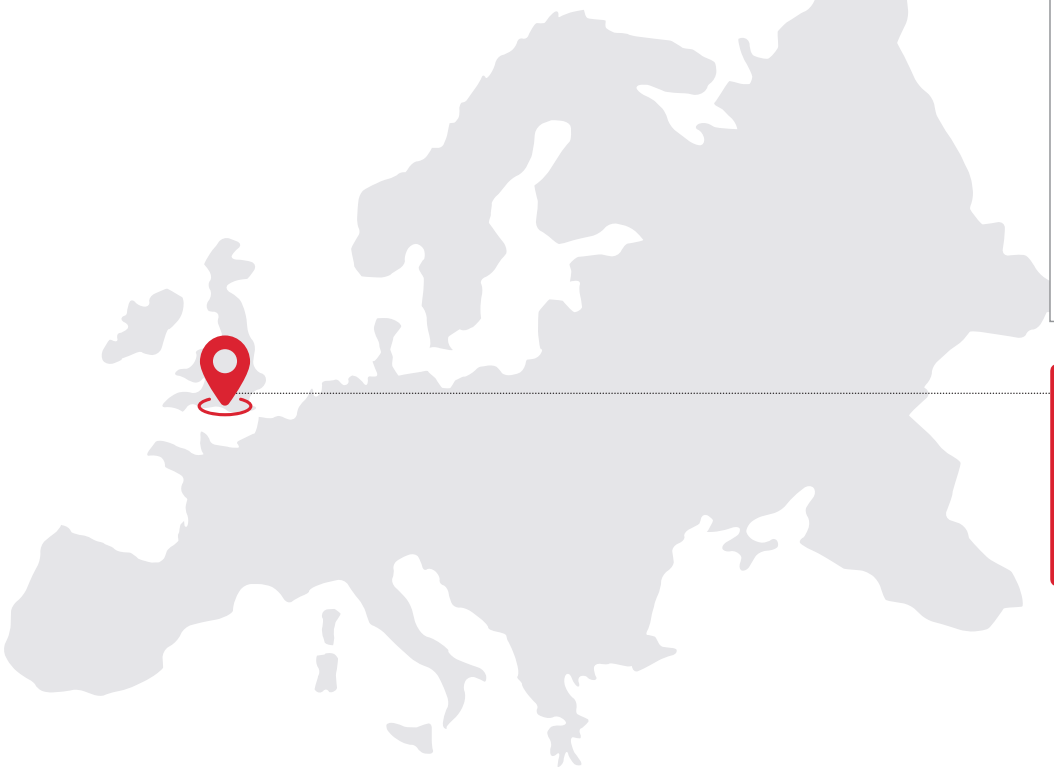
nVent LENTON Mechanical Anchors with Extension

nVent LENTON Mechanical Anchor with Male Bar

nVent LENTON Projects

With Taper-Threaded Terminators

St. Pancras International Railway Station



nVent LENTON Terminators

London, United Kingdom

St. Pancras International Railway Station

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nVent LENTON Ultimate Splicing Systems and Terminator

Maximizes Splice Performance

Simplifies Installation

Quality Inspection Process

The nVent LENTON Ultimate Splicing Systems and Terminators are designed to maximize performance and shop efficiency as well as minimize installation difficulty in the field. Ultimate products are attached to the reinforcing steel using friction forging technology (commonly called friction welding). Each friction welder is manufactured with state-of-the-art control systems and quality monitoring to ensure every connection is produced as intended. The product design and optimized friction welding parameters maximize the performance of the rebar connections with multiple types and grades of rebar. The Ultimate system is robust, allowing for the inherent variability of rebar while maintaining the highest level of performance.

nVent LENTON Ultimate Taper Studs

nVent LENTON Ultimate Standard Couplers

nVent LENTON Ultimate Position Assemblies

nVent LENTON Ultimate Terminators

nVent LENTON Projects

With Ultimate Standard Couplers

Salt Lake City Tabernacle

nVent LENTON Ultimate Couplers

Salt Lake City, United States

Salt Lake City Temple

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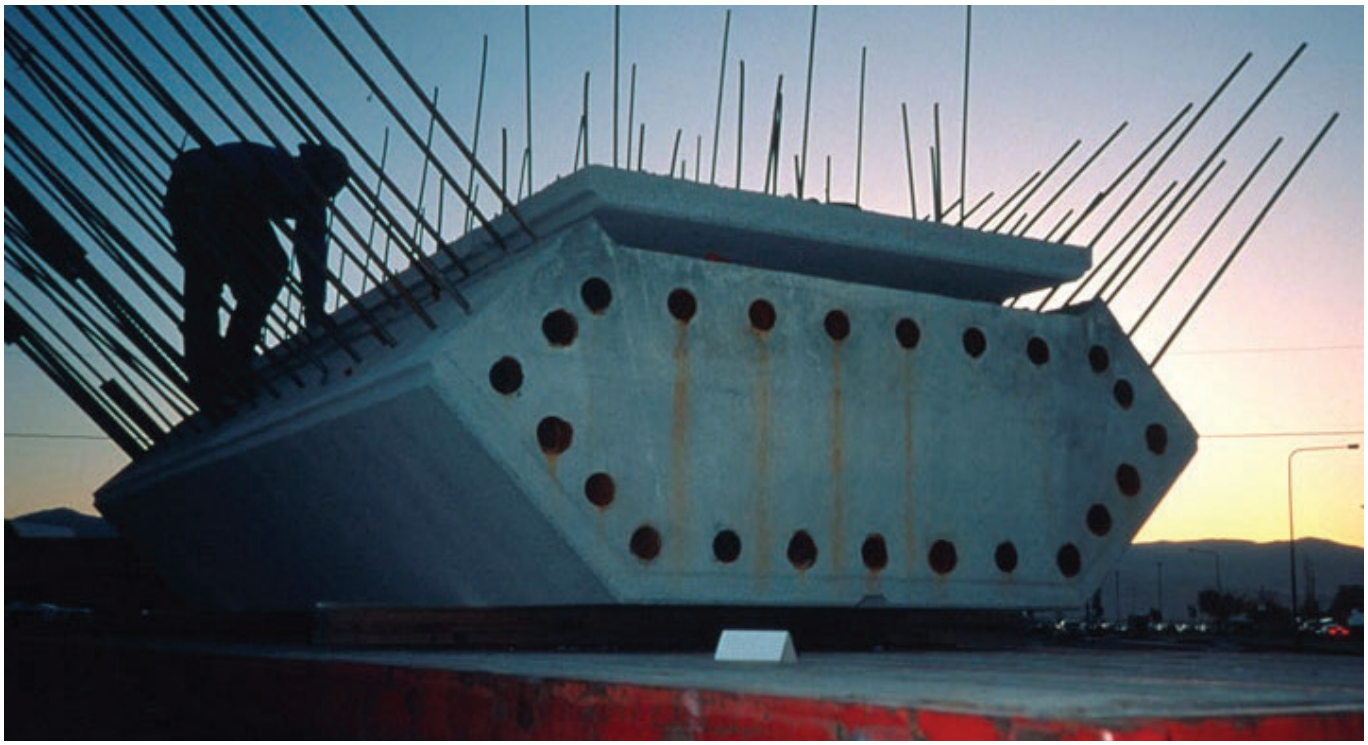
nVent LENTON Interlok Grout-Filled Precast Splicing System

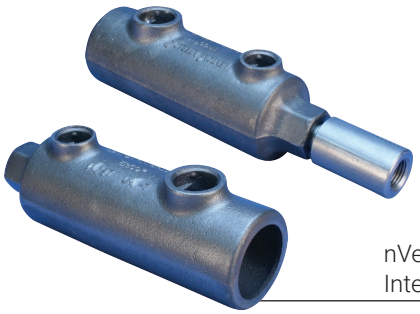


Hot and Cold Temperature Additives

Seismic-Rated Performance

Speedy Installation

nVent LENTON Interlok was engineered for use in precast construction. It is designed to provide structural integrity between load bearing precast concrete elements such as columns, beams, shear walls, and panels. nVent LENTON Interlok provides superior dynamic, seismic and ultimate strength performance for moment frame applications.



nVent LENTON
Interlok Grout-Fill Couplers

nVent LENTON
Interlok Accessories

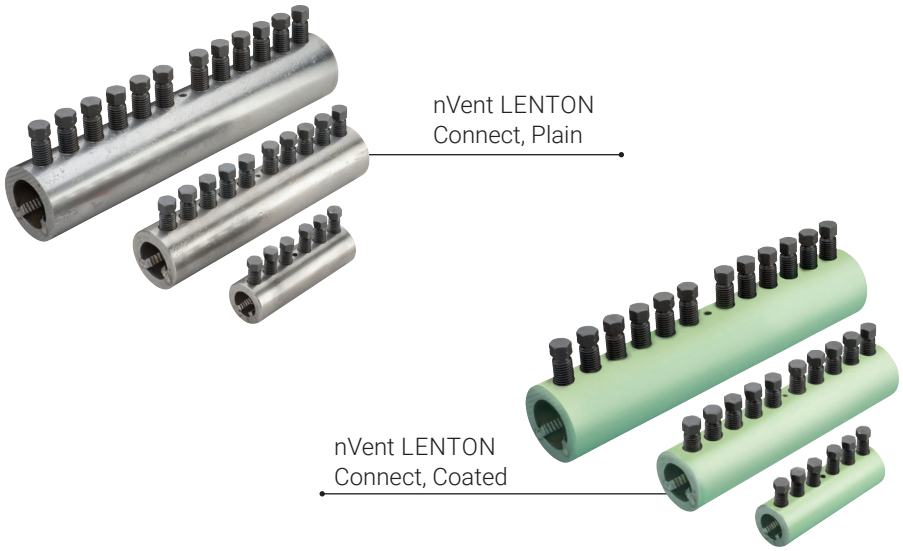
nVent LENTON Connect Shear Bolt Splicing System

No Bar
End Preperation

Easy to
Inspect

Suitable for in
Situ Splices

nVent LENTON Connect is an in situ reinforcing steel bar splicing system that requires no bar end preparation. It is ideal for new construction, repair or retrofit applications. The coupler features two integral serrated rails that provide for the development of full reinforcing bar (rebar) strength and improved overall structural integrity in tension, compression, stress-reversal and dynamic applications. Connect is designed for use in column splicing, bridge applications, piling, splicing to protruding dowels cast in concrete, closure pours, beams and other demanding splicing applications. This product line is available in multiple series and lengths depending on job site performance needs.



nVent LENTON Cadweld Metal-Filled Splicing System

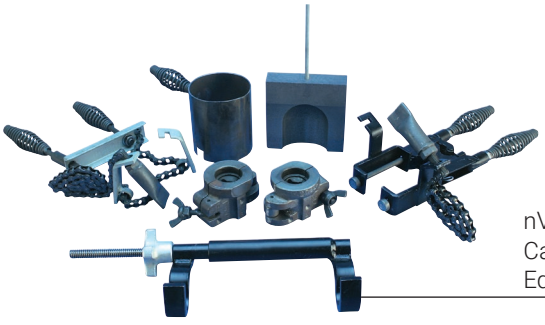
Time-Tested and Field Proven

High Tensile Performance

Suitable for In Situ Splicing

The nVent LENTON Cadweld reinforcing steel bar splice is a mechanical butt splice (a metal filled splice, not a welded splice) that produces a joint with basically the same mechanical properties as those of an unspliced bar. The primary usage for nVent LENTON Cadweld splices are on critical structures including blast resistant facilities, reinforced concrete pressure vessels, seismic structures and nuclear reactor containment structures. The generous cavity in the sleeve is ideal for joining misaligned or circumferential bars.

nVent LENTON Cadweld Splice Kits



nVent LENTON Cadweld Installation Equipment Kits

nVent LENTON Projects

With Cadweld Metal Filled Splices

Kori Nuclear Power Plant

nVent LENTON Cadweld

Busan, South Korea

Kori Nuclear Power Plant

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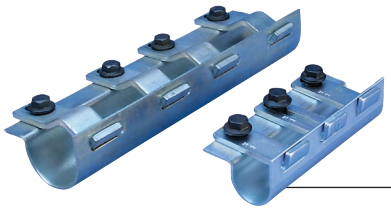
nVent LENTON Speed Sleeve Compression-Only Splices

Easy-to-Use

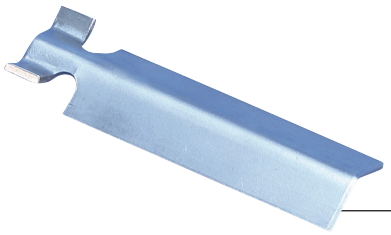
No Special Tools Required

Suitable for Compression-Only in Situ Splicing

nVent LENTON Speed Sleeve is the ideal mechanical splice for compression-only steel reinforcement applications. The system is designed to allow compressive loads to be transferred by aligning square cut reinforcing steel bar (rebar) ends to bear on one another.



nVent LENTON
Speed Sleeve Couplers



nVent LENTON
Speed Sleeve Transition Adaptor

nVent LENTON Quick Wedge Mechanical Lap Splicing System

Cost Effective

Quick and Easy to Use

No Bar End Preparation

nVent LENTON Quick Wedge is a simple and quick alternative for joining small diameter reinforcing steel bars (rebar). The splice consists of an oval-shaped steel sleeve and a wedge pin. Installation is made in seconds by overlapping bars in the steel sleeve and driving the wedge pin between the bars with a portable hydraulic hand tool. Typical applications include bridge repair, road repair, building extensions, spiral reinforcement, stirrups and ties, and pile extensions.

nVent LENTON
Quick Wedge Couplers and Pins

nVent LENTON
Quick Wedge Installation Equipment

nVent LENTON Swaged Terminator

Speedy Installation

No Bar End Preparation

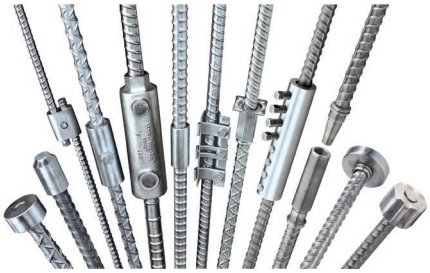
Easy to Inspect

When creating the nVent LENTON Swaged Terminator System, cold forging technology is utilized to quickly attach the terminator (head) to the reinforcing steel bar. The system is designed to maximize operator safety and product performance while increasing shop productivity. The tooling is designed to be lightweight, making tool changes fast and safe with training only taking a few minutes. nVent LENTON Swaged Terminators come in two diameters (DT14 and DT16) to meet various job site requirements.

nVent LENTON
D16 Swaged Terminator

nVent LENTON
D14 Swaged Terminator

A Look at nVent LENTON Concrete Reinforcement Products



WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at nVent.com/LENTON and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and/or death, and void your warranty.

nVent LENTON is a world leader in advanced mechanical rebar splicing systems. Our Rebar Splicing Specialists understand the reinforced concrete business and inherent rebar splicing challenges on today's job sites. nVent LENTON offers a wide range of Mechanical Splices for a wide variety of construction needs:

- nVent LENTON Taper-Threaded Splicing Systems – Ideal alternative to conventional lap splices
- Mechanical Anchors including nVent LENTON Terminator – Ideal alternative to hooked rebar anchorage and shear reinforcement
- nVent LENTON Ultimate Splicing Systems and Terminators – Ideal for high-strain, fatigue, seismic and nuclear performance requirements
- nVent LENTON Interlok Grout-Filled Precast Splicing System – Ideal for precast structures
- nVent LENTON Quick Wedge Lap Splicing System – Ideal for retrofit applications
- nVent LENTON Speed Sleeve Compression-Only Splices – Designed Only for compression applications in columns and walls
- nVent LENTON Cadweld - Ideal for curved rebar in nuclear containment structures
- nVent LENTON Connect Shear Bolt Splicing System – Ideal in situ construction
- nVent LENTON Swaged Terminator – Ideal alternative for high-volume headed bar terminators

As your rebar splicing specialist, nVent LENTON offers you the expertise you need for all your rebar splicing projects.

nVent Engineered Electrical & Fastening Solutions is a leading global manufacturer and marketer of superior engineered products for niche electrical, mechanical and concrete applications. These nVent products are sold globally under a variety of market-leading brands: nVent ERICO welded electrical connections, facility electrical protection, and rail and industrial products; nVent CADDY fixing, fastening and support products; nVent ERIFLEX low voltage power and grounding connections; and nVent LENTON engineered systems for concrete reinforcement. For more information on nVent ERICO, CADDY, ERIFLEX and LENTON, please visit nVent.com/LENTON.

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