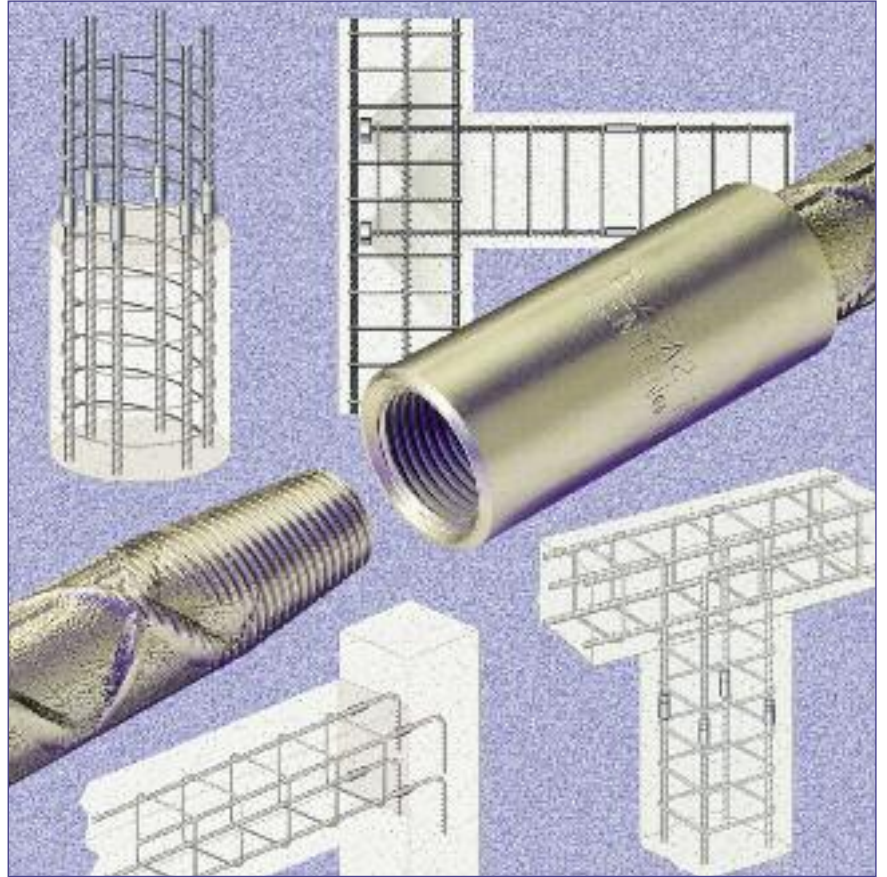


LENTON[®]

Taper Threaded Rebar Splicing Systems



ERICO[®]

For many years, the traditional method of connecting reinforcing bars has been with lap splicing. But as many structural engineers, architects and specifiers have discovered, lap splicing has very few advantages and quite a few disadvantages when compared to mechanical splicing. Read through the following pages and explore the reasons why you should consider mechanical couplers.

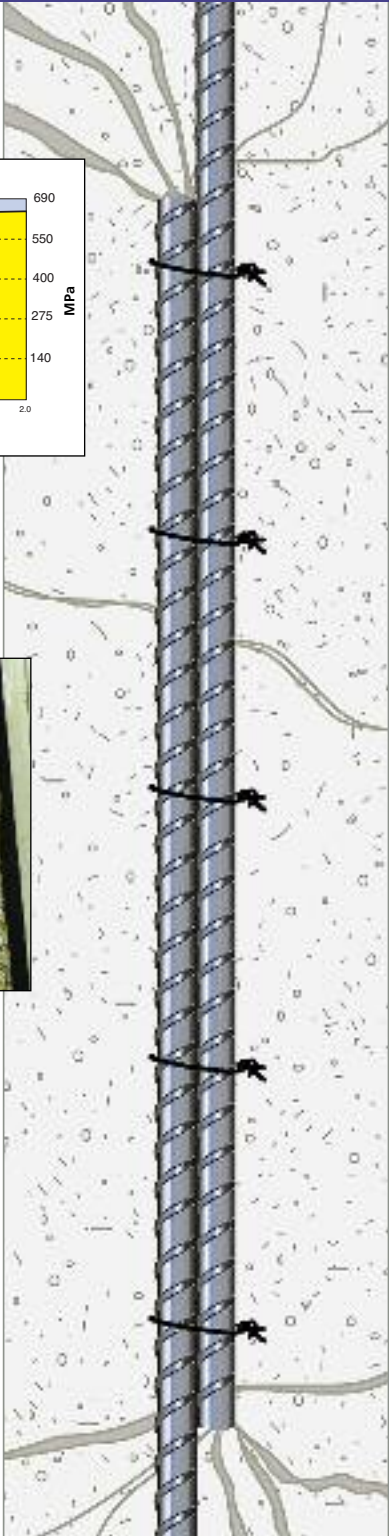
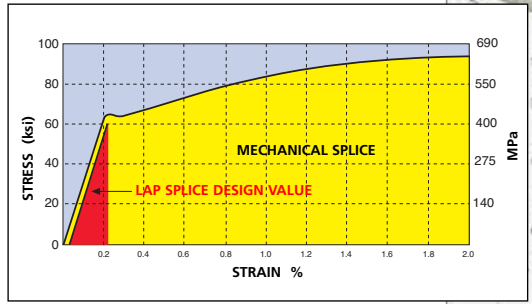
Lap Splicing vs.

Take A Look Into The Future Which system do you want to rely

Lap Splicing

Is It Reliable?

- Lap splices develop their strength from interaction with concrete
- The higher the yield stress, the greater the lap length required
- Lap splices have poor cyclic performance
- To prevent concrete splitting, additional rebar may be required for confinement



Design-Constrictive

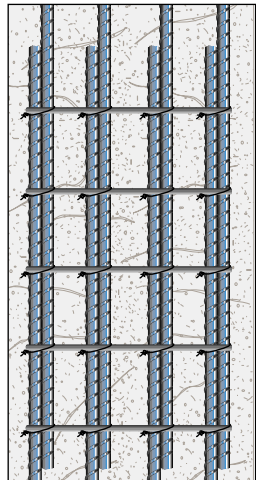
- Lap length required for bars in tension is normally longer than same size bars in compression
- Lap splices double the number of bars leading to rebar congestion which can restrict the flow of aggregates



Deterioration of concrete due to improperly designed rebar splices and lack of reinforcement, often leads to premature splice failure.

Hidden Costs

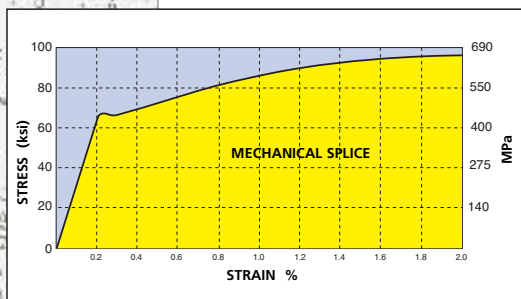
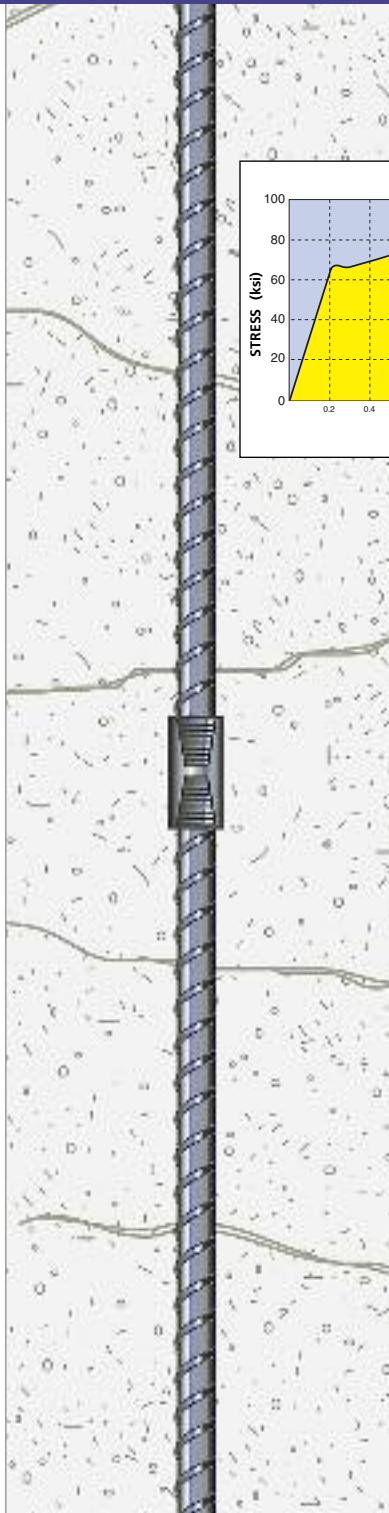
- The bigger the bar diameter, the longer the lap
- The lower the concrete strength, the longer the lap length required
- Corrosion-resistant coated bars are expensive and longer lengths may be used
- Lap splicing involves time consuming calculations, possible calculation mistakes, and overestimating



Lap splices depend on concrete for strength, and therefore lack structural integrity and continuity in concrete construction.

Mechanical Splicing

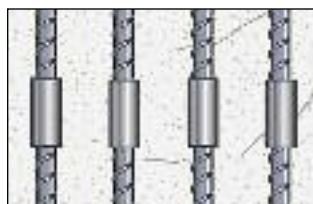
on for continuity in your concrete construction projects?



Mechanical splicing provides significantly higher strength by design than lap splicing.

Design-Friendly

- Reduces rebar congestion and improves concrete consolidation
- Improves steel-to-concrete ratio
- Eliminates lap splices in high stress regions
- Allows greater flexibility in design options



Additional Advantages

- LENTON offers an excellent current carrying capacity, or strike path, for grounding buildings
- Resistant to impact loads during man-made or natural events
- Increased column shear load capacity
- Promotes low cycle fatigue performance

LENTON® Mechanical Splicing

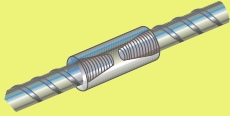
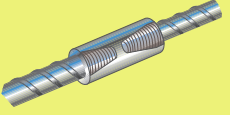
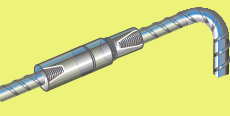
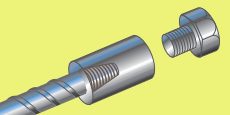
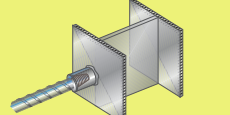
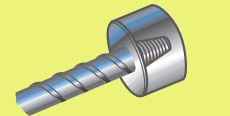
Proven Reliable

- Performs similar to a continuous piece of rebar
- Splice strength is developed independent of concrete quality
- Provides ductility independent of concrete condition
- Achieves greater strength
- Offers strength during man-made, seismic or other natural events
- Superior cyclic performance

Economical

- Requires no special skills and reduces labor costs
- Accelerates construction schedules for reduced cost and improved efficiency
- Saves valuable crane time
- Reduces material costs because less rebar is used

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Mechanical splicing provides the assurance of maintaining load path continuity of the structural reinforcement independent of the condition or existence of the concrete.

International Codes & Standards

ERICO mechanical splices meet or exceed the requirements of major international codes and standards:

| | |
|--|---|
|  | Australia AS3600 Main Roads, RTA |
|  | Austria Önorm B4700 |
|  | Brazil ABNT – NBR 8548 – AGO/84 |
|  | Canada CAN3-N287.2 CAN3-N287.3 |
|  | Chile NCH 204 |
|  | France NF A 35-020-1 |
|  | Germany DIN 1045 |
|  | Malaysia MS146 |
|  | Netherlands BRL-0504 |
|  | Norway NS 3437 |
|  | United Kingdom BS 8110 |
|  | United States AASHTO®; ACI® – ACI 318; ACI 349; ACI 359; AREA; ASME®; BOCA, CABO, ICC®, NRC, SBCCI, UBC® 1997; U.S. Army Corps of Engineers, IBC® 2006, Numerous Dept. of Transportation |

LENTON couplers are designed for nominal yield values up to 550 MPa and tensile strength values up to 750 MPa.

Recognized product approvals:

Austria: MA35 MA35B/B 558/99
Czechia: 01-329
France: AFCAB M97 / 01
Germany: Z-1.5-148
Hong Kong: Hong Kong Building Dept.
Hungary: EMI A-2165-2002
Sweden: SITAC 5573 / 93
Switzerland: EMPA / EPFL / SIA 162
The Netherlands: Komo/Kiwa K7045
Poland: ITB AT-15-4314/2002
Slovakia: A9.6/01/0248/O/O04
United Kingdom: Cares TA1-C-K5003
United States: ICC-ES ER-3967

LENTON®

Taper Threaded Splices

The world's most widely-used

LENTON Mechanical Splices from ERICO, are a taper-threaded splicing system that assures a positive locking connection, providing continuity and structural integrity to reinforced concrete construction. LENTON spliced bars behave as continuous lengths of reinforcing steel bars by providing “full strength” in tension, compression and stress reversal applications.

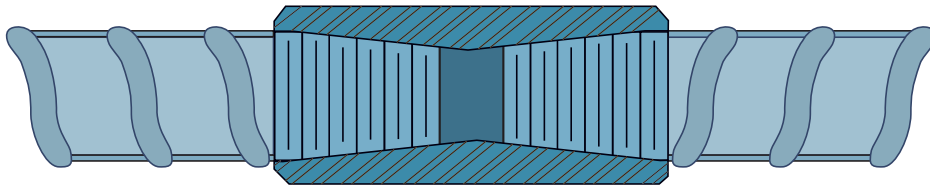
The Unique Taper-Threaded Design

The LENTON self-aligning, taper-threaded design provides ease of installation, consistent performance and durability. It also develops higher tensile strength than lap splicing and provides full load transfer with the slimmest and shortest coupler possible.

Design Benefits

- Allows maximum bar cross-section to be used
- Smallest diameter in the industry reduces need for concrete cover and eliminates rebar congestion
- Short length and slim design ensure the least disturbance to uniform stiffness
- Splice strength is independent of rebar deformation
- Unique tapered thread requires no lock nuts and provides a positive locking, no-slip connection
- Any length, shape, diameter or combination of bar sizes can be mechanically spliced

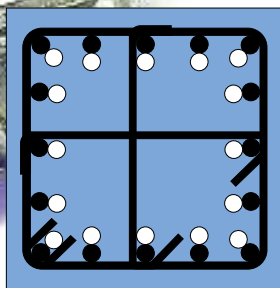
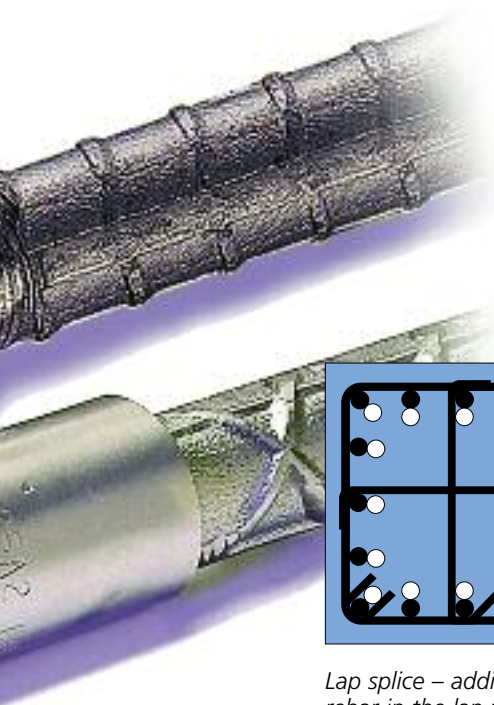




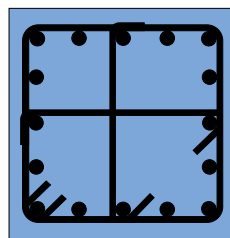
method of mechanical splicing

Installation Benefits

- Takes approximately four turns to engage
- Prevents cross-threading
- Fastest system to install:
 - No special tools or skills required
 - No power required for installation
 - Splice inspection is quick and easy
 - Reduces crane time
- Bar threader is easy to use and can be set up on-site or at the fabricator
- Because most of the work is done in the fabrication shop, construction schedules are accelerated



Lap splice – additional rebar in the lap zone.



LENTON mechanical splice – ideal balance of steel and concrete.

Provides Continuity in Economy of Design

LENTON improves steel-to-concrete ratio by eliminating half of the bars necessary in the "lap zone" of a column. Use of lap splicing may exceed the concrete to steel ratio of many international standards.

With LENTON splices, you can design smaller columns and create maximum floor space, while reducing your form costs. Form sizes can also be established for more cost savings, and LENTON couplers are excellent for future extension applications.

Project Reference

LENTON Mechanical Splicing system is used in a wide variety of projects around the globe. These are just a few examples:

-  **Australia**
Australia Stadium (Sydney)
-  **Austria**
Wiener U-Bahn, Abschnitt U3/22
-  **Bahrain**
Bahrain Causeway
-  **Belgium**
TGV Tunnel Zaventem, Brussels Metro
-  **Brazil**
Itaipu Dam, Tucuruí Dam
-  **Canada**
Toronto Skydome
-  **Chile**
Cement Plant Bio-Bio
-  **Denmark**
Storebaelt West and East Bridge
-  **Egypt**
Conrad Hotel Cairo
-  **France**
EOLE Lot 34 Gare Nord Grande Arche de la Defense Paris
-  **Germany**
Lehrer bahnhof, Berlin Commerzbank, Frankfurt
-  **Greece**
Revithoussa LNG Tanks
-  **Hong Kong**
Hong Kong International Airport Stone Cutter Bridge
-  **Indonesia**
BDNI Commercial Towers
-  **Italy**
Torre Telecomunicazioni Milano
-  **Malaysia**
Petronas Twin Towers
-  **Mexico**
ABC Hospital in Santa Fe, Mexico City
-  **Netherlands**
Waalbrug A2 Zaltbommel Amsterdam Airport
-  **Nigeria**
LNG tanks Bonny
-  **Norway**
Troll Olje Platform Control Tower in Gardemoen International Airport, Oslo
-  **Portugal**
Panoramic Tower Expo '98
-  **Qatar**
LNG tanks Doha Doha International Airport
-  **South Africa**
Lesotho Highlands Water Scheme Katse Intake Tower
-  **Spain**
Puente del Alamillo Barcelona Olympic Stadium
-  **Sweden**
Göta Tunnel, Gothenburg Aosta Bridge, Stockholm
-  **Switzerland**
Wasserkraftwerk Wynau
-  **Turkey**
Metro Istanbul
-  **United Arab Emirates**
Burj Dubai
-  **United Kingdom**
Canary Wharf, Channel Tunnel Terminal T5 Heathrow Airport
-  **United States**
San Francisco Intl. Airport Venetian Hotel and Casino Olmstead Lock and Dam Trump Tower San Francisco Bay Bridge
-  **Venezuela**
Macagua II Dam & Power House

LENTON® Taper Threaded Mechanical Splices are as good as having money in the bank!

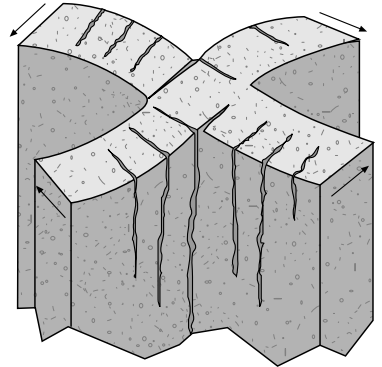
Consider the many benefits of mechanical splicing, cost over time is a lot less than expected.

- One of the fastest methods of splicing rebar
- Self centering and self aligning
- Helps eliminate construction delays due to rebar congestion challenges
- Helps accelerate construction schedules
- Enhances job site safety

Your Choice of LENTON Mechanical Splices Will

Provides Continuity in Quality and Strength

LENTON taper threaded couplers are manufactured from high strength, high quality steel. All ERICO design and manufacturing facilities are ISOSM 9001-2000 registered.



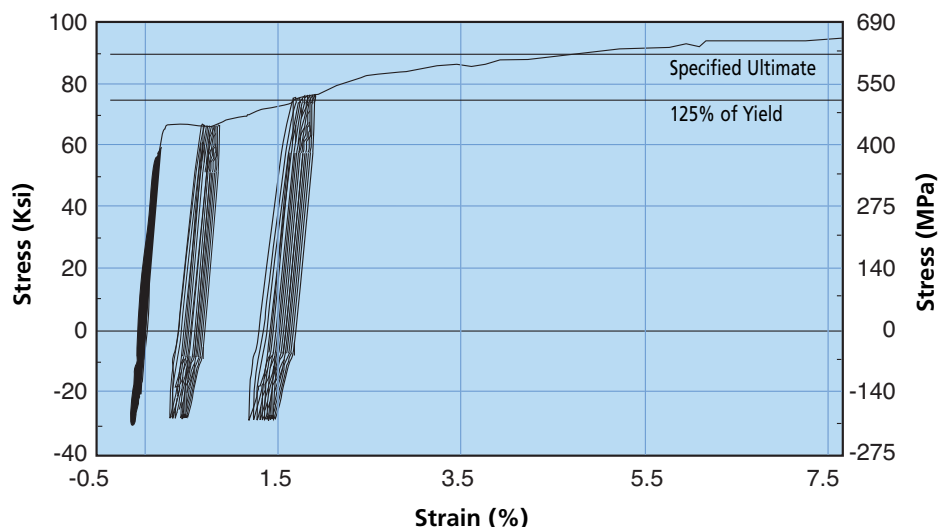
Withstands the Test of Time

Seismic Considerations

Lap splices may pull apart during seismic loads. LENTON couplers offer more strength than lap splices during seismic, man-made blasts or other natural events as their performance is independent of surrounding concrete. LENTON couplers exceed ACI®/UBC®/ICC® Type 1 & Type 2 requirements.

LENTON splices provide you with the ability to design and build concrete structures that meet or exceed today's stringent construction codes and federal regulations regarding seismic frame construction. LENTON couplers are superior to other current methods of splicing in withstanding seismic, man-made blasts and other natural events by providing reinforcing splices for rebar.

Test Conducted to ICC AC 133 Performed on Typical U.S. Rebar



LENTON provides superior performance in cyclic reversal applications.

*Visit www.erico.com for a copy of ICC-ES ER-3967.

Withstand the Test of Time

Provides Continuity in Project Economics

LENTON reduces the amount of additional rebar that is required in a lap system. The system can be installed in a matter of seconds, with no special skills or bulky equipment required. Construction schedules can be accelerated to achieve optimum costs. The benefit-to-cost ratio using the LENTON system is often superior to lap splicing.

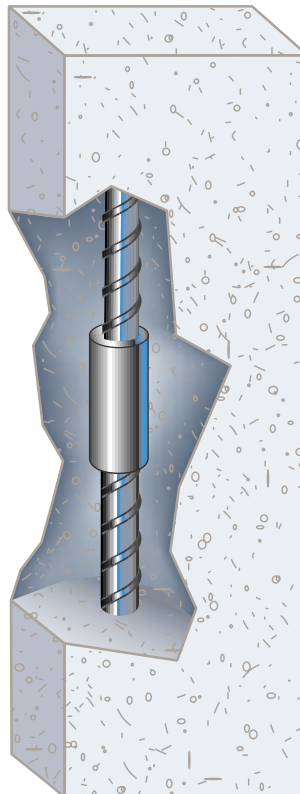
Corrosion Considerations

Corrosion increases the size of the rebar causing the concrete cover to spall and crack. As lap splices depend on the "bond" between concrete and steel for strength, concrete degradation caused by corrosion results in lap splice failure. With LENTON couplers, structural integrity is maintained even with the loss of the concrete cover because mechanical couplers perform similar to a continuous piece of rebar.



Lap splices transfer their load through the concrete and will fail as concrete cover degrades.

LENTON mechanical couplers perform similar to a continuous length of rebar regardless of concrete condition.

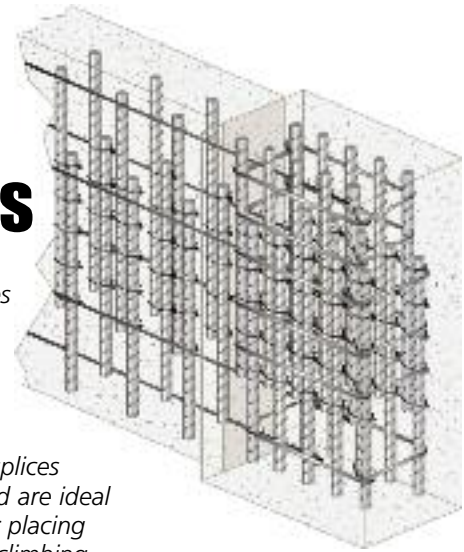


LENTON® Taper Threaded Mechanical Rebar Splicing System Provides:

- *A better way to design and build*
- *Continuity and structural integrity*
- *Compliance with international design codes*
- *Ease of installation*
- *Economy of design*
- *Many economic advantages*
- *Reduced shipping costs over other methods of splicing or anchoring*
- *Exceed Type 1 & Type 2 splice requirements*

Taper Threaded Mechanical Splicing System Applications

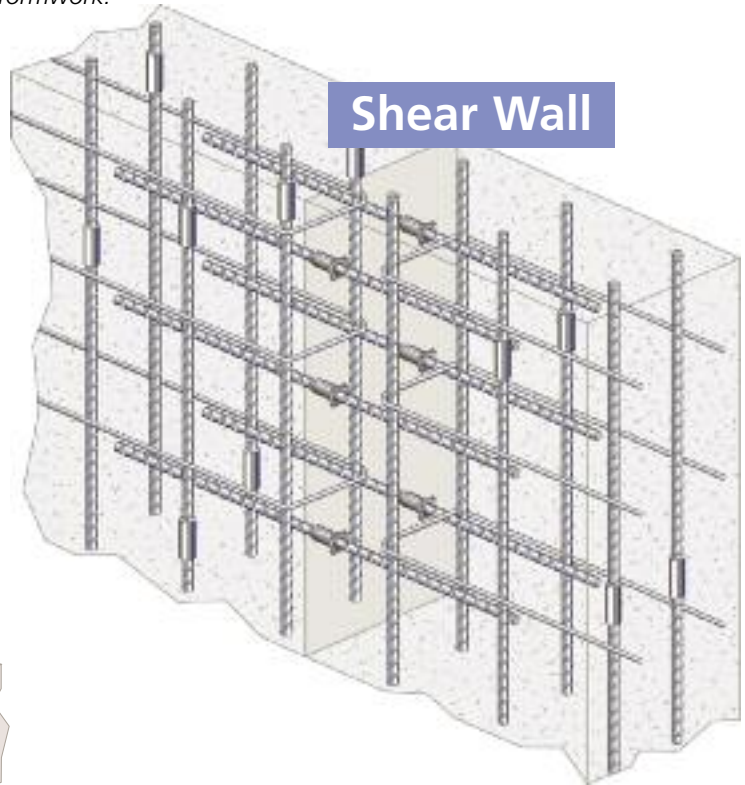
Lap splicing requires more rebar.



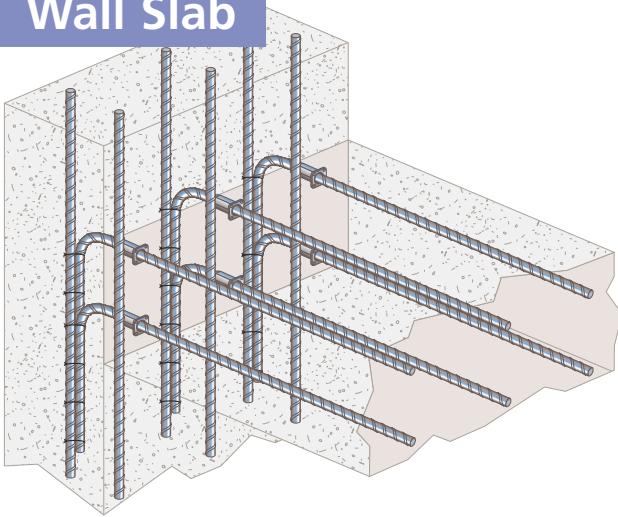
LENTON® mechanical splices reduce congestion, and are ideal for fast and easy rebar placing when using sliding or climbing formwork.



Shear Wall



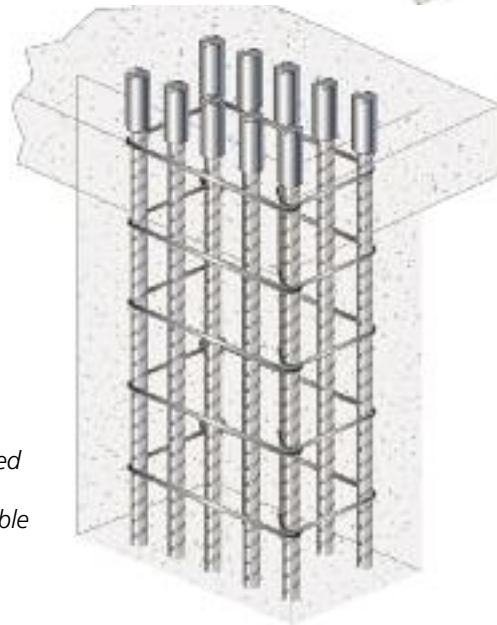
Wall Slab



LENTON® FORM SAVERS for wall/slab or wall/beam connections eliminate the need to penetrate the formwork. Indispensable when using sliding or climbing formwork.

Future Extension

LENTON Couplers are ideal for future extensions. All couplers are supplied with thread-protective plastic caps, which can be removed to expose the coupler when construction recommences. Heavy duty steel caps are available on request.



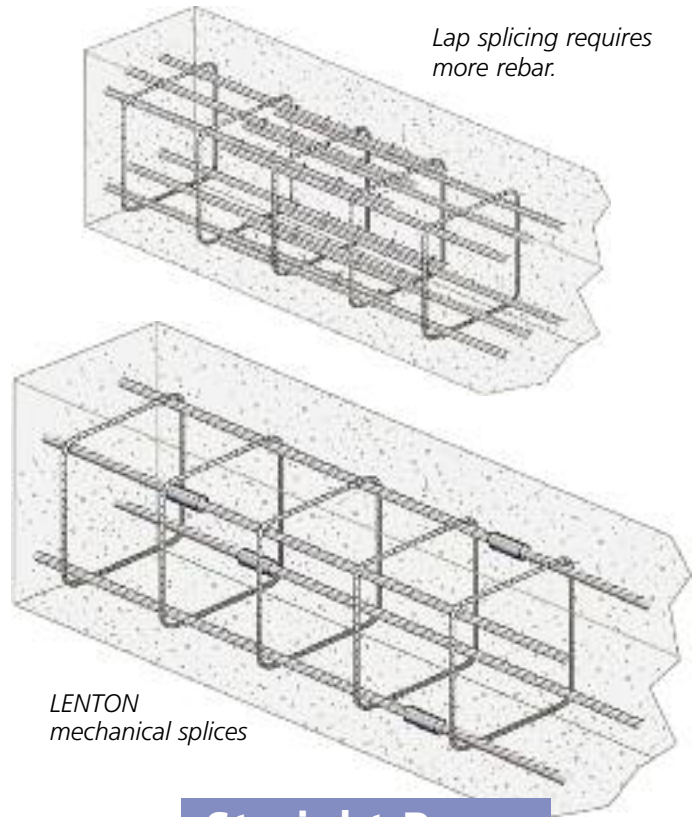
Column



LENTON® mechanical splices



Lap splicing inhibits concrete consolidation

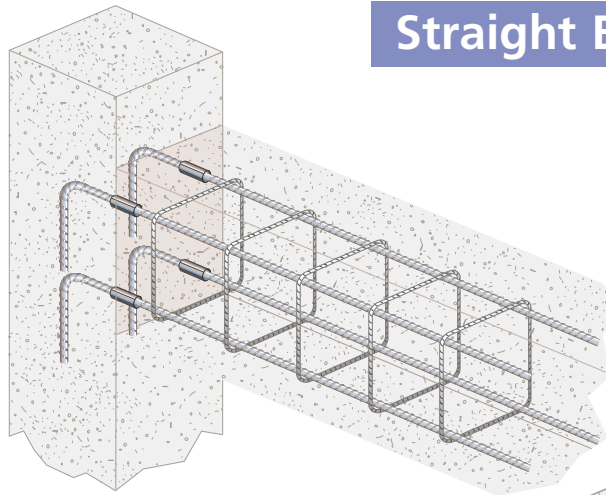


Lap splicing requires more rebar.

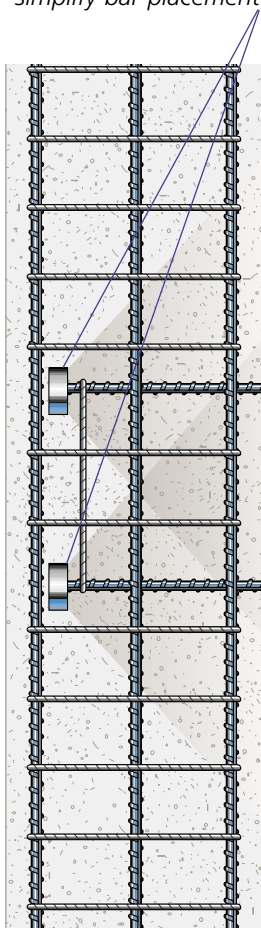
LENTON mechanical splices

Beam/Column

LENTON® TERMINATOR is ideal for rebar anchorage applications to eliminate hooked rebar, reduce congestion and simplify bar placement.



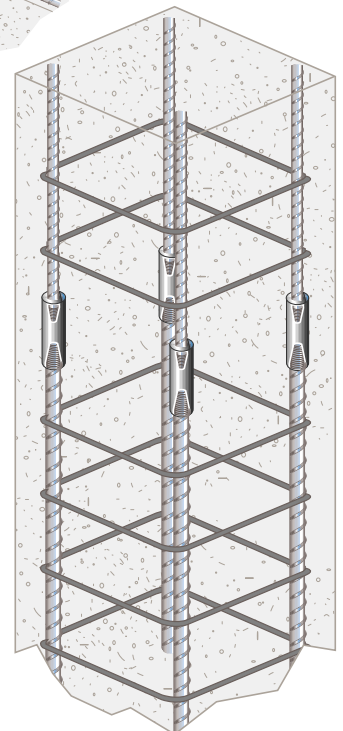
Straight Beam



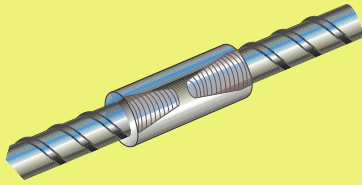
LENTON A type couplers

Transition Coupler

LENTON Transition Couplers are designed to splice different diameter bars.



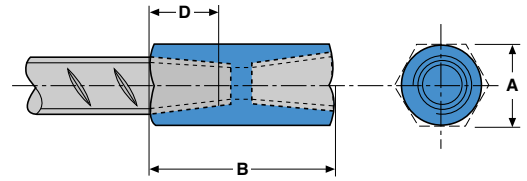
LENTON® Standard Couplers



LENTON standard couplers are designed to splice the same diameter bars where one bar can be rotated and the bar is not restricted in its axial direction.

A = diameter
B = length of coupler bar
D = bar engagement

Meets international standards, including BS8110, DIN1045, NFA-35-020, ACI®318



LENTON Standard Couplers - A12

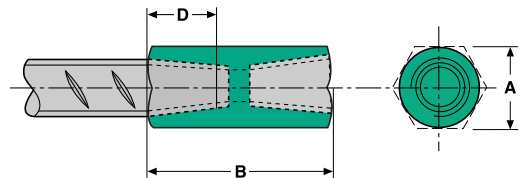
Standard in Europe, Asia and Australia**

| Rebar Size Designation Metric (mm) | Part No. | "A" mm | "B" mm | "D" mm | Weight kg |
|------------------------------------|-----------|--------|--------|--------|-----------|
| 10 | EL10A12N | 17* | 49 | 18 | 0.07 |
| 12 | EL12A12N | 17* | 50 | 19 | 0.06 |
| 14 | EL14A12N | 22* | 56 | 21 | 0.13 |
| 16 | EL16A12N | 22* | 61 | 24 | 0.13 |
| 18 | EL18A12N | 27* | 72 | 29 | 0.25 |
| 20 | EL20A12N | 27* | 87 | 35 | 0.27 |
| 22 | EL22A12N | 30* | 91 | 37 | 0.35 |
| 25 | EL25A12N | 35 | 97 | 40 | 0.44 |
| 28 | EL28A12N | 40 | 101 | 42 | 0.61 |
| 30 | EL30A12N | 40 | 121 | 52 | 0.69 |
| 32 | EL32A12N | 45 | 108 | 45 | 0.79 |
| 34 | EL34A12N | 45 | 128 | 55 | 0.89 |
| 36 | EL36A12N | 50 | 121 | 52 | 1.08 |
| 38 | EL38A12N | 55 | 124 | 53 | 1.41 |
| 40 | EL40A12N | 55 | 131 | 57 | 1.40 |
| 43 | EL43TA12N | 60 | 158 | 66 | 2.07 |
| 50 | EL50TA12N | 70 | 166 | 70 | 2.91 |
| 57 | EL57TA12N | 80 | 192 | 83 | 4.45 |

* Use hex material (measured across the flats), others use round material.

** Available in select regions in U.S.

Meets BS8110, UBC®, IBC®, AS3600, BRL-0504 and ACI318



LENTON Standard Couplers - A2

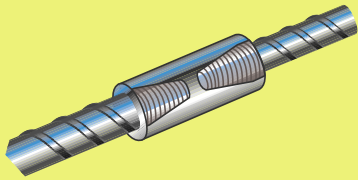
Standard in the Americas, the Middle East, Africa and Asia

| Inch lb | Rebar Size Designation | | | Part No. | "A" | | "B" | | "D" | | Weight | |
|---------|------------------------|----------|-------------|----------|--------|----|---------|-----|---------|----|--------|------|
| | Metric | Canadian | Soft Metric | | in | mm | in | mm | in | mm | lb | kg |
| 4 | 12 mm | 10M | 13 | EL12A2* | 11/16 | 17 | 1-5/8 | 41 | 9/16 | 14 | 0.1 | 0.05 |
| 5 | 16 mm | 15M | 16 | EL16A2* | 7/8 | 22 | 2-3/16 | 56 | 7/8 | 22 | 0.3 | 0.14 |
| 6 | 20 mm | 20M | 19 | EL20A2* | 1-1/16 | 27 | 2-13/16 | 71 | 1-1/8 | 29 | 0.5 | 0.23 |
| 7 | 22 mm | - | 22 | EL22A2* | 1-3/16 | 30 | 3-5/32 | 80 | 1-1/4 | 32 | 0.7 | 0.32 |
| 8 | 25 mm | 25M | 25 | EL25A2 | 1-3/8 | 35 | 3-11/32 | 85 | 1-3/8 | 35 | 0.9 | 0.41 |
| 9 | 28 mm | 30M | 29 | EL28A2 | 1-1/2 | 38 | 3-19/32 | 91 | 1-1/2 | 38 | 1.1 | 0.50 |
| 10 | 32 mm | - | 32 | EL32A2 | 1-3/4 | 44 | 3-25/32 | 96 | 1-9/16 | 40 | 1.5 | 0.68 |
| 11 | 36 mm | 35M | 36 | EL36A2 | 1-7/8 | 48 | 3-31/32 | 101 | 1-11/16 | 43 | 1.7 | 0.77 |
| - | 40 mm | - | - | EL40A2 | 2-3/16 | 52 | 4-15/16 | 125 | 2-3/16 | 56 | 2.4 | 1.07 |
| 14 | 43 mm | 45M | 43 | EL43TA2 | 2-1/4 | 57 | 5-1/4 | 133 | 2-3/16 | 56 | 3.3 | 1.50 |
| - | 50 mm | - | - | EL50TA2 | 2-9/16 | 64 | 6-13/32 | 163 | 2-3/4 | 70 | 4.4 | 2.00 |
| 18 | 57 mm | 55M | 57 | EL57TA2 | 3 | 76 | 6-15/32 | 164 | 2-13/16 | 71 | 7.3 | 3.31 |

* Use hex material (measured across the flats), others use round material.

Bar dimensions and weights listed may vary by region. Coupler sizes not shown on these pages are available by special order. Contact your ERICO representative for more information on special sizes. Article numbers used in Europe, Middle East, Africa and Asia exclusively.

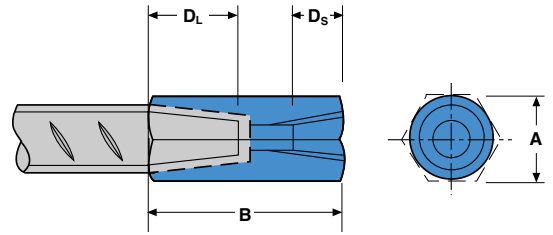
LENTON® Transition Couplers



LENTON transition couplers are designed to splice different diameter bars where one bar can be rotated and the bar is not restricted in its axial direction.

- A** = coupler diameter
- B** = length of coupler bar
- D_L** = large bar engagement
- D_S** = small bar engagement

Meets international standards, including BS8110, DIN1045, NFA-35-020, ACI®318



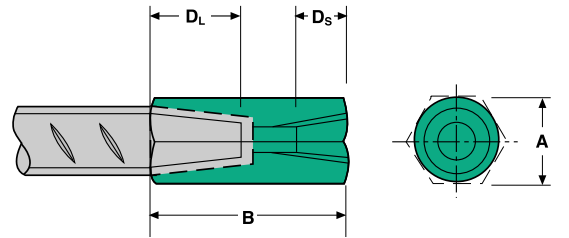
LENTON Transition Couplers - A12

Standard in Europe, the Middle East, Africa, Asia and Australia

| Rebar Size Designation mm | Part No. | "A" mm | "B" mm | "D _L " Large Bar mm | "D _S " Small Bar mm | Weight kg |
|---------------------------|-------------|--------|--------|--------------------------------|--------------------------------|-----------|
| 16 - 12 | EL1612A12N | 22* | 61 | 24 | 19 | 0.14 |
| 16 - 14 | EL1614A12N | 22* | 64 | 24 | 21 | 0.14 |
| 20 - 16 | EL2016A12N | 27* | 80 | 35 | 24 | 0.27 |
| 22 - 20 | EL2220A12N | 30* | 95 | 37 | 35 | 0.38 |
| 25 - 20 | EL2520A12N | 35 | 98 | 40 | 35 | 0.50 |
| 25 - 22 | EL2522A12N | 35 | 100 | 40 | 37 | 0.49 |
| 28 - 20 | EL2820A12N | 40 | 101 | 42 | 35 | 0.69 |
| 28 - 25 | EL2825A12N | 40 | 105 | 42 | 40 | 0.67 |
| 32 - 25 | EL3225A12N | 45 | 109 | 45 | 40 | 0.91 |
| 32 - 28 | EL3228A12N | 45 | 111 | 45 | 42 | 0.88 |
| 36 - 32 | EL3632A12N | 50 | 120 | 52 | 45 | 1.15 |
| 40 - 32 | EL4032A12N | 55 | 126 | 57 | 45 | 1.50 |
| 43 - 40 | EL43T40A12N | 60 | 152 | 66 | 57 | 2.07 |
| 50 - 32 | EL50T32A12N | 70 | 147 | 70 | 45 | 3.00 |

*Use hex material (measured across the flats), others use round material.

Meets BS8110, UBC®, IBC®, AS3600, and ACI318



LENTON Transition Couplers - A2

Standard in the Americas, Asia and Australia

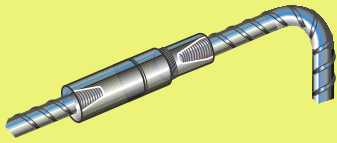
| Inch lb | Rebar Size Designation | | | Part No. | "A" | | "B" | | "D _L " Large Bar | | "D _S " Small Bar | | Weight | |
|---------|------------------------|----------|-------------|-----------|--------|-----|---------|-----|-----------------------------|----|-----------------------------|----|--------|------|
| | Metric | Canadian | Soft Metric | | in | mm | in | mm | in | mm | in | mm | lb | kg |
| 5/4 | 16/12 | 15M/10M | 16/13 | EL1612A2 | 7/8 | 22* | 2-5/16 | 59 | 7/8 | 22 | 9/16 | 14 | 0.3 | 0.15 |
| 6/5 | 20/16 | 20M/15M | 19/16 | EL2016A2 | 1-1/16 | 27* | 3 | 76 | 1-1/8 | 29 | 7/8 | 22 | 0.7 | 0.31 |
| 7/6 | 22/20 | - | 22/19 | EL2220A2 | 1-3/16 | 30* | 3-13/16 | 97 | 1-1/4 | 32 | 1-1/8 | 29 | 0.8 | 0.36 |
| 8/7 | 25/22 | - | 25/22 | EL2522A2 | 1-3/8 | 35 | 3-11/16 | 94 | 1-3/8 | 35 | 1-1/4 | 32 | 1.0 | 0.45 |
| 9/8 | 28/25 | 30M/25M | 29/25 | EL2825A2 | 1-1/2 | 38 | 3-29/32 | 99 | 1-1/2 | 38 | 1-3/8 | 35 | 1.3 | 0.59 |
| 10/9 | 32/28 | - | 32/29 | EL3228A2 | 1-3/4 | 44 | 4-1/8 | 105 | 1-9/16 | 40 | 1-1/2 | 38 | 1.8 | 0.82 |
| 11/10 | 36/32 | - | 36/32 | EL3632A2 | 1-7/8 | 48 | 4-5/16 | 110 | 1-11/16 | 43 | 1-9/16 | 40 | 2.1 | 0.95 |
| 14/11 | 43/36 | 45M/35M | 43/36 | EL43T36A2 | 2-1/4 | 57 | 5-3/32 | 129 | 2-3/16 | 56 | 1-11/16 | 43 | 3.6 | 1.63 |
| 18/11 | 57/36 | 55M/35M | 57/36 | EL57T36A2 | 3 | 76 | 5-11/32 | 136 | 2-13/16 | 71 | 1-11/16 | 43 | 7.5 | 3.40 |
| 18/14 | 57/43 | 55M/45M | 57/43 | EL57T43A2 | 3 | 76 | 6-5/8 | 168 | 2-13/16 | 71 | 2-1/8 | 56 | 8.2 | 3.72 |

*Use hex material (measured across the flats), others use round material.

All items listed above are domestic steel, other non domestic steel may be available in USA. Contact ERICO for pricing and availability.

Bar dimensions and weights listed may vary by region. Coupler sizes not shown on these pages are available by special order. Contact your ERICO representative for more information on special sizes. Article numbers used in Europe, Middle East, Africa and Asia exclusively.

LENTON® Position Couplers

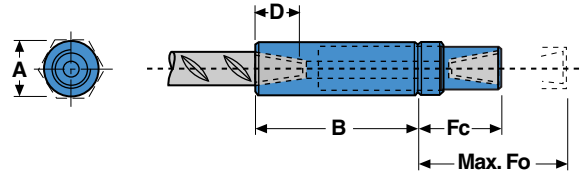


P8 and P13 style couplers are designed to quickly splice two curved, bent, or straight bars, when neither bar can be rotated, and where the ongoing bar is restricted in its axial direction. Typical applications for these couplers are for the splicing of prefabricated cages.

The P13 position coupler can be supplied in two pieces for application against form work. The female parallel thread is corrosion protected with a plastic screw-in protection cap.

- A** = diameter
- B** = length of coupler body
- D** = bar engagement
- Fc** = connector and jam nut (closed position) length
- Max. Fo** = connector and jam nut (fully open position) length

Meets international standards, including BS8110, DIN1045, NFA-35-020, ACI®318



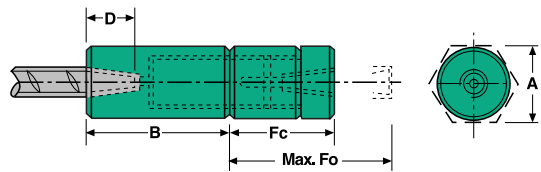
LENTON Position Couplers - P13L

Standard in Europe, the Middle East, Africa, Asia and Australia

| Rebar Size Designation mm | Part No. | "A" mm | "B" mm | "Fc" mm | Max. Fo | "D" mm | Weight kg |
|---------------------------|------------|--------|--------|---------|---------|--------|-----------|
| 10 | EL10P13LN | 25 | 70 | 50 | 85 | 18 | 0.36 |
| 12 | EL12P13LN | 25 | 75 | 49 | 85 | 19 | 0.36 |
| 14 | EL14P13LN | 25 | 82 | 51 | 90 | 21 | 0.37 |
| 16 | EL16P13LN | 30 | 88 | 56 | 97 | 24 | 0.59 |
| 18 | EL18P13LN | 35 | 100 | 61 | 107 | 29 | 0.85 |
| 20 | EL20P13LN | 35 | 125 | 73 | 135 | 35 | 1.09 |
| 22 | EL22P13LN | 40 | 132 | 77 | 141 | 37 | 1.55 |
| 25 | EL25P13LN | 45 | 140 | 80 | 146 | 40 | 1.94 |
| 28 | EL28P13LN | 50 | 147 | 83 | 151 | 42 | 2.53 |
| 30 | EL30P13LN | 55 | 169 | 93 | 171 | 52 | 3.35 |
| 32 | EL32P13LN | 60 | 156 | 93 | 164 | 45 | 3.96 |
| 34 | EL34P13LN | 60 | 177 | 103 | 184 | 55 | 4.28 |
| 36 | EL36P13LN | 65 | 172 | 99 | 177 | 52 | 5.01 |
| 38 | EL38P13LN | 70 | 174 | 103 | 183 | 53 | 6.05 |
| 40 | EL40P13LN | 70 | 184 | 106 | 190 | 57 | 6.18 |
| 43 | EL43TP13LN | 75 | 213 | 127 | 219 | 66 | 8.24 |
| 50 | EL50TP13LN | 90 | 224 | 135 | 230 | 70 | 11.71 |
| 57 | EL57TP13LN | 100 | 256 | 148 | 257 | 83 | 17.11 |

*Use hex material (measured across the flats), others use round material.

Meets BS8110, UBC®, IBC®, AS3600 and ACI318



LENTON Position Couplers - P8*

Design Standard in America, available as special order

| Inch lb | Rebar Size Designation | | | Part No. | "A" | | "B" | | "Fc" | | Max. Fo | | "D" | | Weight | |
|------------|------------------------|----------|-------------|----------|---------|-----|---------|-----|---------|-----|---------|-----|---------|----|--------|-------|
| | Metric | Canadian | Soft Metric | | in | mm | in | mm | in | mm | in | mm | in | mm | lb | kg |
| 5 | 16 mm | 15M | 16 | EL16P8 | 1-13/16 | 46 | 3-17/32 | 89 | 1-19/32 | 40 | 3-5/32 | 81 | 7/8 | 22 | 1.1 | 0.50 |
| 6 | 20 mm | 20M | 19 | EL20P8 | 1-13/16 | 46 | 4-1/4 | 108 | 1-19/32 | 40 | 3-9/16 | 91 | 1-1/8 | 29 | 1.9 | 0.86 |
| 7 | 22 mm | - | 22 | EL22P8 | 1-13/16 | 46 | 4-23/32 | 120 | 1-19/32 | 40 | 3-3/4 | 95 | 1-1/4 | 32 | 2.7 | 1.21 |
| 8 | 25 mm | 25M | 25 | EL25P8 | 1-13/16 | 46 | 5-1/8 | 130 | 1-19/32 | 40 | 3-27/32 | 97 | 1-3/8 | 35 | 2.9 | 1.31 |
| 9 | 28 mm | 30M | 29 | EL28P8 | 2-1/2 | 64 | 5-9/32 | 134 | 1-19/32 | 40 | 3-31/32 | 101 | 1-1/2 | 38 | 3.8 | 1.74 |
| 10 | 32 mm | - | 32 | EL32P8 | 2-1/2 | 64 | 5-23/32 | 145 | 1-19/32 | 40 | 4-1/16 | 103 | 1-9/16 | 40 | 5.3 | 2.38 |
| 11 | 36 mm | 35M | 36 | EL36P8 | 2-1/2 | 64 | 6-7/32 | 158 | 1-19/32 | 40 | 4-5/32 | 106 | 1-11/16 | 43 | 8.1 | 3.69 |
| 14 | 43 mm | 45M | 43 | EL43TP8 | 3 | 76 | 7-25/32 | 198 | 3-29/32 | 99 | 7-9/32 | 185 | 2-3/16 | 56 | 18.0 | 8.18 |
| 18 | 57 mm | 55M | 57 | EL57TP8 | 4 | 102 | 9-17/32 | 242 | 4-7/16 | 113 | 8-1/2 | 215 | 2-13/16 | 71 | 37.9 | 17.20 |

*Contact ERICO for lead time and availability.

Bar dimensions and weights listed may vary by region. Coupler sizes not shown on these pages are available by special order. Contact your ERICO representative for more information on special sizes. Article numbers used in Europe, Middle East, Africa and Asia exclusively.

LENTON® Position Couplers

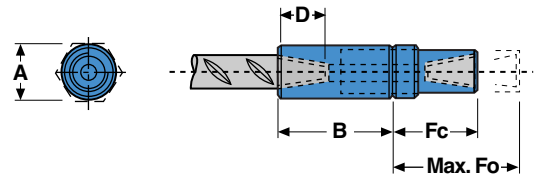


The P9 and P14 style coupler are designed to splice two curved, bent or straight bars, when neither bar can be rotated and where the on-going bar is free to move in its axial direction. Typical applications for these couplers are for the splicing of pile cages.

The P14 Position coupler can be supplied in two pieces for application against form work. The female parallel thread is corrosion protected and is provided with a plastic screw-in protection cap.

- A** = diameter
- B** = length of coupler body
- D** = bar engagement
- Fc** = connector and jam nut (closed position) length
- Max. Fo** = connector and jam nut (fully open position) length

Meets international standards, including BS8110, DIN1045, NFA-35-020, ACI®318

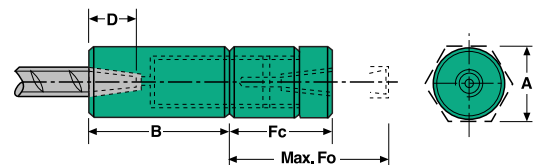


LENTON Position Couplers - P14L

Standard in Europe, the Middle East, Africa and Australia

| Rebar Size Designation mm | Part No. | "A" mm | "B" mm | "Fc" mm | Max. Fo | "D" mm | Weight kg |
|---------------------------|------------|--------|--------|---------|---------|--------|-----------|
| 10 | EL10P14LN | 25 | 42 | 52 | 59 | 18 | 0.27 |
| 12 | EL12P14LN | 25 | 46 | 51 | 58 | 19 | 0.26 |
| 14 | EL14P14LN | 25 | 51 | 54 | 60 | 21 | 0.26 |
| 16 | EL16P14LN | 30 | 54 | 58 | 64 | 24 | 0.44 |
| 18 | EL18P14LN | 35 | 61 | 63 | 70 | 29 | 0.58 |
| 20 | EL20P14LN | 35 | 76 | 76 | 88 | 35 | 0.76 |
| 22 | EL22P14LN | 40 | 80 | 80 | 92 | 37 | 1.09 |
| 25 | EL25P14LN | 45 | 86 | 83 | 94 | 40 | 1.32 |
| 28 | EL28P14LN | 50 | 90 | 85 | 97 | 42 | 1.72 |
| 30 | EL30P14LN | 55 | 102 | 96 | 107 | 52 | 2.19 |
| 32 | EL32P14LN | 60 | 96 | 96 | 107 | 45 | 2.72 |
| 34 | EL34P14LN | 60 | 107 | 105 | 117 | 55 | 2.83 |
| 36 | EL36P14LN | 65 | 105 | 102 | 113 | 52 | 3.37 |
| 38 | EL38P14LN | 70 | 106 | 106 | 117 | 53 | 4.12 |
| 40 | EL40P14LN | 70 | 112 | 109 | 120 | 57 | 4.14 |
| 43 | EL43TP14LN | 75 | 142 | 132 | 152 | 66 | 5.99 |
| 50 | EL50TP14LN | 90 | 148 | 139 | 160 | 70 | 8.52 |
| 57 | EL57TP14LN | 100 | 167 | 153 | 173 | 83 | 12.05 |

Meets BS8110, UBC®, IBC®, AS3600 and ACI318



LENTON Position Couplers - P9

Standard in the Americas

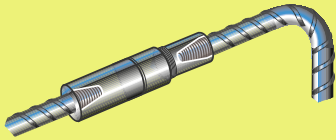
| Inch lb | Rebar Size Designation | | | Part No. | "A" | | "B" | | "Fc" | | Max. Fo | | "D" | | Weight | |
|---------|------------------------|----------|-------------|----------|---------|----|---------|-----|---------|-----|---------|-----|---------|----|--------|-------|
| | Metric | Canadian | Soft Metric | | in | mm | in | mm | in | mm | in | mm | in | mm | lb | kg |
| 4 | 12 mm | 10M | 13 | EL12P14L | 1 | 25 | 1-13/16 | 46 | 1-5/8 | 42 | 2-1/16 | 53 | 3/4 | 19 | 0.6 | 0.26 |
| 5 | 16 mm | 15M | 16 | EL16P14L | 1-3/8 | 35 | 2-1/8 | 54 | 1-7/8 | 48 | 2-5/16 | 59 | 15/16 | 24 | 1.0 | 0.44 |
| 6 | 20 mm | 20M | 19 | EL20P9 | 1-13/16 | 46 | 2-3/4 | 70 | 1-5/8 | 41 | 2-1/8 | 54 | 1-1/8 | 29 | 2.7 | 1.22 |
| 7 | 22 mm | — | 22 | EL22P9 | 1-13/16 | 46 | 3-1/16 | 78 | 1-5/8 | 41 | 2-1/8 | 54 | 1-1/4 | 32 | 2.7 | 1.22 |
| 8 | 25 mm | 25M | 25 | EL25P9 | 1-13/16 | 46 | 3-3/8 | 86 | 1-5/8 | 41 | 2-1/8 | 54 | 1-3/8 | 35 | 2.8 | 1.27 |
| 9 | 28 mm | 30M | 29 | EL28P9 | 2-1/2 | 64 | 3-9/16 | 90 | 1-5/8 | 41 | 2-1/8 | 54 | 1-1/2 | 38 | 6.0 | 2.73 |
| 10 | 32 mm | — | 32 | EL32P9 | 2-1/2 | 64 | 3-13/16 | 97 | 1-5/8 | 41 | 2-1/8 | 54 | 1-9/16 | 40 | 5.9 | 2.68 |
| 11 | 36 mm | 35M | 36 | EL36P9 | 2-1/2 | 64 | 4-3/16 | 106 | 1-5/8 | 41 | 2-1/8 | 54 | 1-11/16 | 43 | 6.0 | 2.73 |
| 14 | 43 mm | 45M | 43 | EL43TP9 | 3 | 76 | 5 | 127 | 3-13/16 | 97 | 4-5/8 | 117 | 2-3/16 | 56 | 12.4 | 5.64 |
| 18 | 57 mm | 55M | 57 | EL57TP9 | 4 | 95 | 6-1/8 | 156 | 4-3/8 | 111 | 5-3/16 | 132 | 2-13/16 | 71 | 25.0 | 11.36 |

*Use hex material (measured across the flats), others use round material.

All items listed above are domestic steel, other non domestic steel may be available in USA. Contact ERICO for pricing and availability.

Bar dimensions and weights listed may vary by region. Coupler sizes not shown on these pages are available by special order. Contact your ERICO representative for more information on special sizes. Article numbers used in Europe, Middle East, Africa and Asia exclusively.

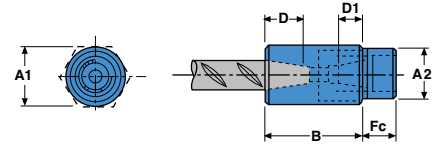
LENTON® Position & Bolt Couplers



LENTON P15 position couplers are designed to quickly splice column sections or precision coupling of elements with multiple bars joined over a short span, such as prefabricated elements, and the closing of small temporary openings. Contact your local ERICO representative for more information.

- A** = coupler diameter
- A1** = diameter
- A2** = diameter of connector end
- B** = length of coupler body
- C** = maximal bolt engagement
- D** = bar engagement
- D1** = bar engagement
- E** = full size metric thread
- F** = minimal bolt engagement
- Fc** = connector and jam nut

Meets international standards, including BS8110, DIN1045, NFA-35-020, ACI®318.



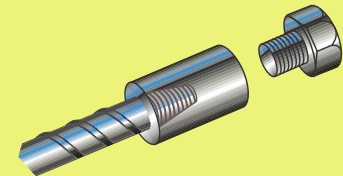
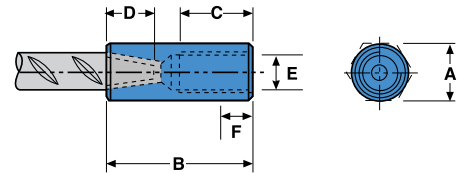
LENTON Position Couplers - P15

Standard in Europe, the Middle East and Africa

| Rebar Size Designation mm | Part No. | Art. No. | "A1" mm | "A2" mm | "B" mm | "Fc" mm | "D" mm | "D1" mm | Weight Kg |
|---------------------------|----------|----------|---------|---------|--------|---------|--------|---------|-----------|
| 10 | EL10P15 | 150540 | 27* | 27* | 40 | 19 | 18 | 11 | 0.31 |
| 12 | EL12P15 | 150550 | 33 | 27* | 42 | 19 | 19 | 13 | 0.36 |
| 14 | EL14P15 | 150560 | 33 | 33 | 47 | 19 | 21 | 15 | 0.42 |
| 16 | EL16P15 | 150570 | 37 | 33 | 52 | 19 | 24 | 17 | 0.51 |
| 18 | EL18P15 | 150580 | 37 | 33 | 60 | 19 | 29 | 20 | 0.49 |
| 20 | EL20P15 | 150590 | 41 | 37 | 69 | 24 | 35 | 22 | 0.72 |
| 22 | EL22P15 | 150600 | 46 | 42 | 75 | 24 | 37 | 24 | 0.98 |
| 25 | EL25P15 | 150610 | 52 | 42 | 81 | 24 | 40 | 29 | 1.26 |
| 28 | EL28P15 | 150620 | 58 | 52 | 86 | 24 | 42 | 32 | 1.69 |
| 30 | EL30P15 | 150630 | 58 | 52 | 100 | 24 | 52 | 36 | 1.92 |
| 32 | EL32P15 | 150640 | 64 | 52 | 91 | 24 | 45 | 32 | 2.08 |
| 34 | EL34P15 | 150650 | 64 | 58 | 106 | 24 | 55 | 37 | 2.43 |
| 36 | EL36P15 | 150660 | 75 | 58 | 102 | 24 | 52 | 38 | 3.16 |
| 38 | EL38P15 | 150670 | 75 | 64 | 105 | 24 | 53 | 38 | 3.16 |
| 40 | EL40P15 | 150680 | 75 | 64 | 113 | 24 | 57 | 42 | 3.40 |
| 43 | EL43TP15 | 150690 | 80 | 75 | 127 | 24 | 66 | 44 | 4.43 |
| 50 | EL50TP15 | 150700 | 95 | 95 | 140 | 24 | 70 | 52 | 6.85 |
| 57 | EL57TP15 | 150710 | 101 | 95 | 163 | 24 | 83 | 62 | 8.48 |

*Use hex material (measured across the flats), others use round material.

Meets international standards, including BS8110, DIN1045, NFA-35-020, ACI318.



LENTON bolt couplers provide a full strength joint between a reinforcing bar and a standard metric bolt. The coupler may be used for load-carrying steel structures bolted to concrete foundations, columns or walls, such as pylon bases, fixing crane rails, and fixings for heavy pipe work and walkways.

These couplers are machined from non-weldable grades of material, but can be tack welded. S13 can make a convenient transition from reinforcing bar to metric threaded stud, maintaining the full strength of the bar. Transition is useful when forming long tie-bars, such as in formwork or pile-planks, against internal pressure and to form a restraint anchor for ground anchors.

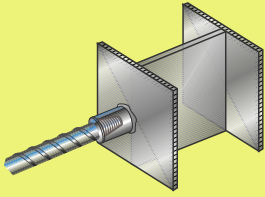
LENTON Bolt Couplers - S13

Standard in Europe, the Middle East, Africa, Asia and Australia

| Rebar Size Designation mm | Part No. | "A" mm | "B" mm | "C" mm | "D" mm | "E" mm | "F" mm | Weight kg |
|---------------------------|-----------|--------|--------|--------|--------|--------|--------|-----------|
| 10 | EL10S13N | 17* | 53 | 28 | 18 | M12 | 14 | 0.07 |
| 12 | EL12S13N | 22* | 58 | 33 | 19 | M16 | 19 | 0.12 |
| 14 | EL14S13N | 22* | 63 | 35 | 21 | M18 | 21 | 0.21 |
| 16 | EL16S13N | 27* | 68 | 37 | 24 | M20 | 23 | 0.24 |
| 18 | EL18S13N | 35 | 75 | 39 | 29 | M22 | 25 | 0.28 |
| 20 | EL20S13N | 35 | 98 | 55 | 35 | M24 | 27 | 0.44 |
| 22 | EL22S13N | 40 | 104 | 58 | 37 | M27 | 31 | 0.87 |
| 25 | EL25S13N | 45 | 110 | 61 | 40 | M30 | 33 | 0.81 |
| 28 | EL28S13N | 50 | 115 | 64 | 42 | M33 | 37 | 0.93 |
| 30 | EL30S13N | 55 | 128 | 67 | 52 | M36 | 40 | 1.16 |
| 32 | EL32S13N | 55 | 125 | 70 | 45 | M39 | 43 | 1.51 |
| 34 | EL34S13N | 55 | 135 | 70 | 55 | M39 | 43 | 1.58 |
| 36 | EL36S13N | 65 | 134 | 73 | 52 | M42 | 46 | 2.05 |
| 38 | EL38S13N | 65 | 139 | 77 | 53 | M45 | 49 | 1.94 |
| 40 | EL40S13N | 65 | 143 | 77 | 57 | M45 | 49 | 1.93 |
| 43 | EL43TS13N | 75 | 163 | 84 | 66 | M52 | 56 | 3.51 |
| 50 | EL50TS13N | 85 | 171 | 88 | 70 | M56 | 60 | 5.08 |
| 57 | EL57TS13N | 95 | 192 | 96 | 83 | M64 | 68 | 6.33 |

*Use hex material (measured across the flats), others use round material. **NOTE: S13 is supplied without bolt.**

LENTON® Weldable Couplers



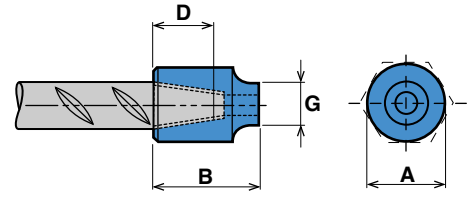
LENTON weldable couplers provide a quick and easy solution for connecting reinforcing bar to structural steel sections or plates. Similar to the standard coupler, the weldable coupler is internally taper threaded on one end, with the other end prepared for welding.

These couplers are machined from weldable grades of material such as A.I.S.I. 1018, 1030, 1035 or St 52.5, depending on rebar size. The couplers are usually arc welded to the structural steel in a fabricating shop. The design of the weld, the selection of electrode, and other relevant choices depend on the chemical and physical properties of the structural steel to which the couplers are welded.

Engineers who design assemblies should adhere to all appropriate regulations.

- A** = coupler diameter
- B** = length of coupler body
- D** = bar engagement
- G** = small diameter

Meets international standards, including BS8110, DIN1045, NFA-35-020 and ACI*318.

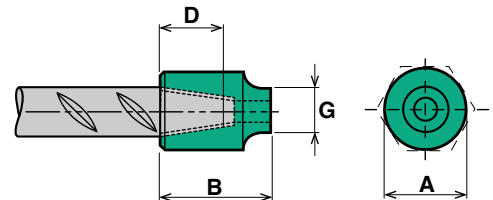


LENTON Weldable Couplers - C12

Standard in Europe, the Middle East, Africa, Asia and Australia

| Rebar Size Designation mm | Part No. | Art. No. | "A" mm | "B" mm | "D" mm | "G" mm | Weight kg |
|---------------------------|----------|----------|--------|--------|--------|--------|-----------|
| 10 | EL10C12 | 151080 | 20 | 30 | 18 | 12 | 0.06 |
| 12 | EL12C12 | 151090 | 20 | 30 | 19 | 12 | 0.05 |
| 14 | EL14C12 | 151100 | 25 | 35 | 21 | 13 | 0.09 |
| 16 | EL16C12 | 151110 | 25 | 40 | 24 | 15 | 0.09 |
| 18 | EL18C12 | 151120 | 30 | 45 | 29 | 16 | 0.16 |
| 20 | EL20C12 | 151130 | 30 | 50 | 35 | 17 | 0.17 |
| 22 | EL22C12 | 151140 | 40 | 55 | 37 | 18 | 0.35 |
| 25 | EL25C12 | 151150 | 40 | 55 | 40 | 21 | 0.32 |
| 28 | EL28C12 | 151160 | 40 | 55 | 42 | 24 | 0.29 |
| 30 | EL30C12 | 151170 | 50 | 65 | 52 | 24 | 0.60 |
| 32 | EL32C12 | 151180 | 50 | 60 | 45 | 28 | 0.52 |
| 34 | EL34C12 | 151190 | 50 | 70 | 55 | 28 | 0.60 |
| 36 | EL36C12 | 151200 | 60 | 65 | 52 | 31 | 0.83 |
| 38 | EL38C12 | 151210 | 60 | 70 | 53 | 33 | 0.89 |
| 40 | EL40C12 | 151220 | 60 | 75 | 57 | 34 | 0.92 |
| 43 | EL43TC12 | 151230 | 75 | 85 | 66 | 36 | 1.26 |
| 50 | EL50TC12 | 151240 | 75 | 90 | 70 | 43 | 1.73 |
| 57 | EL57TC12 | 151250 | 90 | 100 | 83 | 47 | 2.76 |

Meets BS8110, UBC®, IBC®, AS3600 and ACI318

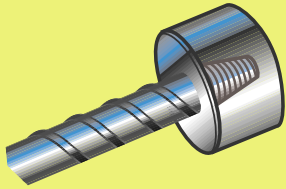


LENTON Weldable Couplers - C2/C3J

Standard in the Americas and Asia

| Inch lb | Rebar Size Designation | | Part No. | "A" | | "B" | | "D" | | "G" | | Weight | | |
|---------|------------------------|----------------------|----------|----------|---------|-----|---------|-----|---------|-----|---------|--------|-----|------|
| | Metric | Canadian Soft Metric | | in | mm | in | mm | in | mm | in | mm | lb | kg | |
| 4 | 12 mm | 10M | 13 | EL12C2 | 3/4 | 19 | 1-3/16 | 30 | 9/16 | 14 | 7/16 | 11 | 0.1 | 0.05 |
| 5 | 16 mm | 15M | 16 | EL16C2 | 1 | 25 | 1-3/8 | 35 | 7/8 | 22 | 9/16 | 14 | 0.2 | 0.09 |
| 6 | 20 mm | 20M | 19 | EL20C3J | 1-1/4 | 32 | 2-5/32 | 55 | 1-1/8 | 29 | 7/8 | 22 | 0.6 | 0.27 |
| 7 | 22 mm | - | 22 | EL22C3J | 1-1/4 | 32 | 2-13/32 | 61 | 1-1/4 | 32 | 3/4 | 19 | 0.6 | 0.27 |
| 8 | 25 mm | 25M | 25 | EL25C3J | 1-9/16 | 40 | 2-17/32 | 64 | 1-3/8 | 35 | 1 | 25 | 0.9 | 0.41 |
| 9 | 28 mm | 30M | 29 | EL28C3J | 1-9/16 | 40 | 2-11/16 | 68 | 1-1/2 | 38 | 15/16 | 24 | 0.9 | 0.41 |
| 10 | 32 mm | - | 32 | EL32C3J | 2 | 51 | 2-7/8 | 73 | 1-9/16 | 40 | 15/16 | 24 | 1.6 | 0.73 |
| 11 | 36 mm | 35M | 36 | EL36C3J | 2 | 51 | 2-31/32 | 75 | 1-11/16 | 43 | 1-1/8 | 29 | 1.6 | 0.73 |
| - | 40 mm | - | - | EL40C2 | 2-3/16 | 55 | 2-7/8 | 73 | 2-3/16 | 56 | 1-13/32 | 36 | 1.8 | 0.82 |
| 14 | 43 mm | 45M | 43 | EL43TC3J | 2-3/8 | 60 | 3-3/4 | 96 | 2-3/16 | 56 | 1-13/32 | 36 | 2.9 | 1.32 |
| - | 50 mm | - | - | EL50TC2 | 2-15/16 | 75 | 3-9/16 | 90 | 2-3/4 | 70 | 1-7/8 | 47 | 2.5 | 1.14 |
| 18 | 57 mm | 55M | 57 | EL57TC3J | 3-1/8 | 80 | 4-1/2 | 114 | 2-13/16 | 71 | 1-3/4 | 44 | 5.4 | 2.45 |

LENTON® Mechanical Anchors

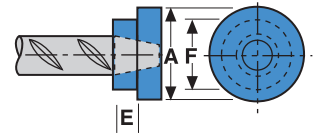
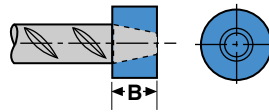


The LENTON® TERMINATOR provides an alternative to hooked rebar, or an anchor or stop nut for rebar passing through a pile plank or structural steel element. The front face of the coupler is generously designed to carry the full tension load of the rebar when the anchor is bearing against concrete or structural steel.

The A2D6 LENTON TERMINATOR (not shown) is threaded on both sides for future extension work and provides the same anchorage benefits as the D6 and D16. This coupler is available in North America only. Contact ERICO for more information.

- A** = large diameter
- B** = length of coupler body/
bar engagement
- E** = length of small step
- F** = small diameter

Meets international standards, including BS8110, DIN1045, NFA-35-020, ACI®318 and ASTM® A970.



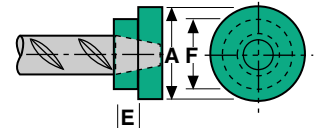
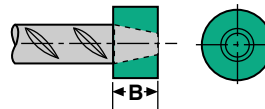
LENTON TERMINATOR - D14

Standard in the Americas*, Europe, the Middle East and Africa

| Rebar Size Designation mm | Part No. | "A" mm | "B" mm | "E" mm | "F" mm | Weight Kg |
|---------------------------|----------|--------|--------|--------|--------|-----------|
| 10 | EL10D14 | 35 | 18 | — | — | 0.13 |
| 12 | EL12D14 | 45 | 18 | — | — | 0.22 |
| 14 | EL14D14 | 45 | 21 | — | — | 0.25 |
| 16 | EL16D14 | 55 | 24 | — | — | 0.42 |
| 18 | EL18D14 | 60 | 29 | — | — | 0.61 |
| 20 | EL20D14 | 65 | 35 | — | — | 0.84 |
| 22 | EL22D14 | 70 | 37 | — | — | 1.04 |
| 25 | EL25D14 | 80 | 40 | — | — | 1.45 |
| 28 | EL28D14 | 95 | 42 | 25 | 80 | 1.76 |
| 30 | EL30D14 | 95 | 52 | 25 | 80 | 2.26 |
| 32 | EL32D14 | 105 | 45 | 25 | 80 | 2.14 |
| 34 | EL34D14 | 110 | 55 | 25 | 80 | 2.94 |
| 36 | EL36D14 | 115 | 52 | 25 | 80 | 2.84 |
| 38 | EL38D14 | 120 | 53 | 25 | 80 | 3.12 |
| 40 | EL40D14 | 130 | 58 | 26 | 58 | 3.41 |
| 43 | EL43TD14 | 150 | 67 | 34 | 61 | 4.73 |
| 50 | EL50TD14 | 160 | 71 | 33 | 77 | 6.38 |
| 57 | EL57TD14 | 190 | 84 | 41 | 80 | 9.72 |

*Available in select regions of U.S.

Meets BS8110, UBC®, IBC®, AS3600 and ACI®318 and ASTM A970.



LENTON TERMINATOR - D6

Standard in the Americas, Asia and Australia

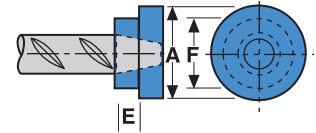
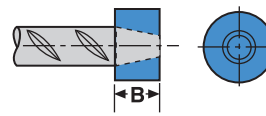
| Inch lb | Rebar Size Designation | | Part No. | "A" | | "B" | | "E" | | "F" | | Weight | | |
|---------|------------------------|----------------------|----------|---------|-------|-----|---------|-----|----|-----|----|--------|-----|------|
| | Metric | Canadian Soft Metric | | in | mm | in | mm | in | mm | in | mm | lb | kg | |
| 4 | 12 mm | 10M | 13 | EL12D6 | 1-3/8 | 35 | 9/16 | 14 | — | — | — | — | 0.2 | 0.09 |
| 5 | 16 mm | 15M | 16 | EL16D6 | 1-1/2 | 38 | 7/8 | 22 | — | — | — | — | 0.4 | 0.18 |
| 6 | 20 mm | 20M | 19 | EL20D6 | 1-7/8 | 48 | 1-1/8 | 29 | — | — | — | — | 0.8 | 0.36 |
| 7 | 22 mm | — | 22 | EL22D6 | 2 | 51 | 1-1/4 | 32 | — | — | — | — | 1.0 | 0.45 |
| 8 | 25 mm | 25M | 25 | EL25D6 | 2-1/4 | 57 | 1-3/8 | 35 | — | — | — | — | 1.3 | 0.59 |
| 9 | 28 mm | 30M | 29 | EL28D6 | 2-3/4 | 70 | 1-1/2 | 38 | — | — | — | — | 2.2 | 1.00 |
| 10 | 32 mm | — | 32 | EL32D6 | 3 | 76 | 1-9/16 | 40 | — | — | — | — | 2.7 | 1.22 |
| 11 | 36 mm | 35M | 36 | EL36D6 | 3-1/4 | 83 | 1-11/16 | 43 | — | — | — | — | 3.4 | 1.54 |
| — | 40 mm | — | — | EL40D6 | 3-3/4 | 95 | 2-1/2 | 64 | 1 | 25 | 3 | 76 | 5.5 | 2.49 |
| 14 | 43 mm | 45M | 43 | EL43TD6 | 4 | 102 | 2-1/8 | 54 | 1 | 25 | 3 | 76 | 4.9 | 2.22 |
| — | 50 mm | — | — | EL50TD6 | 4-1/2 | 114 | 2-9/16 | 65 | 1 | 25 | 3 | 76 | 7.1 | 3.22 |
| 18 | 57 mm | 55M | 57 | EL57TD6 | 5-1/8 | 130 | 2-3/4 | 70 | 1 | 25 | 3 | 76 | 9.8 | 4.45 |

NOTE: Thread does not need to be flush with end of LENTON TERMINATOR. Thread may be +/- 2 threads from backside of coupler.

Diameter exceeds 5x bar area requirements of AC347 & ACI.
Bar dimensions and weights listed may vary by region. Coupler sizes not shown on these pages are available by special order. Contact your ERICO representative for more information on special sizes. Article numbers used in Europe, Middle East, Africa and Asia exclusively.

LENTON® Mechanical Anchors

Meets international standards, including BS8110, DIN1045, NFA-35-020, ACI®318 and ASTM® A970.



A = large diameter
B = length of coupler body/
 bar engagement
E = length of small step
F = small diameter

LENTON® TERMINATOR - D16

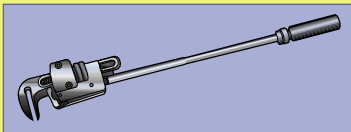
Standard in the Americas*, Europe, the Middle East and Africa

| Rebar Size Designation mm | Part No. | "A" mm | "B" mm | "E" mm | "F" mm | Weight Kg |
|---------------------------|-----------|--------|--------|--------|--------|-----------|
| 10 | EL10D16N | 22 | 18 | - | - | 0.13 |
| 12 | EL12D16N | 28 | 19 | - | - | 0.13 |
| 14 | EL14D16N | 31 | 22 | - | - | 0.14 |
| 16 | EL16D16N | 36 | 24 | - | - | 0.16 |
| 18 | EL18D16N | 40 | 30 | - | - | 0.32 |
| 20 | EL20D16N | 45 | 35 | - | - | 0.37 |
| 22 | EL22D16N | 50 | 38 | - | - | 0.49 |
| 25 | EL25D16N | 57 | 40 | - | - | 0.76 |
| 28 | EL28D16N | 64 | 42 | - | - | 0.93 |
| 30 | EL30D16N | 67 | 52 | - | - | 1.35 |
| 32 | EL32D16N | 72 | 46 | - | - | 1.34 |
| 34 | EL34D16N | 76 | 56 | - | - | 1.87 |
| 36 | EL36D16N | 81 | 52 | 25 | 75 | 1.73 |
| 38 | EL38D16N | 85 | 54 | 25 | 75 | 1.74 |
| 40 | EL40D16N | 89 | 58 | 25 | 80 | 2.14 |
| 43 | EL43TD16N | 96 | 67 | 25 | 80 | 2.95 |
| 50 | EL50TD16N | 112 | 71 | 25 | 80 | 3.82 |
| 57 | EL57TD16N | 128 | 84 | 25 | 80 | 5.74 |

NOTE: Thread does not need to be flush with end of LENTON TERMINATOR. Thread may be +/- 2 threads from back of coupler.

* Available in select regions in U.S.

LENTON Equipment & Accessories



Inspection Wrench

While all LENTON mechanical splices can be easily tightened with a standard pipe wrench in 4 to 4-1/2 turns, ERICO also supplies adjustable inspection wrenches. This wrench can be used to both install couplers and inspect torque values after installation.

Our recommended inspection wrench is engineered to provide values of torque enabling you to achieve the best possible splice.

The inspection wrench is intended for use on ALL types and styles of LENTON taper threaded couplers/products. This includes LENTON® FORM SAVER, LENTON TERMINATOR, LENTON Position Couplers and LENTON Half Couplers.

Recommended Wrench Settings

| Bar Size mm | Bar Size # | Wrench Settings ft lbs | Nm |
|-------------|------------|------------------------|-----|
| 10 | 3 | 30 | 40 |
| 12 | 4 | 30 | 40 |
| 14 | | 60 | 80 |
| 16 | 5 | 90 | 120 |
| 18 | | 110 | 150 |
| 20 | 6 | 130 | 180 |
| 22 | 7 | 160 | 220 |
| 25(24-26) | 8 | 200 | 270 |
| 28 | 9 | 200 | 270 |
| 30 | | 200 | 300 |
| 32 | 10 | 200 | 300 |
| 34 | | 200 | 300 |
| 36 | 11 | 200 | 300 |
| 38 | 12 | 200* | 350 |
| 40 | | 200* | 350 |
| 43 | 14 | 200* | 350 |
| 50 | | 200* | 350 |
| 57 | 18 | 200* | 350 |

*Americas only

Bar dimensions and weights listed may vary by region. Coupler sizes not shown on these pages are available by special order. Contact your ERICO representative for more information on special sizes. Article numbers used in Europe, Middle East, Africa and Asia exclusively.

LENTON® Equipment & Accessories

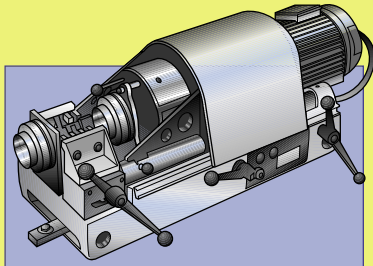
Standard Bar Threader

LENTON bar threaders can be conveniently set up in a fabricator's shop or on site, allowing greater production control. Machines are available for rent from ERICO worldwide. Training is provided by ERICO instructors. Thread cutting chaser sets and cutting oil are consumables and must be purchased by the user.

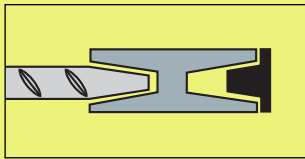
| Bar size Ø | (in-lb) mm | (#3-#5) 10-18 | (#6-#9) 20-28 | (#10-#14) 30-43 | (#18) 50-57 |
|--|---------------|------------------|------------------|--------------------|----------------|
| Bar threads per set of chasers (normal average) | | 600 | 400 | 300 | 150 |
| Bar threads per liter cutting oil | | 400 | 200 | 100 | 75 |
| Guide for threads per hour | | 70/80 | 40/50 | 20/30 | 12/20 |

The EL-BT-101 is rugged and has performed well under varied conditions in many parts of the world. Truly a "take anywhere" machine for all bar sizes and profiles.

Contact ERICO for further information on our different bar threaders.

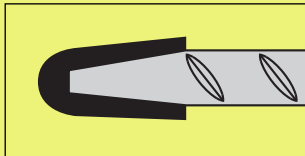


LENTON bar threading machine EL-BT-101
Net weight 178 kg (392 lbs).
Cutting oil capacity 14 liters (3.7 gal).



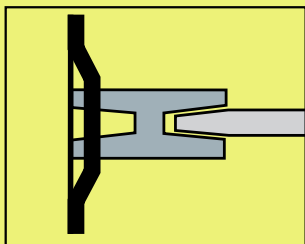
Internal Coupler Protectors*

- Protects threads from contamination, such as in future extension applications
- Can be easily removed in seconds
- Enables continuous connections with existing reinforcing bar already placed in concrete
- Convenient and cost effective



Bar End Protectors*

- Protects bar end from contamination and damage
- Placed over bar end immediately after threading
- Inhibits the formation of rust when the bar is exposed to the elements



Form Fixers (Standard in Europe, the Middle East and Africa)

Form fixers are nailing plates that are coupler dependent. These plates come in a variety of sizes and styles for connecting standard and position couplers to wood forms. The form fixer can be attached to the formwork before the anchor bar and coupler are fixed to it. All form fixers are easy to install and remove.

Epoxy-Coated and Galvanized LENTON Mechanical Splices

- All LENTON standard and transition couplers, as well as LENTON® TERMINATOR are available in epoxy-coated, stainless and galvanized (special order only).
- LENTON galvanized mechanical splices meet either ASTM® A767, B695 or B633 requirements, as applicable.
- LENTON epoxy-coating complies with ASTM A775 and AASHTO® M284.
- Position couplers are also available in epoxy-coated (special order only).

NOTE: Coupler dimensions listed in this catalog may vary based on raw material supply.

*Refer to instruction sheets for additional information.

A Look At ERICO Concrete Reinforcement Products

ERICO has been a pioneer in the concrete construction industry for more than 40 years. We changed rebar splicing, first with CADWELD® mechanical connections, then with the LENTON® mechanical splicing system – the #1 mechanical connector in the world. ERICO now offers a wide range of mechanical splices for almost any construction need:



- **CADWELD®** – Premiere mechanical splicing system
- **LENTON® FORM SAVER** – Ideal for segmental pour
- **LENTON® INTERLOK** – Ideal for precast structures
- **LENTON® QUICK WEDGE** – Ideal for quick retrofit
- **LENTON® SPEED SLEEVE** – Ideal for compression situations
- **LENTON® TERMINATOR** – Ideal alternative to hooked rebar anchorage
- **LENTON® LOCK** – Ideal for in-situ splices

The entire ERICO line of mechanical rebar splices has replaced many conventional splicing systems, such as welding and lap splicing. Unlike butt welding, ERICO 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, ERICO offers you the expertise you need for all your rebar splicing projects.

ERICO is a leading global designer, manufacturer and marketer of precision-engineered specialty metal products serving niche markets in a diverse range of electrical, construction, utility and rail applications. The company is headquartered in Solon, Ohio, USA with a network of sales locations serving more than 25 countries and with manufacturing and distribution facilities worldwide. ERICO's well-known brand names include: CADDY® electrical and mechanical fixings, fasteners and supports; CADWELD® welded electrical connections; CRITEC® surge protection devices; ERICO® rail and industrial products; ERIFLEX® low voltage power distribution; ERITECH® facility electrical protection; and LENTON® concrete products. Visit ERICO online at www.erico.com.



LENTON Taper Threaded Mechanical Splices:

How to Order

To order the correct LENTON mechanical splices for your construction applications, please call your local ERICO office. Locations are listed on back cover.

How to Specify

Specific: Mechanical connections shall be LENTON® taper threaded couplers as manufactured by ERICO.

Generic: The mechanical connection shall meet building code requirements of developing in tension or compression, as required, by*. The mechanical connection shall be the positive locking, taper threaded type coupler manufactured from high quality steel. The bar ends must be taper threaded using the manufacturer's bar threading equipment to ensure proper taper and thread engagement. Bars shall be installed to the manufacturer's requirements. The couplers shall be manufactured using registered quality systems around the world.

*as required by local norms/codes.

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