

Why Taper-Lock is Better

- ◆ ICC Evaluation Report ESR-2481
- ◆ Portable design allows you to take the system wherever you need it.
- ◆ Sharpen cutters up to three times for previously unheard of efficiency! Spend less money on new blades, and save your crew from unnecessary downtime.
- ◆ Revolutionary high-speed taper cut more than doubles the production of conventional cutters, allowing you to beat deadlines and reduce costs.
- ◆ No need to purchase any costly additional cutting fluids — simply use a conventional water-soluble cutting fluid.
- ◆ Strong unit withstands tough projects. Straightforward process makes operation and repair easy.

Splice Rebar On-site, in a Fraction of the Time

You already rely on Bar Lock® couplers from Dayton Superior — the company you trust is proud to offer the portable, high-speed taper cut solution! Turn the system that's already been proven on sites throughout Europe into your on-site advantage. Dayton Superior is the only company able to bring the reliable Taper-Lock design to North American fabricators and contractors.

Use the Dayton Taper-Lock on Your Next Job Site

The compact design saves room in your fabrication shop or on the job with all the advantages and one-quarter the size of similar machines, it's time to re-think rebar splicing! Strength certification and test results are available upon request through the qualified Dayton Superior Dealer network throughout North America.



TYPICAL SPECIFICATIONS:

Specific:

Mechanical connections shall be Taper-Lock® taper threaded couplers as manufactured by Dayton Superior Corp.

Generic:

The mechanical connection shall meet building code requirements of developing in tension and compression as required by _____ (insert name here). 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. All couplers shall be installed per the manufacturer's approved procedures.

D-310 TAPER-LOCK STANDARD COUPLER

PRODUCT DESCRIPTION:

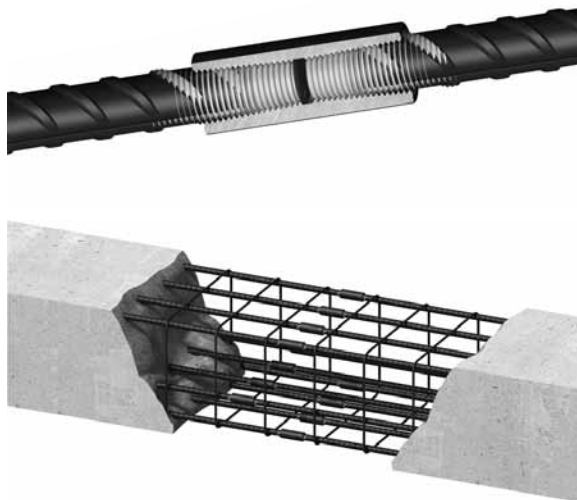
The D-310 Taper-Lock is used to join any bar-to-bar connection of the same size, where one bar can be rotated. This simplifies rebar splicing in areas where rebar congestion prevents the use of long lap splices. Engagement of the bar within the coupler is simplified by the taper thread which aids in alignment.

PRODUCT FEATURES AND BENEFITS:

- Used in 80% of all connections
- The compact design of the coupler ensures suitability for use in confined situations where space is restricted or where the loss of cover must be minimized
- Reduces engineering design time
- Eliminates rebar congestion
- Provides Type 2 splicing capacities (160% F_y) and simplifies load paths
- Meets approval from ICC (ESR 2481), ACI, CalTrans, IBC2006, and Ministries of Transportation for Ontario and Quebec
- Approved for use in fatigue applications

PRODUCT SPECIFICATIONS:

- Extension of Taper-Lock product line
- Accommodates rebar sizes #4 through #18
- Available in Black, Epoxy or Hot-Dipped Galvanized
- Type 2 Splice (160% of F_y)
- Connect bars of the same size using an internal sleeve with two right hand tapered threads
- Each end must be tightened with calibrated torque wrench



HOW TO ORDER:

SPECIFY:

1. Quantity
2. Name
3. Rebar size
4. Finish
5. Made in USA requirement

EXAMPLE:

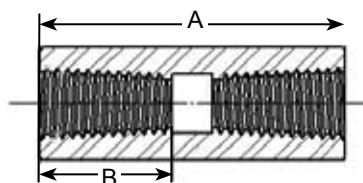
1. 500 pieces
2. D-310 Taper-Lock® Standard Coupler
3. #6
4. Black
5. Made in the USA not required

PRODUCT CODES

Bar Size			Made in the USA (Black) ASTM A311 Grade 1144	Made in the USA (Epoxy) ASTM A311 Grade 1144	Made in the USA (Hot dipped Galvanized) ASTM A311 Grade 1144	(Black) ASTM A576 Grade 1045	(Epoxy) ASTM A576 Grade 1045
US	Metric (mm)	CN (m)					
#4	[13]	[10]	127020	127258	128037	126389	128322
#5	[16]	[15]	127021	127259	128038	126390	128323
#6	[19]	[20]	127022	127260	128039	126391	128324
#7	[22]	-	127023	127261	128040	126392	128325
#8	[25]	[25]	127024	127262	128041	126393	128326
#9	[29]	[30]	127025	127263	128042	126394	128327
#10	[32]	-	127026	127264	128043	126395	128328
#11	[36]	[35]	127027	127265	128044	126396	128329
#14	[43]	[45]	127028	127266	128045	126397	128330
#18	[57]	[55]	127019	127267	128046	126398	128331

NOMINAL ENGAGEMENT

Bar Size			"A"		"B" (Nominal)	
US	Metric (MM)	CN (M)	US	(mm)	US	(mm)
#4	[13]	[10]	2.362	[60]	1.024	[26]
#5	[16]	[15]	2.756	[70]	1.221	[31]
#6	[19]	[20]	2.874	[73]	1.281	[32.5]
#7	[22]	-	3.189	[81]	1.399	[35.5]
#8	[25]	[25]	3.622	[92]	1.615	[41]
#9	[29]	[30]	4.016	[102]	1.812	[46]
#10	[32]	-	4.488	[114]	2.049	[52]
#11	[36]	[35]	4.921	[125]	2.246	[57.5]
#14	[43]	[45]	5.827	[148]	2.719	[69]
#18	[57]	[55]	7.638	[194]	3.625	[92]



INSTALLATION: D-310 TAPER-LOCK STANDARD COUPLER

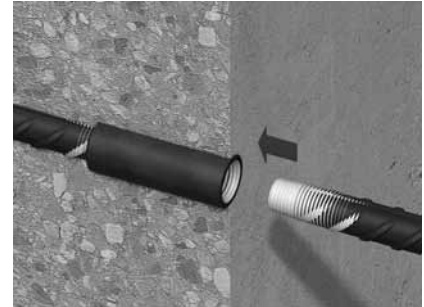
STEP 1

The coupler is normally supplied fixed to the reinforcing bar, ready to be installed and cast in concrete.



STEP 2

After casting the concrete and when ready to extend, remove the thread protector from the coupler. Position the continuation bar in the sleeve and rotate the bar into the coupler.



STEP 3

Continue to screw the bar into the coupler until tight.



STEP 4

To ensure correct installation, tighten the joint to the specified torque using the calibrated torque wrench on the continuation bar.



TORQUE SETTINGS: D-310 TAPER-LOCK STANDARD COUPLER

Taper-Lock Coupler Torque Chart

Rebar Size			Wrench Setting					
US	Metric (mm)	CN [M]	Small 60th		Medium 200th		Large 300th	
			Imperial	Metric	Imperial	Metric	Imperial	Metric
#4	13mm	[10]	39 lb-ft	53 Nm	33 lb-ft	45 Nm	-	-
#5	16mm	[15]	57 lb-ft	77 Nm	48 lb-ft	66 Nm	62 lb-ft	84 Nm
#6	19mm	[20]	78 lb-ft	106 Nm	66 lb-ft	90 Nm	85 lb-ft	115 Nm
#7	22mm	—	105 lb-ft	143 Nm	90 lb-ft	122 Nm	116 lb-ft	157 Nm
#8	25mm	[25]	139 lb-ft	188 Nm	119 lb-ft	161 Nm	153 lb-ft	207 Nm
#9	29mm	[30]	146 lb-ft	198 Nm	124 lb-ft	167 Nm	159 lb-ft	215 Nm
#10	32mm	—	147 lb-ft	199 Nm	125 lb-ft	170 Nm	162 lb-ft	219 Nm
#11	36mm	[35]	-	-	134 lb-ft	182 Nm	173 lb-ft	234 Nm
#14	43mm	[45]	-	-	147 lb-ft	200 Nm	190 lb-ft	257 Nm
#18	57mm	[55]	-	-	147 lb-ft	200 Nm	190 lb-ft	257 Nm

* Applies to Standard, Transitional, Positional, Flanged, Column Connector, and Weldable couplers based on rebar diameter.

Taper-Lock Locking Nut Torque Chart

Rebar Size			Wrench Setting					
US	Metric (mm)	CN [M]	Small 60th		Medium 200th		Large 300th	
			Imperial	Metric	Imperial	Metric	Imperial	Metric
#4	13mm	[10]	9 lb-ft	12 Nm	30 lb-ft	40 Nm	-	-
#5	16mm	[15]	13 lb-ft	18 Nm	30 lb-ft	40 Nm	-	-
#6	19mm	[20]	18 lb-ft	24 Nm	30 lb-ft	40 Nm	-	-
#7	22mm	—	24 lb-ft	33 Nm	30 lb-ft	40 Nm	-	-
#8	25mm	[25]	32 lb-ft	43 Nm	36 lb-ft	48 Nm	-	-
#9	29mm	[30]	33 lb-ft	45 Nm	37 lb-ft	50 Nm	-	-
#10	32mm	—	37 lb-ft	50 Nm	41 lb-ft	56 Nm	-	-
#11	36mm	[35]	40 lb-ft	54 Nm	45 lb-ft	61 Nm	-	-
#14	43mm	[45]	-	-	54 lb-ft	74 Nm	57 lb-ft	77 Nm
#18	57mm	[55]	-	-	59 lb-ft	81 Nm	70 lb-ft	95 Nm

* Applies Positional coupler locking nuts only based on rebar diameter.

D-320 TAPER-LOCK TRANSITIONAL COUPLER

PRODUCT DESCRIPTION:

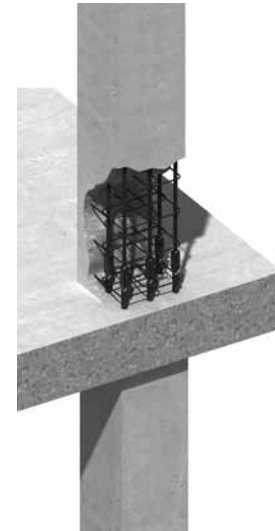
The D-320 Taper-Lock is used to join two reinforcing bars of different sizes. It is commonly used for economic designs and columns where the diameter of the rebar reduces as the columns extend up the structure.

PRODUCT FEATURES AND BENEFITS:

- Eliminates rebar congestion
- Reduces engineering design time
- Allows for the connection of two different size bars
- Provides Type 2 splicing capacities ($160\% F_y$) and simplifies load paths
- Meets approval from ICC (ESR 2481), ACI, CalTrans, IBC 2006 and Ministries of Transportation for Ontario and Quebec
- Approved for use in fatigue applications

PRODUCT SPECIFICATIONS:

- Extension of Taper-Lock product line
- Accommodates all rebar configurations
- Available in Black or Epoxy
- Type 2 Splice (160% of F_y)
- Threads in internal sleeve correspond to the appropriate bar size
- Each end must be tightened and calibrated with a torque wrench



PRODUCT CODES

Bar Size			Made in the USA (Epoxy)	Made in the USA (Black)
US	Metric (mm)	CN (m)	ASTM A311 Grade 1144	ASTM A311 Grade 1144
#4-#5	[13-16]	[10-15]	127249	127218
#5-#6	[16-19]	[15-20]	127250	127219
#6-#7	[19-22]	-	127251	127220
#7-#8	[22-25]	-	127252	127221
#8-#9	[25-29]	[25-30]	127253	127222
#9-#10	[29-32]	-	127254	127223
#10-#11	[32-36]	-	127255	127224
#11-#14	[36-43]	[35-45]	127256	127225
#14-#18	[43-57]	[45-55]	127257	127226

Other sizes available upon request

HOW TO ORDER :

SPECIFY:

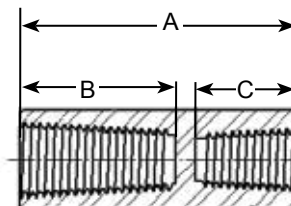
1. Quantity
2. Name
3. Rebar size
4. Finish

EXAMPLE:

1. 500 pieces
2. D-320 Taper-Lock® Transitional Coupler
3. #6 - #7
4. Black

NOMINAL ENGAGEMENT

Bar Size			"A"		"B" (Nominal)		"C" (Nominal)	
US	Metric [mm]	CN [M]	US	[mm]	US	[mm]	US	[mm]
#4-#5	[13-16]	[10-15]	2.7953	[71]	1.5748	[40]	1.0236	[26]
#5-#6	[16-19]	[15-20]	3.0315	[77]	1.6535	[42]	1.378	[35]
#6-#7	[19-22]	—	3.2283	[82]	1.7931	[45.5]	1.437	[36.5]
#7-#8	[22-25]	—	3.6024	[91.5]	2.0079	[51]	1.5945	[40.5]
#8-#9	[25-29]	[25-30]	4.0157	[102]	2.2047	[56]	1.811	[46]
#9-#10	[29-32]	—	4.4488	[113]	2.4409	[62]	2.0079	[51]
#10-#11	[32-36]	—	4.9213	[125]	2.6772	[68]	2.2441	[57]
#11-#14	[36-43]	[35-45]	5.5906	[142]	3.1102	[79]	2.4803	[63]
#14-#18	[43-57]	[45-55]	6.9291	[176]	4.0157	[102]	2.9134	[74]



INSTALLATION:

D-320 TAPER-LOCK TRANSITIONAL COUPLER

When installing the D-320 Transitional coupler, the larger of the two bars must be connected first the smaller bar is to be connected after the coupler is tightened to the appropriate torque on the larger rebar. This process ensures that the smaller bar does not receive the higher torque used to connect the larger bar. As an alternative, it is permitted to connect the smaller bar to the coupler first. If the smaller bar is connected first, a second wrench can be used to keep the coupler from rotating while the second connection to the larger bar is made.

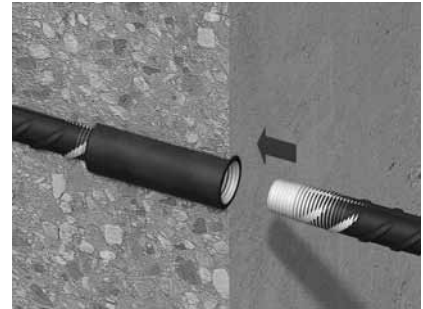
STEP 1

The coupler is normally supplied fixed to the reinforcing bar, ready to be installed and cast in concrete.



STEP 2

After casting the concrete and when ready to extend, remove the thread protector from the coupler. Position the continuation bar in the sleeve and rotate the bar into the coupler.



STEP 3

Continue to screw the bar into the coupler until tight.



STEP 4

To ensure correct installation, tighten the joint to the specified torque using the calibrated torque wrench on the continuation bar.



TORQUE SETTINGS:

D-320 TAPER-LOCK® TRANSITIONAL COUPLER

Taper-Lock Coupler Torque Chart

Rebar Size			Wrench Setting					
US	Metric (mm)	CN [M]	Small 60th		Medium 200th		Large 300th	
			Imperial	Metric	Imperial	Metric	Imperial	Metric
#4	13mm	[10]	39 lb-ft	53 Nm	33 lb-ft	45 Nm	-	-
#5	16mm	[15]	57 lb-ft	77 Nm	48 lb-ft	66 Nm	62 lb-ft	84 Nm
#6	19mm	[20]	78 lb-ft	106 Nm	66 lb-ft	90 Nm	85 lb-ft	115 Nm
#7	22mm	—	105 lb-ft	143 Nm	90 lb-ft	122 Nm	116 lb-ft	157 Nm
#8	25mm	[25]	139 lb-ft	188 Nm	119 lb-ft	161 Nm	153 lb-ft	207 Nm
#9	29mm	[30]	146 lb-ft	198 Nm	124 lb-ft	167 Nm	159 lb-ft	215 Nm
#10	32mm	—	147 lb-ft	199 Nm	125 lb-ft	170 Nm	162 lb-ft	219 Nm
#11	36mm	[35]	-	-	134 lb-ft	182 Nm	173 lb-ft	234 Nm
#14	43mm	[45]	-	-	147 lb-ft	200 Nm	190 lb-ft	257 Nm
#18	57mm	[55]	-	-	147 lb-ft	200 Nm	190 lb-ft	257 Nm

* Applies to Standard, Transitional, Positional, Flanged, Column Connector, and Weldable couplers based on rebar diameter.

Taper-Lock Locking Nut Torque Chart

Rebar Size			Wrench Setting					
US	Metric (mm)	CN [M]	Small 60th		Medium 200th		Large 300th	
			Imperial	Metric	Imperial	Metric	Imperial	Metric
#4	13mm	[10]	9 lb-ft	12 Nm	30 lb-ft	40 Nm	-	-
#5	16mm	[15]	13 lb-ft	18 Nm	30 lb-ft	40 Nm	-	-
#6	19mm	[20]	18 lb-ft	24 Nm	30 lb-ft	40 Nm	-	-
#7	22mm	—	24 lb-ft	33 Nm	30 lb-ft	40 Nm	-	-
#8	25mm	[25]	32 lb-ft	43 Nm	36 lb-ft	48 Nm	-	-
#9	29mm	[30]	33 lb-ft	45 Nm	37 lb-ft	50 Nm	-	-
#10	32mm	—	37 lb-ft	50 Nm	41 lb-ft	56 Nm	-	-
#11	36mm	[35]	40 lb-ft	54 Nm	45 lb-ft	61 Nm	-	-
#14	43mm	[45]	-	-	54 lb-ft	74 Nm	57 lb-ft	77 Nm
#18	57mm	[55]	-	-	59 lb-ft	81 Nm	70 lb-ft	95 Nm

* Applies Positional coupler locking nuts only based on rebar diameter.

D-330 TAPER-LOCK POSITIONAL COUPLER

PRODUCT DESCRIPTION:

The D-330 Taper-Lock is used to join two bars of the same size where neither bar can be rotated. Typical applications are hook bar connections and column to slab connections.

PRODUCT FEATURES AND BENEFITS:

- Eliminates rebar congestion
- Reduces engineering design time
- Rebar never has to be rotated
- Provides Type 2 splicing capacities (160% F_y) and simplifies load paths
- Meets approval from ICC (ESR 2481), ACI, CalTrans, IBC 2006 and Ministries of Transportation for Ontario and Quebec
- Approved for use in fatigue applications
- Adjustability of coupler allows it to be a closer between two fixed bars

PRODUCT SPECIFICATIONS:

- Extension of Taper-Lock product line
- Accommodates rebar sizes #4 through #18
- Available in Black or Epoxy
- Type 2 Splice (160% of F_y)
- Uses a three part system for connecting rebar
- Each end must be tightened and calibrated with a torque wrench

PRODUCT CODES

Bar Size			Made in USA (Black)	Made in the USA (Epoxy)	(Black)
US	Metric (mm)	CN (m)	ASTM A311 Grade 1144	ASTM A311 Grade 1144	ASTM A576 Grade 1045
#4	[13]	[10]	127065	127239	128268
#5	[16]	[15]	127066	127240	128269
#6	[19]	[20]	127067	127241	128270
#7	[22]	-	127068	127242	128271
#8	[25]	[25]	127069	127243	128272
#9	[29]	[30]	127070	127244	128273
#10	[32]	-	127071	127245	128274
#11	[36]	[35]	127072	127246	128275
#14	[43]	[45]	127073	127247	128276
#18	[57]	[55]	127074	127248	128277

HOW TO ORDER :

SPECIFY:

1. Quantity
2. Name
3. Rebar size
4. Finish
5. Made in USA requirement

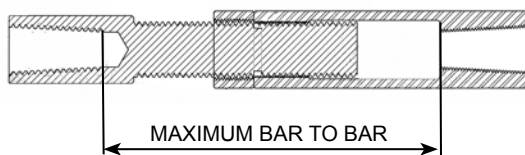
EXAMPLE:

1. 500 pieces
2. D-330 Taper-Lock® Positional Coupler
3. #6
4. Black
5. Made in USA not required

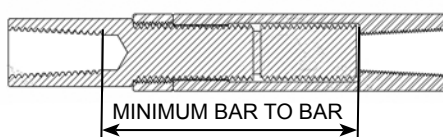
NOMINAL ENGAGEMENT

Bar Size			MAXIMUM BAR TO BAR DISTANCE		MINIMUM BAR TO BAR DISTANCE	
US	Metric [MM]	CN [M]	US	[mm]	US	[mm]
#4	[13]	[10]	4.4	[111.8]	4	[101.5]
#5	[16]	[15]	4.8	[121.0]	4.3	[109.2]
#6	[19]	[20]	4.7	[119.5]	4.4	[111.8]
#7	[22]	-	6.5	[166.2]	5.8	[147.3]
#8	[25]	[25]	6.7	[170.5]	5.8	[147.3]
#9	[29]	[30]	6.8	[172.5]	5.9	[149.9]
#10	[32]	-	7.3	[186.5]	6.3	[158.9]
#11	[36]	[35]	8.3	[210.0]	6.8	[172.6]
#14	[43]	[45]	9.6	[244.0]	7.7	[195.6]
#18	[57]	[55]	12.3	[312.1]	9.5	[241.2]

MAXIMUM EXTENDED POSITION



MINIMAL COLLAPSED POSITION



INSTALLATION: D-330 TAPER-LOCK POSITIONAL COUPLER

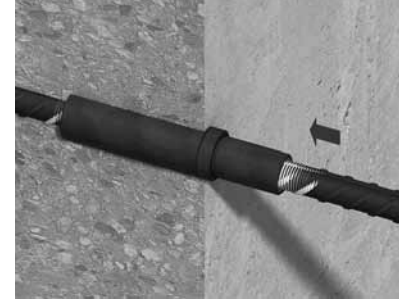
STEP 1

The female section of the positional coupler is normally cast flush in concrete. The installer must take care to protect the internal threads and prevent the ingress of concrete. Once cast and ready to extend, the male end complete with locknut can be screwed into place.



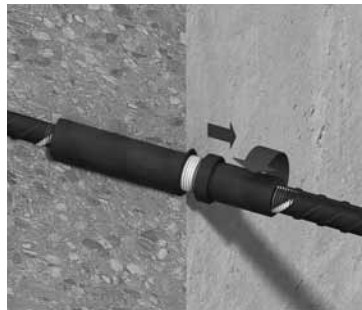
STEP 2

Position the continuation bar as near as possible to the coupler fitted to the cast-in-bar.



STEP 3

Run the male component and locknut onto the continuation bar until fully engaged.



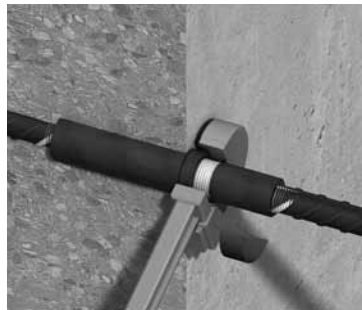
STEP 4

Using the torque wrench, tighten the male component on the continuation bar to the specified torque while holding the continuation bar with a second wrench.



STEP 5

Run the locknut along the threaded barrel of the male component to adjoin the female section. Using the torque wrench, tighten the locknut to the specified torque.

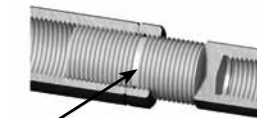


TORQUE SETTINGS: DA-330 TAPER-LOCK POSITIONAL COUPLER

CORRECT INSTALLATION

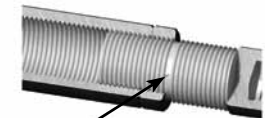
The groove in the parallel threaded section of the male component must be completely covered by the locknut. If any part of the groove is visible beyond the locknut, the degree of adjustability has been exceeded and the installation is incorrect.

CORRECT INSTALLATION



Groove is completely hidden within locknut

INCORRECT INSTALLATION



Groove is protruding from locknut

Taper-Lock Coupler Torque Chart

Rebar Size			Wrench Setting					
US	Metric (mm)	CN [M]	Small 60th		Medium 200th		Large 300th	
			Imperial	Metric	Imperial	Metric	Imperial	Metric
#4	13mm	[10]	39 lb-ft	53 Nm	33 lb-ft	45 Nm	-	-
#5	16mm	[15]	57 lb-ft	77 Nm	48 lb-ft	66 Nm	62 lb-ft	84 Nm
#6	19mm	[20]	78 lb-ft	106 Nm	66 lb-ft	90 Nm	85 lb-ft	115 Nm
#7	22mm	—	105 lb-ft	143 Nm	90 lb-ft	122 Nm	116 lb-ft	157 Nm
#8	25mm	[25]	139 lb-ft	188 Nm	119 lb-ft	161 Nm	153 lb-ft	207 Nm
#9	29mm	[30]	146 lb-ft	198 Nm	124 lb-ft	167 Nm	159 lb-ft	215 Nm
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#14	43mm	[45]	-	-	147 lb-ft	200 Nm	190 lb-ft	257 Nm
#18	57mm	[55]	-	-	147 lb-ft	200 Nm	190 lb-ft	257 Nm

* Applies to Standard, Transitional, Positional, Flanged, Column Connector, and Weldable couplers based on rebar diameter.

Taper-Lock Locking Nut Torque Chart

Rebar Size			Wrench Setting					
US	Metric (mm)	CN [M]	Small 60th		Medium 200th		Large 300th	
			Imperial	Metric	Imperial	Metric	Imperial	Metric
#4	13mm	[10]	9 lb-ft	12 Nm	30 lb-ft	40 Nm	-	-
#5	16mm	[15]	13 lb-ft	18 Nm	30 lb-ft	40 Nm	-	-
#6	19mm	[20]	18 lb-ft	24 Nm	30 lb-ft	40 Nm	-	-
#7	22mm	—	24 lb-ft	33 Nm	30 lb-ft	40 Nm	-	-
#8	25mm	[25]	32 lb-ft	43 Nm	36 lb-ft	48 Nm	-	-
#9	29mm	[30]	33 lb-ft	45 Nm	37 lb-ft	50 Nm	-	-
#10	32mm	—	37 lb-ft	50 Nm	41 lb-ft	56 Nm	-	-
#11	36mm	[35]	40 lb-ft	54 Nm	45 lb-ft	61 Nm	-	-
#14	43mm	[45]	-	-	54 lb-ft	74 Nm	57 lb-ft	77 Nm
#18	57mm	[55]	-	-	59 lb-ft	81 Nm	70 lb-ft	95 Nm

* Applies Positional coupler locking nuts only based on rebar diameter.

D-340 TAPER-LOCK FLANGE COUPLER

PRODUCT DESCRIPTION:

The D-340 Taper-Lock simplifies the forming process by eliminating the need to cut or drill the formwork. It is used for segmental pours, precast applications, formed applications, and future work applications.

PRODUCT FEATURES AND BENEFITS:

- Reduces engineering design time
- Provides a safer working environment by eliminating protruding rebar ends through the formwork
- Eliminates the need to cut or drill formwork
- Eliminates rebar congestion
- Provides Type 2 splicing capacities (160% F_y) and simplifies load paths
- Meets approval from ICC (ESR 2481), ACI, CalTrans, IBC 2006, and Ministries of Transportation for Ontario and Quebec, Canada
- Approved for use in fatigue applications

PRODUCT SPECIFICATIONS:

- Extension of Taper-Lock product line
- Accommodates rebar sizes #4 through #18
- Available in Black or Epoxy
- Type 2 Splice (160% of F_y)
- Fastened to formwork by nails
- Each end must be tightened with calibrated torque wrench

PRODUCT CODES

US	Bar Size		Made in USA (Black) ASTM A311 Grade 1144	Made in the USA (Epoxy) ASTM A311 Grade 1144	Made in the USA (Hot dipped Galva- nized) ASTM A311 Grade 1144	(Black) ASTM A576 Grade 1045	(Epoxy) ASTM A576 Grade 1045
	Metric (mm)	CN (m)					
#4	[13]	[10]	127790	127847	128078	127881	128342
#5	[16]	[15]	127791	127848	128079	127882	128343
#6	[19]	[20]	127792	127849	128080	127885	128344
#7	[22]	-	127793	127850	128081	127888	128345
#8	[25]	[25]	127794	127851	128082	127890	128346
#9	[29]	[30]	127795	127852	128083	127892	128347
#10	[32]	-	127796	127853	128084	127894	128348
#11	[36]	[35]	127797	127854	182085	127896	128349
#14	[43]	[45]	127798	127855	128313	128373	128350
#18	[57]	[55]	127799	127856	128314	128374	128351

HOW TO ORDER :

SPECIFY:

1. Quantity
2. Name
3. Rebar size
4. Finish
5. Made in USA requirement

EXAMPLE:

1. 500 pieces
2. D-340 Taper-Lock® Flange Coupler
3. #6
4. Black
5. Made in USA not required



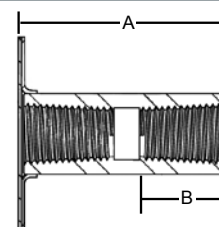
Taper-Lock Coupler Torque Chart

Rebar Size			Wrench Setting					
US	Metric (mm)	CN [M]	Small 60th		Medium 200th		Large 300th	
			Imperial	Metric	Imperial	Metric	Imperial	Metric
#4	13mm	[10]	39 lb-ft	53 Nm	33 lb-ft	45 Nm	-	-
#5	16mm	[15]	57 lb-ft	77 Nm	48 lb-ft	66 Nm	62 lb-ft	84 Nm
#6	19mm	[20]	78 lb-ft	106 Nm	66 lb-ft	90 Nm	85 lb-ft	115 Nm
#7	22mm	—	105 lb-ft	143 Nm	90 lb-ft	122 Nm	116 lb-ft	157 Nm
#8	25mm	[25]	139 lb-ft	188 Nm	119 lb-ft	161 Nm	153 lb-ft	207 Nm
#9	29mm	[30]	146 lb-ft	198 Nm	124 lb-ft	167 Nm	159 lb-ft	215 Nm
#10	32mm	—	147 lb-ft	199 Nm	125 lb-ft	170 Nm	162 lb-ft	219 Nm
#11	36mm	[35]	-	-	134 lb-ft	182 Nm	173 lb-ft	234 Nm
#14	43mm	[45]	-	-	147 lb-ft	200 Nm	190 lb-ft	257 Nm
#18	57mm	[55]	-	-	147 lb-ft	200 Nm	190 lb-ft	257 Nm

* Applies to Standard, Transitional, Positional, Flanged, Column Connector, and Weldable couplers based on rebar diameter.

NOMINAL ENGAGEMENT

Bar Size			"A"		"B"	
US	Metric [MM]	CN [M]	US	[mm]	US	[mm]
#4	[13]	[10]	2.362	[60]	1.024	[26]
#5	[16]	[15]	2.756	[70]	1.221	[31]
#6	[19]	[20]	2.874	[73]	1.281	[32.5]
#7	[22]	—	3.189	[81]	1.399	[35.5]
#8	[25]	[25]	3.622	[92]	1.615	[41]
#9	[29]	[30]	4.016	[102]	1.812	[46]
#10	[32]	—	4.488	[114]	2.049	[52]
#11	[36]	[35]	4.921	[125]	2.246	[57.5]
#14	[43]	[45]	5.827	[148]	2.719	[69]
#18	[57]	[55]	7.638	[194]	3.625	[92]



D-360 TAPER-LOCK WELDABLE COUPLER

PRODUCT DESCRIPTION:

The Taper-Lock D-360 weldable couplers provide a convenient means of connecting reinforcing bars to structural steel plates or sections. Shorter than the standard coupler, it has a tapered thread at one end. The other end is welded directly to the steel.

The couplers are produced in either ASTM A576 grade 1045 or ASTM A108 grade C1018.

The Taper-Lock weldable coupler is suitable for welding to structural steels. The load conditions at the connection must be determined by the engineer along with the type and size of weld required. Another important consideration is the type of electrode to be used, which must be matched to the properties of the plate and tube, and to the site conditions under which the welding will be undertaken. Welders should be qualified for the type of weld required.



PRODUCT FEATURES AND BENEFITS:

- The compact design of the coupler ensures suitability for use in confined situations where space is restricted or where the loss of cover must be minimized
- Reduces engineering design time
- Eliminates rebar congestion
- Provides Type 2 splicing capacities (160% F_y) and simplifies load paths
- Meets approval from ICC (ESR 2481), ACI, CalTrans, IBC 2006, and Ministries of Transportation for Ontario and Quebec
- Approved for use in fatigue applications

PRODUCT SPECIFICATIONS:

- Extension of Taper-Lock product line
- Accommodates rebar sizes #4 through #18
- Type 2 Splice (160% of F_y)
- Must be tightened with calibrated torque wrench

PRODUCT CODES

Bar Size			Made in USA ASTM A576, Grade 1045 or ASTM A108, Grade C1018
US	Metric (mm)	CN (m)	
#4	[13]	[10]	128385
#5	[16]	[15]	128386
#6	[19]	[20]	128387
#7	[22]	-	128388
#8	[25]	[25]	128389
#9	[29]	[30]	128390
#10	[32]	-	128391
#11	[36]	[35]	128392
#14	[43]	[45]	128393
#18	[57]	[55]	128394

HOW TO ORDER :

SPECIFY:

1. Quantity
2. Name
3. Rebar size

EXAMPLE:

1. 500 pieces
2. D-360 Taper-Lock® Weldable Coupler
3. #6

Taper-Lock Coupler Torque Chart

Rebar Size			Wrench Setting					
US	Metric (mm)	CN [M]	Small 60th		Medium 200th		Large 300th	
			Imperial	Metric	Imperial	Metric	Imperial	Metric
#4	13mm	[10]	39 lb-ft	53 Nm	33 lb-ft	45 Nm	-	-
#5	16mm	[15]	57 lb-ft	77 Nm	48 lb-ft	66 Nm	62 lb-ft	84 Nm
#6	19mm	[20]	78 lb-ft	106 Nm	66 lb-ft	90 Nm	85 lb-ft	115 Nm
#7	22mm	—	105 lb-ft	143 Nm	90 lb-ft	122 Nm	116 lb-ft	157 Nm
#8	25mm	[25]	139 lb-ft	188 Nm	119 lb-ft	161 Nm	153 lb-ft	207 Nm
#9	29mm	[30]	146 lb-ft	198 Nm	124 lb-ft	167 Nm	159 lb-ft	215 Nm
#10	32mm	—	147 lb-ft	199 Nm	125 lb-ft	170 Nm	162 lb-ft	219 Nm
#11	36mm	[35]	-	-	134 lb-ft	182 Nm	173 lb-ft	234 Nm
#14	43mm	[45]	-	-	147 lb-ft	200 Nm	190 lb-ft	257 Nm
#18	57mm	[55]	-	-	147 lb-ft	200 Nm	190 lb-ft	257 Nm

* Applies to Standard, Transitional, Positional, Flanged, Column Connector, and Weldable couplers based on rebar diameter.

D-368 TAPER-LOCK FORM SAVER

PRODUCT DESCRIPTION:

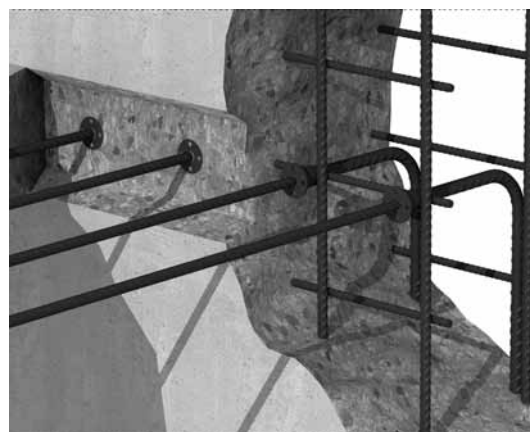
Made in America, taper threaded, mechanical coupler (D368) forged from the structural reinforcement. It includes an integral nailing flange used to attach the coupler to formwork. When used in conjunction with the male threaded Taper-Lock bar (D370), the formwork does not require rebar holes in order to have a continuous path of reinforcement.

PRODUCT FEATURES AND BENEFITS:

- Installation not requiring a torque wrench means it is easier to use and saves time
- Ability to use the flange and nails to attach the system to formwork Eliminates repair costs associated with holes for rebar
- Components can be fabricated to order with straight, bent, hooked, or double ended for versatility to meet project needs
- Taper-Lock tapered threads is designed for hand tightening and faster installation

PRODUCT SPECIFICATIONS:

- Available in rebar sizes #4 (13mm) through #11 (36mm)
- Performs in tension and compression in excess of 160% of specified yield strength of the rebar
- Available in plain rebar finish or epoxy coated
- May contribute to LEED credits



Bar Size Designation			Type 1	Type 2		Type 3			Type 4		R min	Washer Dia.
US	Metric (mm)	CN (M)	A min	A min *	B min	A min	B min	C min	A min	Tolerance		
#4	[13]	[10]	12"	4"	2.5"	4"	2.5"	2.5"	12"	+0 -3/8"	1.25"	1.875"
#5	[16]	[15]	14"	5"	2.5"	5"	3.75"	2.5"	12"	+0 -3/8"	1.875"	2"
#6	[19]	[20]	16"	6"	3"	6"	4.5"	3"	14"	+0 -1/2"	2.25"	2.375"
#7	[22]	—	16"	7"	3.5"	7"	5.25"	3.5"	16"	+0 -5/8"	2.625"	2.5"
#8	[25]	[25]	16"	8"	4"	8"	6"	4"	16"	+0 -3/4"	3"	2.5"
#9	[29]	[30]	16"	9"	4.5"	9"	9.5"	4.5"	16"	+0 -1"	4.75"	2.75"
#10	[32]	—	16"	10"	5"	10"	10.75"	5"	16"	+0 -1"	5.375"	3"
#11	[36]	[35]	16"	11"	5.5"	11"	12"	5.5"	16"	+0 -1"	6"	3.125"

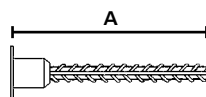
* Tolerance on bending is +0" -1"

HOW TO ORDER :

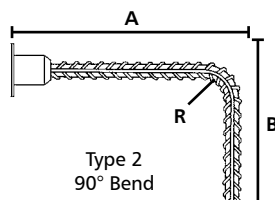
- SPECIFY:**
1. Quantity
 2. Type
 3. Rebar size
 4. Dimensions

EXAMPLE:

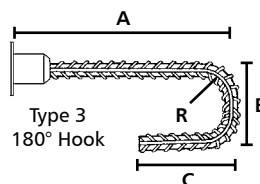
1. 600 pieces
2. Type 1, Single ended
3. #11
4. 36"



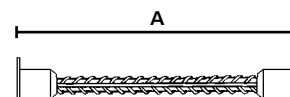
Type 1
Single End



Type 2
90° Bend



Type 3
180° Hook



Type 4
Double End

D-370 TAPER-LOCK THREADED BAR

PRODUCT DESCRIPTION:

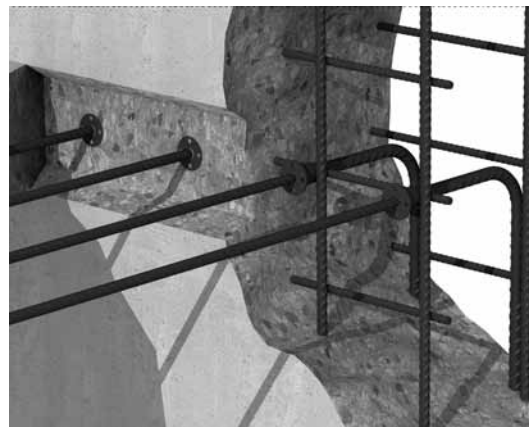
Made in America, taper threaded reinforcing bar (D370) is available in single ended, bent, hook ended, double ended or a fully custom configuration. It requires no torque wrench to assemble and can be used with any Taper-Lock splicing product.

PRODUCT FEATURES AND BENEFITS:

- Installation does not require a torque wrench means it is easier to use and saves time
- Ability to use the flange and nails to attach the system to forms eliminates repair costs associated with holes for rebar
- Components can be fabricated to order with straight, bent, hooked, or double ended for versatility to meet project needs
- Taper-Lock tapered threads is designed for hand tightening and faster installation

PRODUCT SPECIFICATIONS:

- Available in rebar sizes #4 (13mm) through #11 (36mm)
- Performs in tension and compression in excess of 160% of specified yield strength of the rebar
- Available in plain rebar finish or epoxy coated
- May contribute to LEED credits



Bar Size Designation			Type 1	Type 2		Type 3			Type 4	R min
US	Metric (mm)	CN (M)	A min	A min *	B min	A min	B min	C min	A min	
#4	[13]	[10]	9"	4"	2.5"	4"	2.5"	2.5"	12"	1.25"
#5	[16]	[15]	9"	5"	2.5"	5"	3.75"	2.5"	12"	1.875"
#6	[19]	[20]	9.25"	6"	3"	6"	4.5"	3"	14"	2.25"
#7	[22]	—	9.25"	7"	3.5"	7"	5.25"	3.5"	16"	2.625"
#8	[25]	[25]	15.5"	8"	4"	8"	6"	4"	16"	3"
#9	[29]	[30]	15.5"	9"	4.5"	9"	9.5"	4.5"	16"	4.75"
#10	[32]	—	15.75"	10"	5"	10"	10.75"	5"	16"	5.375"
#11	[36]	[35]	16"	11"	5.5"	11"	12"	5.5"	16"	6"

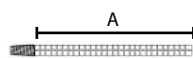
* Tolerance on bending is +0" -1"

HOW TO ORDER :

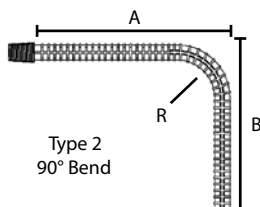
- SPECIFY :
1. Quantity
 2. Type
 3. Rebar size
 4. Dimensions

EXAMPLE :

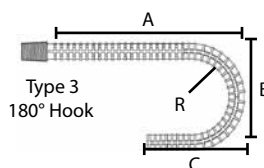
1. 600 pieces
2. Type 1, Single ended
3. #11
4. 36"



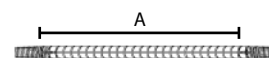
Type 1
Single End



Type 2
90° Bend



Type 3
180° Hook



Type 4
Double End

D-382 TAPER-LOCK THREADED PLUG

The Taper-Lock Threaded Plug fits Dayton Superior Taper-Lock Couplers sizes #4 through #18. The plastic plugs are threaded to provide a positive, secure fit with the coupler. The threaded plugs protect the internal threads of the coupler from external factors such as concrete and water. The plugs have a notch in the top surface for easy removal.

Coupler Size	Product Code	Weight
#4	139963	0.005
#5	139964	0.006
#6	139965	0.006
#7	139966	0.008
#8	139967	0.011
#9	139968	0.017
#10	139969	0.019
#11	139970	0.022
#14	139971	0.024
#18	139972	0.039

