

# Ultimate Splicing Systems and Terminators

Salt Lake City Temple

# Why nVent LENTON Ultimate Splicing Systems and Terminators?

## VERSATILE AND HIGH-PERFORMANCE SYSTEM

The nVent LENTON Ultimate Splicing Systems and Terminators are designed to maximize performance and fabrication efficiency as well as minimize installation difficulty in the field. With a broad range of product options, customers can improve productivity and ensure fast and easy installations.

## PRODUCT PERFORMANCE

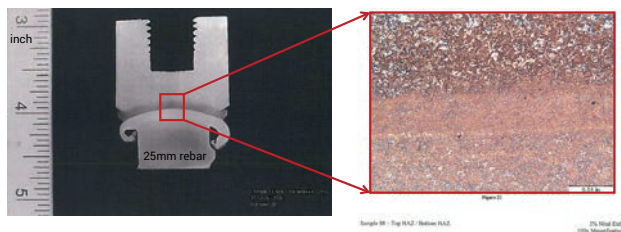
It is the goal of nVent LENTON to not only meet expectations but also exceed them. With superior fatigue and seismic performance, nVent LENTON Ultimate Couplers and Terminators tensile strength exceeds the capacity of the rebar, ensuring a long-lasting, solid connection.

Designed to meet all relevant global standards, including but not limited to: AASHTO; ABNT NBR 8548:1884; ACI 318-19 Type 1 (125% Specified Yield); ACI 318-19 Type 2 (Specified Tensile); ACI 349; ACI 359 and ACI 318-25 Classes L, G and S.



## INSTALLATION AND DESIGN BENEFITS

- High-quality steel that provides a stronger connection than the parent material itself
- Friction-welded connection to the rebar produces an extremely narrow heat-affected zone
- Flexibility in developing any kind of connector, unique to your project needs and requirements
- Works with multiple types and grades of globally available reinforcing steel



## EQUIPMENT BENEFITS

With an extensive range of bar-end processing equipment, coupled with a comprehensive directory of documentation, nVent LENTON is your technical expert, ready to provide guidance both on and off the job site. nVent LENTON Ultimate Splicing System equipment prioritizes speed and reliability, no matter the size of the connection being created. Some of the benefits to this offering include:

- No consumables
- Built-in quality control flags
- Maintenance alarms
- Troubleshooting manuals
- Remote troubleshooting and technical support
  - Get live help from an nVent LENTON expert on-site



See more information about nVent LENTON Ultimate Splicing System and Terminators at:

<https://www.nVent.com/en-us/LENTON/products/nVent-LENTON-ultimate-splicing-systems-and-terminators>

# Maximize Installation Efficiency

## FRICTION-WELDING TECHNOLOGY

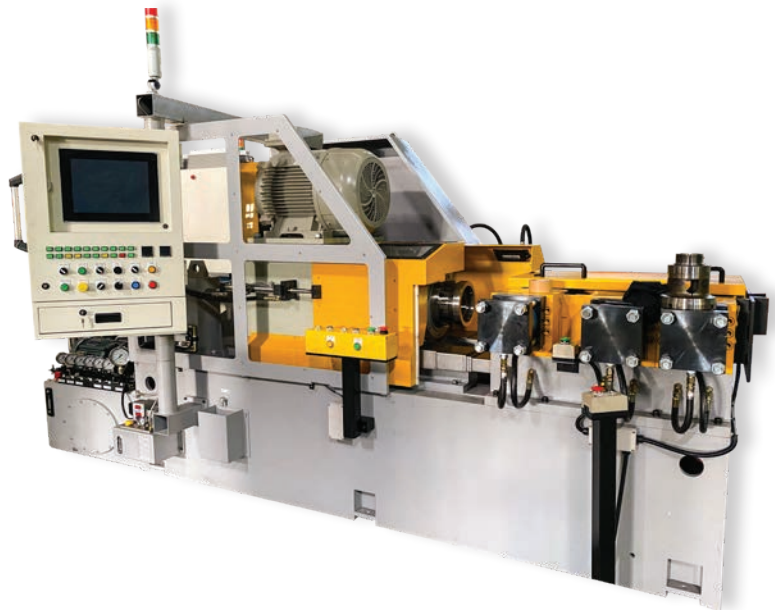
nVent LENTON Ultimate products are attached to the reinforcing steel using friction welding technology (commonly called friction forging).



### What is Friction-Welding?

Friction welding is a solid-state joining process that employs frictional heat and pressure to produce joints free from impurities or filler materials that are stronger than the parent materials.

Each nVent LENTON Ultimate Friction Welder is equipped 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. Additionally, nVent LENTON offers detailed manuals and instructional videos on the friction welding process to ensure confidence at every step.

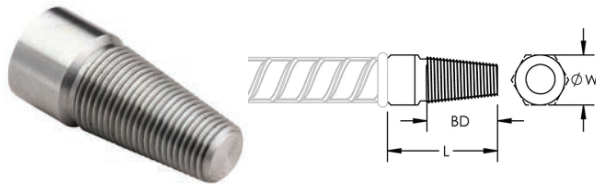


Contact the nVent LENTON team today by scanning the QR code.



# nVent LENTON Ultimate Splicing Systems

## NVENT LENTON MT12 MALE TAPER STUD



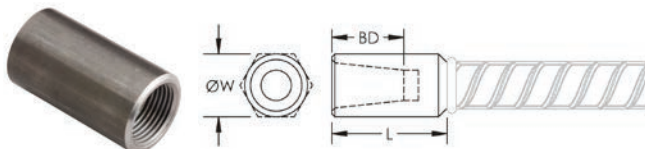
**Material:** Steel  
**Finish:** Plain

The nVent LENTON MT12 Male Taper Stud is used in conjunction with the nVent LENTON FT12 Female Standard Coupler for bar-to-bar connections and the PM15 Female Position Assembly for position/caging connections.

- Slim design maintains concrete cover
- Installs quickly and easily
- Utilizes the standard nVent LENTON taper profile
- No special tools or skills required

| Catalog Number | Rebar Size, US | Rebar Size, Canada | Hex Width W | Diameter Ø | Length L | Bar Depth BD | Unit Weight |
|----------------|----------------|--------------------|-------------|------------|----------|--------------|-------------|
| LU12MT12D      | #4             | 10 M               | 0.69"       | —          | 1.66"    | 0.84"        | 0.1 lb      |
| LU16MT12D      | #5             | 15 M               | 0.88"       | —          | 1.89"    | 1.06"        | 0.2 lb      |
| LU20MT12D      | #6             | 20 M               | 1.06"       | —          | 2.41"    | 1.54"        | 0.4 lb      |
| LU22MT12D      | #7             | —                  | 1.06"       | —          | 2.66"    | 1.63"        | 0.5 lb      |
| LU25MT12D      | #8             | 25 M               | 1.19"       | —          | 2.8"     | 1.73"        | 0.6 lb      |
| LU28MT12D      | #9             | 30 M               | —           | 1.38"      | 2.88"    | 1.82"        | 0.8 lb      |
| LU32MT12D      | #10            | —                  | —           | 1-1/2"     | 3.21"    | 1.95"        | 1.2 lb      |
| LU36MT12D      | #11            | 35 M               | —           | 1-3/4"     | 3.47"    | 2.21"        | 1.6 lb      |
| LU43TMT12D     | #14            | 45 M               | —           | 2"         | 4.48"    | 2.9"         | 2.8 lb      |
| LU57TMT12D     | #18            | 55 M               | —           | 2-1/2"     | 5.4"     | 3.57"        | 5.8 lb      |

## NVENT LENTON FT12 FEMALE STANDARD COUPLER



**Material:** Steel  
**Finish:** Plain

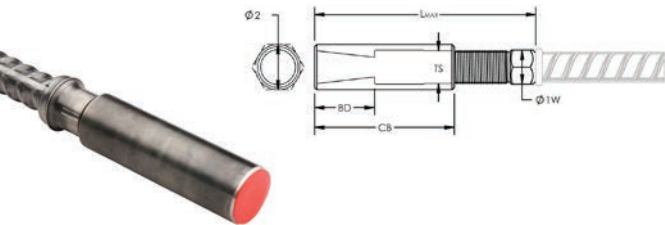
The nVent LENTON FT12 Female Standard Coupler is used in conjunction with the nVent LENTON Ultimate MT12 Male Taper Stud for bar-to-bar connections.

- Slim design maintains concrete cover
- Installs quickly and easily
- Utilizes the standard nVent LENTON taper profile
- No special tools or skills required
- Designed to splice the same diameter bars where the second bar can be rotated and is not restricted in its axial direction

| Catalog Number | Rebar Size, US | Rebar Size, Canada | Hex Width W | Diameter Ø | Length L | Bar Depth BD | Unit Weight |
|----------------|----------------|--------------------|-------------|------------|----------|--------------|-------------|
| LU12FT12D      | #4             | 10 M               | 0.69"       | —          | 1.54"    | 0.84"        | 0.1 lb      |
| LU16FT12D      | #5             | 15 M               | 0.88"       | —          | 1.82"    | 1.06"        | 0.2 lb      |
| LU20FT12D      | #6             | 20 M               | 1.06"       | —          | 2.48"    | 1.54"        | 0.5 lb      |
| LU22FT12D      | #7             | —                  | 1.19"       | —          | 2.6"     | 1.63"        | 0.6 lb      |
| LU25FT12D      | #8             | 25 M               | —           | 1.38"      | 2.77"    | 1.73"        | 0.8 lb      |
| LU28FT12D      | #9             | 30 M               | —           | 1-1/2"     | 2.87"    | 1.82"        | 0.9 lb      |
| LU32FT12D      | #10            | —                  | —           | 1-3/4"     | 3.04"    | 1.95"        | 1.3 lb      |
| LU36FT12D      | #11            | 35 M               | —           | 1.88"      | 3.37"    | 2.21"        | 1.6 lb      |
| LU43TFT12D     | #14            | 45 M               | —           | 2-1/4"     | 4.39"    | 2.9"         | 3 lb        |
| LU57TFT12D     | #18            | 55 M               | —           | 3"         | 5.23"    | 3.57"        | 6.4 lb      |

# nVent LENTON Ultimate Splicing Systems

## NVENT LENTON PM15 FEMALE POSITION ASSEMBLY



**Material:** Steel  
**Finish:** Plain  
**Coupler Adjustment:** Standard

The nVent LENTON PM15 Female Position Assembly is used in conjunction with the nVent LENTON MT12 Male Taper Stud for positional/caging connections.

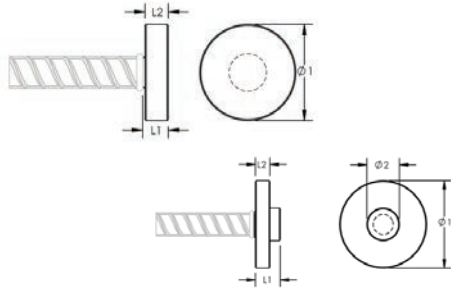
- Slim design maintains concrete cover
- Installs quickly and easily
- Utilizes the standard nVent LENTON taper profile
- Telescoping feature allows for gaps between mating bars
- Sight groove incorporated in the design to ensure proper installation
- No special tools or skills required
- Designed to splice two curved, bent or straight bars, when neither bar can be rotated and where the ongoing bar is NOT free to move in its axial direction

| Catalog Number | Rebar Size, US | Rebar Size, Canada | Hex Width (W) | Diameter 1 (Ø1) | Diameter 2 (Ø2) | Coupler Body (CB) | Bar Depth (BD) | Thread Size (TS) | Unit Weight |
|----------------|----------------|--------------------|---------------|-----------------|-----------------|-------------------|----------------|------------------|-------------|
| LU25PM15D      | #8             | 25 M               | 1.19"         | –               | 1-3/4"          | 4.78"             | 1.63"          | M29              | 1.3 lb      |
| LU28PM15D      | #9             | 30 M               | –             | 1.38"           | 1.88"           | 5.14"             | 1.71"          | M32              | 2 lb        |
| LU32PM15D      | #10            | –                  | –             | 1-1/2"          | 2"              | 5.52"             | 1.84"          | M36              | 2.8 lb      |
| LU36PM15D      | #11            | 35 M               | –             | 1-3/4"          | 2-1/4"          | 6.18"             | 2.1"           | M40              | 4 lb        |
| LU43TPM15D     | #14            | 45 M               | –             | 2"              | 2-3/4"          | 8.07"             | 2.71"          | M49              | 8 lb        |
| LU57TPM15D     | #18            | 55 M               | –             | 2-3/4"          | 4"              | 10.31"            | 3.39"          | M64              | 24.1 lb     |



# nVent LENTON Ultimate Terminators

## NVENT LENTON DR14 ULTIMATE TERMINATOR

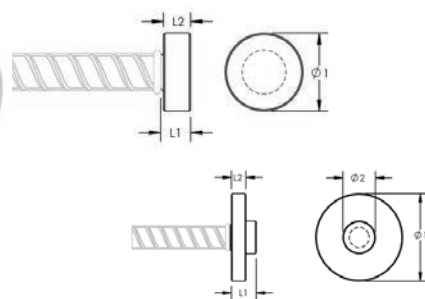


**Material:** Steel  
**Finish:** Plain

- Minimizes embedment lengths and reduces congestion
- Simplifies concrete placement
- Permanently fastened to the bar for secure transportation
- Fast installation makes them ideal for high-volume shear ties
- Head area exceeds 10x bar area (net 9x)

| Catalog Number | Rebar Size, US | Rebar Size, Canada | Diameter 1 (Ø1) | Diameter 2 (Ø2) | Length 1 (L1) | Length 2 (L2) | Unit Weight |
|----------------|----------------|--------------------|-----------------|-----------------|---------------|---------------|-------------|
| LU12DR14D      | #4             | 10 M               | 1.75"           | 0.51"           | 0.79"         | 0.59"         | 0.4 lb      |
| LU16DR14D      | #5             | 15 M               | 2"              | 0.67"           | 0.79"         | 0.59"         | 0.5 lb      |
| LU20DR14D      | #6             | 20 M               | 2.5"            | 0.83"           | 0.79"         | 0.59"         | 0.9 lb      |
| LU22DR14D      | #7             | —                  | 2.75"           | 0.91"           | 0.83"         | 0.63"         | 1 lb        |
| LU28TDR14D     | #9             | 30 M               | 4"              | 1.5"            | 1.14"         | 0.67"         | 2.7 lb      |
| LU25DR14D      | #8             | 25 M               | 3.25"           | 1.02"           | 0.98"         | 0.78"         | 1.9 lb      |
| LU32TDR14D     | #10            | —                  | 4"              | 1.75"           | 1.32"         | 0.79"         | 3.2 lb      |
| LU36TDR14D     | #11            | 35 M               | 5.13"           | 1.88"           | 1.48"         | 0.87"         | 5.7 lb      |
| LU43TDR14D     | #14            | 45 M               | 5.5"            | 2.25"           | 1.75"         | 1.04"         | 8 lb        |
| LU57TDR14D     | #18            | 55 M               | 7.25"           | 3"              | 2.4"          | 1.44"         | 19.2 lb     |

## NVENT LENTON DR16 ULTIMATE TERMINATOR



**Material:** Steel  
**Finish:** Plain

- Minimizes embedment lengths and reduces congestion
- Simplifies concrete placement
- Permanently fastened to the bar for secure transportation
- Fast installation makes it ideal for high-volume shear ties
- Head area exceeds 5x bar area (net 4x)

| Catalog Number | Rebar Size, US | Rebar Size, Canada | Diameter 1 (Ø1) | Diameter 2 (Ø2) | Length 1 (L1) | Length 2 (L2) | Unit Weight |
|----------------|----------------|--------------------|-----------------|-----------------|---------------|---------------|-------------|
| LU12DR16D      | #4             | 10 M               | 1.38"           | 0.51"           | 0.79"         | 0.59"         | 0.3 lb      |
| LU16DR16D      | #5             | 15 M               | 1.75"           | 0.67"           | 0.79"         | 0.59"         | 0.4 lb      |
| LU20DR16D      | #6             | 20 M               | 2"              | 0.83"           | 0.79"         | 0.59"         | 0.6 lb      |
| LU22DR16D      | #7             | —                  | 2.25"           | 0.91"           | 0.83"         | 0.63"         | 0.7 lb      |
| LU25DR16D      | #8             | 25 M               | 2.5"            | 1.02"           | 0.98"         | 0.78"         | 1.1 lb      |
| LU28DR16D      | #9             | 30 M               | 2.75"           | 1.14"           | 0.98"         | 0.78"         | 1.4 lb      |
| LU32DR16D      | #10            | —                  | 3"              | 1.3"            | 1.14"         | 0.9"          | 1.9 lb      |
| LU36DR16D      | #11            | 35 M               | 3.25"           | 1.46"           | 1.22"         | 0.98"         | 2.4 lb      |
| LU43TDR16D     | #14            | 45 M               | 4"              | 2.25"           | 1.75"         | 1.04"         | 4.7 lb      |
| LU57TDR16D     | #18            | 55 M               | 5.13"           | 3"              | 2.5"          | 1.44"         | 10.8 lb     |

# 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](http://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.



ACI is a registered trademark of the American Concrete Institute.

ASTM is a registered trademark of ASTM International.

IAPMO is a registered trademark of the International Association of Plumbing & Mechanical Officials.

IBC and ICC are registered trademarks of the International Code Council.

UBC (Uniform Building Code) is a registered trademark of the International Conference of Building Officials.

We reserve the right to make any alterations to the information contained in this brochure which we consider to be either necessary or advantageous. This brochure is designed to provide only preliminary information on the products and is not a contract. The Company does not accept any liability for loss or damage arising from failure to follow its instructions to products not agreed by it.

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 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 structure
- nVent LENTON Connect Shear Bolt Splicing System – Ideal for in-situ construction
- nVent LENTON Swaged Terminator – Ideal Alternative for high-volume headed bar terminators

The entire nVent LENTON line of mechanical rebar splices has replaced many conventional splicing systems, such as welding and lap splicing. Unlike butt welding, nVent LENTON products require no special training or external power source, are quicker to install and inspect, reduce crane time, improve the tensile strength of the splice and can be installed in any weather.

As your rebar splicing specialist, nVent 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](http://nVent.com/LENTON).





### **North America**

Tel +1.800.248.2677

LENTON-OrderSupportEast@nVent.com

LENTON-OrderSupportWest@nVent.com

### **Europe**

Tel +31.13.5385.440

lentonsspecialistemea@nVent.com

### **Middle East**

Tel +971.506.255.903

### **Africa**

Tel +311.35835100

### **Asia Pacific**

Tel +61.2.9751.8500

ausorders@nVent.com

### **Latin America**

Tel +55.3686-9785

LA-cotizaciones@nVent.com



Our powerful portfolio of brands:

**CADDY**

**ERICO**

**HOFFMAN**

**ILSCO**

**SCHROFF**

**TRACHTE**