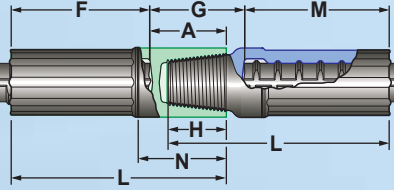
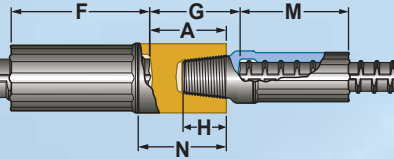


GRIP-TWIST® DATA SHEET — Dimensions and Data [inch-pound units]

TYPE 2 TAPER THREADED GRIP-TWIST



TYPE 2 TRANSITION GRIP-TWIST

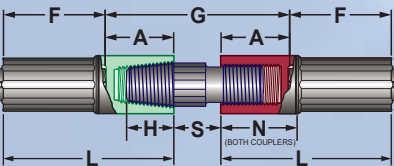


REBAR SIZE US [Metric]	COUPLER OUTSIDE DIAMETER (in.)	COUPLER LENGTH AFTER SWAGING L (in.)
#3 [10]	3/4	2 7/16
#4 [13]	7/8	2 15/16
#5 [16]	1 1/8	3 5/8
#6 [19]	1 3/8	4 5/16
#7 [22]	1 9/16	5
#8 [25]	1 3/4	5 11/16
#9 [29]	1 15/16	6 1/2
#10 [32]	2 3/16	7 1/4
#11 [36]	2 3/8	7 5/8
#14 [43]	2 7/8	9 3/8
#18 [57]	3 7/8	12 3/16

REBAR SIZE	FEMALE COUPLER PRODUCT CODE	MALE COUPLER PRODUCT CODE	TAPER GRIP-TWIST COLOR CODE	COUPLER WEIGHT (lb)		DIMENSIONS (inches)					
				FEMALE	MALE	BAR INSERTION after swaging		REBAR GAP	MALE INSERTION	END ALLOWANCE	Non-Swaged LENGTH
						F	M	G	H	A	N
3	TT3F	TT03M	Orange	0.20	0.16	1 3/8	1 3/8	1 1/2	9/16	1 1/16	1 3/16
4	TT4F	TT04M	Pink	0.27	0.26	1 3/4	1 3/4	1 5/8	3/4	1 3/16	1 5/16
5	TT5F	TT05M	Red	0.53	0.50	2 1/4	2 1/4	1 7/8	15/16	1 3/8	1 9/16
6	TT6F	TT06M	Yellow	1.00	0.95	2 5/8	2 5/8	2 1/8	1 1/8	1 5/8	1 13/16
7	TT7F	TT07M	Blue	1.50	1.40	3 1/8	3 1/8	2 1/2	1 5/16	1 7/8	2 1/8
8	TT8F	TT08M	Black	2.15	2.00	3 1/2	3 1/2	2 7/8	1 1/2	2 1/8	2 3/8
9	TT9F	TT09M	Red	2.90	2.85	4	4	3 1/4	1 3/4	2 7/16	2 3/4
10	TT10F	TT10M	Yellow	4.10	4.00	4 3/8	4 3/8	3 5/8	2	2 13/16	3 3/8
11	TT11F	TT11M	Blue	5.00	5.05	4 3/4	4 3/4	3 1/2	2 1/8	2 13/16	3 3/16
14	TT14F	TT14M	Pink	9.10	9.25	6	6	4 3/8	2 1/2	3 3/8	3 7/8
18	TT18F	TT18M	Red	22.1	22.4	7 3/4	7 5/8	5 5/8	3 1/4	4 7/16	5 1/16

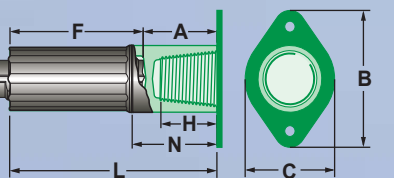
REBAR SIZE	FEMALE COUPLER PRODUCT CODE	MALE COUPLER PRODUCT CODE	COLOR CODE		COUPLER WEIGHT (lb)		DIMENSIONS (inches)					
			TAPER FEMALE	TAPER MALE	FEMALE	MALE	BAR INSERTION after swaging		REBAR GAP	MALE INSERTION	END ALLOWANCE	Non-Swaged LENGTH
							F	M	G	H	A	N
4/3	TT04/03F	TT03M	Pink	Orange	0.35	0.17	1 3/4	1 3/8	1 5/8	9/16	1 3/16	1 5/16
5/4	TT05/04F	TT04M	Red	Pink	0.63	0.30	2 1/4	1 3/4	1 7/8	3/4	1 3/8	1 9/16
6/4	TT06/04F	TT04M	Yellow	Pink	1.12	0.30	2 3/4	1 3/4	2 1/8	3/4	1 9/16	1 13/16
6/5	TT06/05F	TT05M		Red	1.06	0.52		2 3/16	2 1/8	15/16		
7/5	TT07/05F	TT05M	Blue	Red	1.66	0.52	3 1/8	2 3/16	2 3/8	15/16	1 7/8	2 1/8
7/6	TT07/06F	TT06M		Yellow	1.56	0.90		2 5/8	2 1/2	1 1/8		
8/5	TT08/05F	TT05M	Black	Red	2.51	0.52	3 1/2	2 3/16	2 5/8	15/16	2 1/8	2 3/8
8/6	TT08/06F	TT06M		Yellow	2.42	0.90		2 5/8	2 3/4	1 1/8		
8/7	TT08/07F	TT07M	Red	Blue	2.28	1.40	4	3 1/16	2 7/8	1 5/16	2 7/16	2 3/4
9/5	TT09/05F	TT05M		Red	3.52	0.52		2 3/16	3	15/16		
9/6	TT09/06F	TT06M	Yellow	Yellow	3.43	0.90	4 1/2	2 5/8	3	1 1/8	2 3/4	3 1/8
9/7	TT09/07F	TT07M		Blue	3.29	1.40		3 1/16	3 1/8	1 5/16		
9/8	TT09/08F	TT08M	Blue	Black	3.10	2.00	4 7/8	3 1/2	3 1/4	1 1/2	2 3/4	3 1/8
10/6	TT10/06F	TT06M		Yellow	4.90	0.90		3 1/2	3 3/8	1 1/8		
10/7	TT10/07F	TT07M	Black	Blue	4.77	1.40	4 1/4	3 1/16	3 3/8	1 5/16	2 3/4	3 1/8
10/8	TT10/08F	TT08M		Yellow	4.57	2.00		3 1/2	3 1/2	1 1/2		
10/9	TT10/09F	TT09M	Blue	Red	4.30	2.85	4 7/8	3 15/16	3 5/8	1 3/4	2 3/4	3 1/8
11/7	TT11/07F	TT07M		Blue	6.05	1.40		3 1/16	3 3/8	1 5/16		
11/8	TT11/08F	TT08M	Pink	Black	5.85	2.00	4 1/4	3 1/2	3 1/2	1 1/2	2 13/16	3 1/4
11/9	TT11/09F	TT09M		Blue	5.58	2.85		3 15/16	3 5/8	1 3/4		
11/10	TT11/10F	TT10M	Red	Yellow	5.24	4.00	5	4 3/8	3 3/4	2	3 3/8	4
14/7	TT14/07F	TT07M		Blue	8.74	1.40		3 1/16	3 1/2	1 5/16		
14/8	TT14/08F	TT08M	Pink	Black	8.55	2.00	4 1/4	3 1/2	3 5/8	1 1/2	2 13/16	3 1/4
14/9	TT14/09F	TT09M		Blue	8.27	2.85		3 15/16	3 5/8	1 3/4		
14/10	TT14/10F	TT10M	Red	Yellow	7.93	4.00	5	4 3/8	3 3/4	2	3 3/8	4
14/11	TT14/11F	TT11M		Blue	7.56	5.00		4 13/16	3 5/8	2 1/8		
18/9	TT18/09F	TT09M	Red	Red	19.1	2.85	5	3 15/16	4 1/4	1 3/4	3 3/8	4
18/10	TT18/10F	TT10M		Yellow	18.8	4.00		4 3/8	4 1/4	2		
18/11	TT18/11F	TT11M	Pink	Blue	18.4	5.00	5	4 13/16	4 1/8	2 1/8	3 3/8	4
18/14	TT18/14F	TT14M		Yellow	17.3	9.10		5 7/8	4 1/2	2 1/2		

TYPE 2 GRIP-TWIST POSITION COUPLER



REBAR SIZE	FEMALE POSITION PRODUCT CODE	STUD PRODUCT CODE	POSITION TAPER GRIP-TWIST COLOR CODE	COUPLER WEIGHT (lb)		DIMENSIONS (inches)					
				Taper FEMALE	POSITION w/ Stud	BAR INSERTION after swaging	REBAR GAP	TAPER MALE INSERTION	END ALLOWANCE	Non-Swaged LENGTH	SPACE after assembly
						F	G	H	A	N	S
5	05PF	TT05RP	Red	0.53	0.90	2 1/4	3 7/8	15/16	1 3/8	1 9/16	1 1/8
6	06PF	TT06RP	Yellow	1.00	1.60	2 5/8	4 3/8	1 1/8	1 5/8	1 13/16	1 1/4
7	07PF	TT07RP	Blue	1.50	2.55	3 1/8	5 3/8	1 5/16	1 7/8	2 1/8	1 5/8
8	08PF	TT08RP	Black	2.10	3.45	3 1/2	5 3/4	1 1/2	2 1/8	2 3/8	1 1/2
9	09PF	TT09RP	Red	2.85	4.85	4	6 1/2	1 3/4	2 7/16	2 3/4	1 5/8
10	10PF	TT10RP	Yellow	4.05	6.95	4 1/2	7 3/8	2	2 13/16	3 1/8	1 7/8
11	11PF	TT11RP	Blue	4.90	8.80	4 7/8	7 1/4	2 1/8	2 13/16	3 3/16	1 3/4
14	14PF	TT14RP	Pink	9.07	15.3	6	8 3/4	2 1/2	3 3/8	3 7/8	2 1/8
18	18PF	TT18RP	Red	22.5	35.0	7 7/8	10 3/4	3 1/4	4 7/16	5 1/16	2 1/8

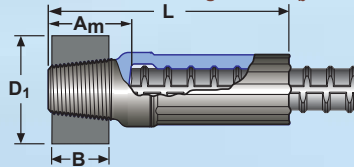
TYPE 2 GRIP-TWIST FLANGED COUPLER



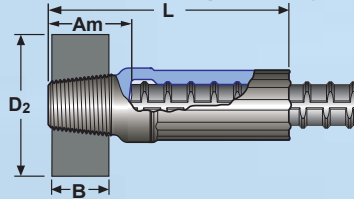
REBAR SIZE	FEMALE FLANGED PRODUCT CODE	TAPER GRIP-TWIST COLOR CODE	FEMALE COUPLER PLUS FLANGE WEIGHT (lb)	DIMENSIONS (inches)					
				BAR INSERTION after swaging	FLANGE HEIGHT	FLANGE WIDTH	MALE INSERTION	END ALLOWANCE	Non-Swaged LENGTH
				F	B	C	H	A	N
4	TT04FWFL	Pink	0.33	1 3/4	1 15/16	1 3/8	3/4	1 3/16	1 5/16
5	TT05FWFL	Red	0.58	2 1/4	2 3/8	1 5/8	15/16	1 3/8	1 9/16
6	TT06FWFL	Yellow	1.05	2 5/8	2 3/4	1 7/8	1 1/8	1 5/8	1 13/16
7	TT07FWFL	Blue	1.56	3 1/8	2 15/16	2 1/16	1 5/16	1 7/8	2 1/8
8	TT08FWFL	Black	2.22	3 1/2	3 1/4	2 1/4	1 1/2	2 1/8	2 3/8
9	TT09FWFL	Red	2.97	4	3 7/16	2 3/8	1 3/4	2 7/16	2 3/4
10	TT10FWFL	Yellow	4.20	4 3/8	3 11/16	2 5/8	2	2 13/16	3 1/8
11	TT11FWFL	Blue	5.10	4 3/4	3 3/4	2 3/4	2 1/8	2 13/16	3 3/16

GRIP-TWIST® Mechanical Anchorage — Dimensions and Data [inch-pound units]

TAPER THREADED DoughNUT 5A_b



TAPER THREADED DoughNUT 10A_b

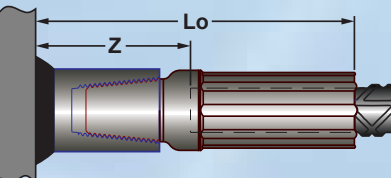
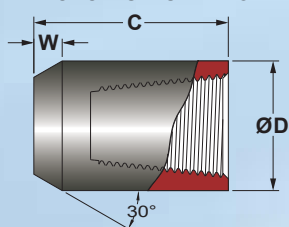


Rebar Size US [Metric]	Male Coupler Product Code	Coupler Length after Swaging L (in.)	End Allowance Am (in.)	Thickness B (in.)	TDS Head Product Code	Head Diameter & Weight*		TDX Head Product Code	Head Diameter & Weight**	
						TDS Series [5Ab]			TDX Series [10Ab]	
						D1 (in.)	Wt (lb.)		D2 (in.)	Wt (lb.)
#4 [13]	TT04M	2 15/16	1 3/16	3/4	04TDS	1 1/4	0.20	04TDX	1 3/4	0.45
#5 [16]	TT05M	3 5/8	1 3/8	7/8	05TDS	1 1/2	0.40	05TDX	2 1/8	0.85
#6 [19]	TT06M	4 5/16	1 5/8	15/16	06TDS	1 7/8	0.55	06TDX	2 1/2	1.15
#7 [22]	TT07M	5	1 7/8	1 1/4	07TDS	2 1/8	1.00	07TDX	2 7/8	2.05
#8 [25]	TT08M	5 11/16	2 1/8	1 5/16	08TDS	2 3/8	1.35	08TDX	3 1/4	2.75
#9 [29]	TT09M	6 1/2	2 7/16	1 1/2	09TDS	2 3/4	1.90	09TDX	3 3/4	4.25
#10 [32]	TT10M	7 1/4	2 13/16	1 5/8	10TDS	3	2.35	10TDX	4 1/4	5.60
#11 [36]	TT11M	7 5/8	2 13/16	1 3/4	11TDS	3 3/8	3.50	11TDX	4 5/8	7.70
#14 [43]	TT14M	9 3/8	3 7/16	2 1/8	14TDS	4	5.50	14TDX	5 1/2	12.4
#18 [57]	TT18M	12 3/16	4 9/16	2 3/4	18TDS	5 1/2	13.5	18TDX	7 1/2	29.4

* Head Dimensions meet ASTM A970, Class A & HA

** Head Bearing Area is approximately 10 x Rebar Area

TYPE 2 GRIP-TWIST STRUCTURAL CONNECTOR



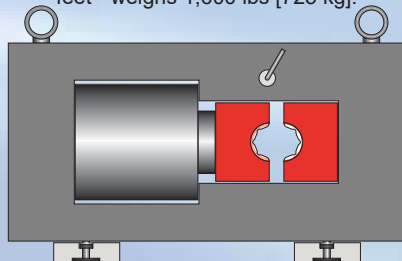
Rebar Size US [Metric]	Structural Connector Product Code	Taper Grip-Twist Color Code	Structural Connector Weight (lbs.)	DIMENSIONS (inches)				
				Structural Connector Outside Dia. D	Structural Connector Length C	Weld Bevel Length W	Gap Z	Overall Length Lo
#4 [13]	TT04SC	Pink	0.15	7/8	1 3/8	3/16	1 3/4	3 1/2
#5 [16]	TT05SC	Red	0.30	1 1/8	1 11/16	1/4	2 1/8	4 5/16
#6 [19]	TT06SC	Yellow	0.60	1 3/8	2	1/4	2 1/2	5 1/8
#7 [22]	TT07SC	Blue	0.85	1 9/16	2 5/16	5/16	2 15/16	6
#8 [25]	TT08SC	Black	1.15	1 3/4	2 5/8	3/8	3 5/16	6 13/16
#9 [29]	TT09SC	Red	1.60	1 15/16	3	7/16	3 13/16	7 3/4
#10 [32]	TT10SC	Yellow	2.25	2 3/16	3 3/8	1/2	4 3/16	8 9/16
#11 [36]	TT11SC	Blue	2.75	2 3/8	3 9/16	9/16	4 1/2	9 3/8
#14 [43]	TT14SC	Pink	5.05	2 7/8	4 3/8	11/16	5 3/8	11 1/4
#18 [57]	TT18SC	Red	11.75	3 13/16	5 3/4	7/8	7 1/16	14 11/16

GRIP-TWIST® — Equipment and Installation

A Bench Press BP2600 fitted with a two-piece die set and powered by an electrically-driven hydraulic pump is used by the rebar fabricator to efficiently swage Grip-Twist® coupler components. The equipment operator depresses a foot control to actuate the system. As the ram extends and pushes the dies towards each other, the coupler component is forced to deform around the rebar and interlock with the bar profile. When a swaging bite has been completed, a pressure switch automatically stops the process and the operator retracts the ram for the next bite. For ease of use, swaging dies are color coded and stamped with a serial number that indicates the rebar and coupler size. Color codes are shown on Grip-Twist® Dimensions and Data Charts. *NOTE: In lieu of shop installation, it may sometimes be appropriate to use BPI-Grip field-swaging equipment such as press models BG1140M or BG750M - contact BPI for assistance with your application.*

BP2600

Bench press for swaging all sizes up to No. 18 [Ø 57mm]. Double acting cylinder produces 300 tons of force connected to 10 or 15 hp pump for high fabrication shop productivity - includes foot control, lifting eyes and leveling feet - weighs 1,600 lbs [725 kg].



BPI® Equipment is available for lease or purchase. Equipment must be used in accordance with manuals, lease agreements, manufacturers' directions and all safety instructions.

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BarSplice Products, Inc., 4900 Webster Street, Dayton OH 45414, USA

•Tel: (937) 275-8700 •Fax: (937) 275-9566 •E-mail: bar@barsplice.com

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