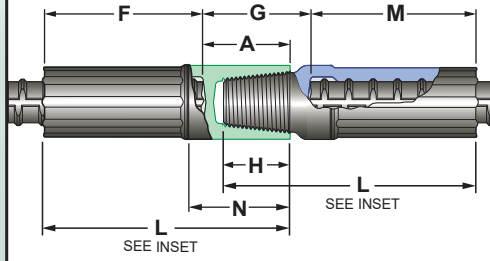


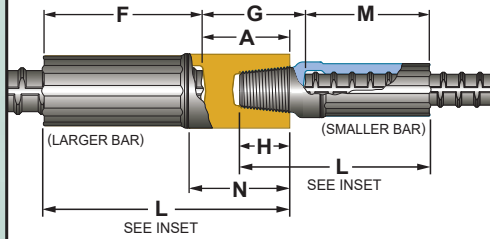
TAPER THREADED GRIP-TWIST®



REBAR SIZE mm [CAN]	TTGT PRODUCT CODE		TAPER THRD. GRIP-TWIST COLOR CODE*	COUPLER WEIGHT (kg)		DIMENSIONS (mm)					
	FEMALE	MALE		FEMALE	MALE	BAR INSERTION (AFTER SWAGING)		REBAR GAP G	MALE INSERTION H	END ALLOWANCE A	NON-SWAGED LENGTH N
						F	M				
10	TT03F	TT03M	ORANGE	0.09	0.08	35	35	38	14	27	30
[10M]	10M-TTF	10M-TTM	PINK	0.14	0.14	45	45	41	19	30	33
12	TT04F	TT04M	PINK	0.12	0.12	45	45	41	19	30	33
16 [15M]	TT05F	TT05M	RED	0.24	0.23	57	57	48	23	35	40
20 [20M]	TT06F	TT06M	YELLOW	0.45	0.43	67	67	54	29	41	46
22	TT07F	TT07M	BLUE	0.68	0.64	79	79	64	33	48	54
25 [25M]	TT08F	TT08M	BLACK	0.96	0.92	89	89	73	38	54	60
28	TT09F	TT09M	RED	1.30	1.31	102	102	83	45	62	70
[30M]	30M-TTF	30M-TTM	RED	1.22	1.24	102	102	83	45	62	70
32	TT10F	TT10M	YELLOW	1.86	1.86	111	111	92	51	71	79
36 [35M]	TT11F	TT11M	BLUE	2.22	2.31	121	121	89	54	71	81
38	TT12F	TT12M	BLACK	3.44	3.13	125	125	100	56	78	87
40	TT13F	TT13M	BLACK	3.65	3.54	135	135	105	60	83	92
43 [45M]	TT14F	TT14M	PINK	4.08	4.17	152	152	111	64	86	98
50	TT16F	TT16M	GRAY	6.45	6.50	170	170	136	73	105	121
57 [55M]	TT18F	TT18M	RED	9.84	9.52	197	194	143	83	110	129
63	TT20F	TT20M	YELLOW	17.6	17.3	222	222	184	111	148	173

ALL DIMENSIONS ARE APPROXIMATE

GRIP-TWIST® TRANSITION SERIES



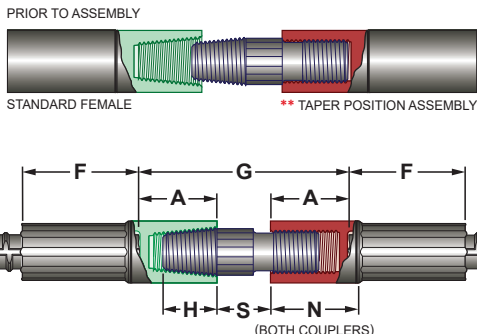
REBAR SIZE (lg/sm)	TTGT PRODUCT CODE		TTGT TRANS. COLOR CODE*		COUPLER WEIGHT (kg)		DIMENSIONS (mm)					
	TRANS. FEMALE	TAPER MALE	TRANS. FEMALE	TAPER MALE	FEMALE	MALE	BAR INSERTION (AFTER SWAGING)		REBAR GAP G	MALE INSERTION H	END ALLOWANCE A	NON-SWAGED LENGTH N
							F	M				
12/10	TT04/03F	TT03M	PINK	ORANGE	0.14	0.08	44	35	41	41	30	33
16/12	TT05/04F	TT04M	RED	PINK	0.27	0.12	57	44	48	19	35	40
20/12	TT06/04F	TT04M	YELLOW	PINK	0.52	0.12	70	44	54	19	40	46
20/16	TT06/05F	TT05M		RED	0.49	0.23		57	54	24		
22/16	TT07/05F	TT05M	BLUE	RED	0.78	0.23	79	57	60	24	48	54
22/20	TT07/06F	TT06M		YELLOW	0.73	0.43		67	64	29		
25/16	TT08/05F	TT05M	BLACK	RED	1.13	0.23	89	57	67	24	54	60
25/20	TT08/06F	TT06M		YELLOW	1.09	0.43		67	70	29		
25/22	TT08/07F	TT07M	RED	BLUE	1.02	0.64	102	78	73	33	62	70
28/16	TT09/05F	TT05M		RED	1.61	0.23		57	76	24		
28/20	TT09/06F	TT06M	RED	YELLOW	1.56	0.43	102	67	76	29	62	70
28/22	TT09/07F	TT07M		BLUE	1.50	0.64		78	79	33		
28/25	TT09/08F	TT08M	RED	BLACK	1.42	0.92	102	89	83	38	62	70
30M/20M	30M/06F	TT06M		YELLOW	1.50	0.43		67	76	29		
32/20	TT10/06F	TT06M	YELLOW	YELLOW	2.27	0.43	114	67	86	29	70	79
32/22	TT10/07F	TT07M		BLUE	2.20	0.64		78	86	33		
32/25	TT10/08F	TT08M	YELLOW	BLACK	2.13	0.92	114	89	89	38	70	79
32/29	TT10/09F	TT09M		RED	1.99	1.31		100	92	44		
36/16	TT11/05F	TT05M	BLUE	RED	2.12	0.23	124	57	49	24	38	48
36/20	TT11/06F	TT06M		YELLOW	2.08	0.43		67	51	29		
36/22	TT11/07F	TT07M	BLUE	BLUE	2.72	0.64	102	78	86	33	70	79
36/25	TT11/08F	TT08M		BLACK	2.64	0.92		89	89	38		
36/29	TT11/09F	TT09M	RED	RED	2.51	1.31	102	99	92	44	62	70
35M/30M	TT11/09F	30M-TTM		RED	2.51	1.24		99	92	44		
36/32	TT11/10F	TT10M	BLACK	YELLOW	2.35	1.86	102	111	95	51	73	83
38/25	TT12/08F	TT08M		BLACK	3.44	0.92		89	95	38		
38/32	TT12/10F	TT10M	BLACK	YELLOW	3.15	1.86	102	111	95	51	73	83
40/25	TT13/08F	TT08M		BLACK	3.42	0.92		89	95	38		
40/32	TT13/10F	TT10M	BLACK	YELLOW	3.12	1.86	102	111	95	51	73	83
43/22	TT14/07F	TT07M		BLUE	3.94	0.64		78	89	33		
43/25	TT14/08F	TT08M	PINK	BLACK	3.86	0.92	114	89	92	38	72	83
43/29	TT14/09F	TT09M		RED	3.73	1.31		100	92	44		
43/32	TT14/10F	TT10M	RED	YELLOW	3.58	1.86	127	111	95	51	86	102
43/36	TT14/11F	TT11M		BLUE	3.41	2.31		122	92	54		
57/25	TT18/08F	TT08M	RED	BLACK	8.76	0.92	102	89	102	38	110	129
57/29	TT18/09F	TT09M		RED	8.21	1.31		100	108	44		
57/32	TT18/10F	TT10M	RED	YELLOW	8.08	1.86	127	111	108	51	86	102
57/36	TT18/11F	TT11M		BLUE	7.90	2.31		123	105	54		
57/43	TT18/14F	TT14M	PINK	7.40	4.17	149	114	64				

ALL DIMENSIONS ARE APPROXIMATE - OTHER TRANSITION SIZES AVAILABLE UPON REQUEST

TTGT DIAMETERS AND LENGTHS

REBAR SIZE METRIC mm [CAN]	COUPLER OUTSIDE DIAMETER (mm)	COUPLER LENGTH (AFTER SWAGING) 'L' (mm)
10	19	61
[10M]	22	75
12	22	75
16 [15M]	29	92
20 [20M]	35	110
22	40	127
25 [25M]	45	145
28	49	165
[30M]	49	165
32	56	184
36 [35M]	60	194
38	70	204
40	70	218
43 [45M]	73	238
50	86	275
57 [55M]	98	310
63	116	350

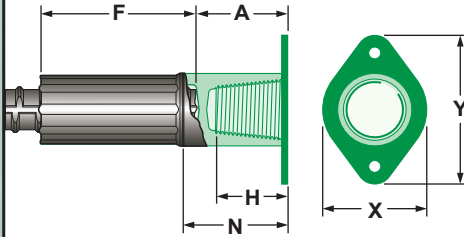
GRIP-TWIST® POSITION SERIES



REBAR SIZE mm [CAN]	TTGT PRODUCT CODE		TTGT POSITION COLOR CODE*	COUPLER WEIGHT (kg)		BAR INSERTION (AFTER SWAGE) F	SPACE (AFTER ASSY) S	DIMENSIONS (mm)			
	POSITION COUPLER	STUD		FEMALE	POSITION w/ STUD			REBAR GAP G	MALE INSERTION H	END ALLOWANCE A	NON-SWAGED LENGTH N
10	03PF	TT03RP	ORANGE	0.09	0.15	35	30	84	14	27	30
[10M]	10M-PF	TT04RP	PINK	0.14	0.23	45	30	90	19	30	33
12	04PF	TT04RP	PINK	0.12	0.22	45	30	90	19	30	33
16 [15M]	05PF	TT05RP	RED	0.24	0.40	57	29	98	23	35	40
20 [20M]	06PF	TT06RP	YELLOW	0.45	0.72	67	32	111	29	41	46
22	07PF	TT07RP	BLUE	0.68	1.14	79	41	137	33	48	54
25 [25M]	08PF	TT08RP	BLACK	0.96	1.56	89	38	146	38	54	60
28	09PF	TT09RP	RED	1.30	2.19	102	41	165	45	62	70
[30M]	30M-PF	TT09RP	RED	1.22	2.14	102	41	165	45	62	70
32	10PF	TT10RP	YELLOW	1.86	3.13	111	48	187	51	71	79
36 [35M]	11PF	TT11RP	BLUE	2.22	3.95	124	45	184	54	71	81
38	12PF	TT12RP	BLACK	3.44	5.07	125	48	204	56	78	87
40	13PF	TT13RP	BLACK	3.65	5.74	135	51	217	60	83	92
43 [45M]	14PF	TT14RP	PINK	4.08	6.88	152	54	222	64	86	98
50	16PF	TT16RP	GRAY	6.45	10.7	170	54	264	73	105	121
57 [55M]	18PF	TT18RP	RED	9.84	15.5	197	54	273	83	110	129
63	20PF	TT20RP	YELLOW	17.6	30.0	222	70	365	111	148	173

** EACH TAPER POSITION ASSEMBLY (#TFPA) CONSISTS OF (1) POSITION COUPLER (#PF) AND (1) PRE-INSTALLED STUD (TT#RP) EACH MARKED WITH CODE ABOVE FOR TRACEABILITY

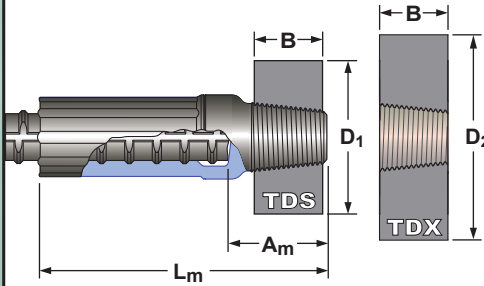
GRIP-TWIST® FLANGED SERIES



REBAR SIZE mm [CAN]	TTGT w/ METAL FLANGE PART CODE	TTGT w/ METAL FLANGE COLOR CODE*	FEM. COUPLER w/ FLANGE WEIGHT (kg)	BAR INSERTION (AFTER SWAGE) F	DIMENSIONS (mm)				
					FLANGE WIDTH X	FLANGE HEIGHT Y	MALE INSERTION H	END ALLOWANCE A	NON-SWAGED LENGTH N
[10M]	10M-TTFWFL	PINK	0.17	45	35	50	19	30	33
12	TT04FWFL	PINK	0.15	45	35	50	19	30	33
16 [15M]	TT05FWFL	RED	0.26	57	41	62	23	35	40
20 [20M]	TT06FWFL	YELLOW	0.49	67	51	75	29	41	46
22	TT07FWFL	BLUE	0.71	79	51	75	33	48	54
25 [25M]	TT08FWFL	BLACK	1.00	89	55	86	38	54	60
28	TT09FWFL	RED	1.32	102	60	86	45	62	70
[30M]	30M-TTFWFL	RED	1.24	102	60	86	45	62	70
32	TT10FWFL	YELLOW	1.91	111	67	94	51	71	79
36 [35M]	TT11FWFL	BLUE	2.27	121	70	95	54	71	81
38	TT12FWFL	BLACK	3.53	125	76	105	56	78	87
40	TT13FWFL	BLACK	3.74	135	76	105	60	83	92
43 [45M]	TT14FWFL	RED	4.13	152	83	108	64	86	98

ALL DIMENSIONS ARE APPROXIMATE – PLASTIC FLANGE ALSO AVAILABLE FOR SIZES 12mm, 10M, 16mm/15M, AND 20mm/20M – ASK FOR DETAILS

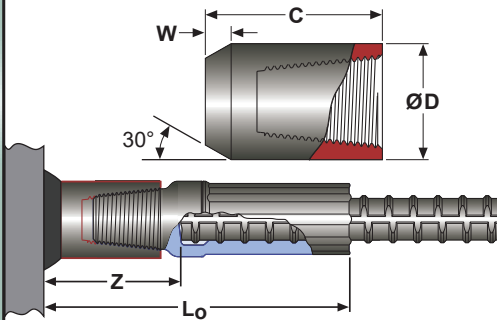
GRIP-TWIST® DoughNUT™
(Meets ASTM A970 Class A & Class HA)



REBAR SIZE mm [CAN]	DoughNUT PART CODE		LENGTH (AFTER SWAGING) Lm (mm)	END ALLOWANCE Am (mm)	THICKNESS (mm) B	HEAD DIAMETER AND WEIGHT			
	TDS	TDX				TDS SERIES [5Ab]		TDX SERIES [10Ab]	
						D1 (mm)	Wt (kg)	D2 (mm)	Wt (kg)
12/[10M]	04TDS	04TDX	75	30	19	35	0.11	45	0.20
16 [15M]	05TDS	05TDX	92	35	23	44	0.23	56	0.39
20 [20M]	06TDS	06TDX	110	41	25	48	0.26	67	0.58
22	07TDS	07TDX	127	48	32	56	0.46	73	0.90
25 [25M]	08TDS	08TDX	145	54	33	62	0.60	86	1.34
28/[30M]	09TDS	09TDX	165	62	38	71	0.89	98	1.96
32	10TDS	10TDX	184	71	41	82	1.31	108	2.54
36 [35M]	11TDS	11TDX	194	71	45	87	1.66	121	3.73
38	12TDS	12TDX	204	78	48	99	2.25	134	4.76
40	13TDS	13TDX	218	83	51	99	2.25	134	4.76
43 [45M]	14TDS	14TDX	238	87	54	108	2.95	146	6.20
50	16TDS	16TDX	275	105	62	124	4.32	166	8.78
57	18TDS	18TDX	310	115	70	140	6.12	191	13.3

ALL DIMENSIONS ARE APPROXIMATE – USED WITH STANDARD TTGT MALE COUPLER

TTGT STRUCTURAL CONNECTOR



REBAR SIZE mm [CAN]	STRUCTURAL CONNECTOR PART CODE	TTGT MALE COLOR CODE*	STRUCTURAL CONNECTOR WEIGHT (kg)	DIMENSIONS (mm)				
				STR. CONN. OUTSIDE DIA D	STR. CONN. LENGTH C	WELD BEVEL LENGTH W	REBAR GAP Z	OVERALL LENGTH Lo
12/[10M]	TT04SC	PINK	0.07	22	35	5	44	89
16 [15M]	TT05SC	RED	0.15	29	43	6	54	110
20	TT06SC	YELLOW	0.26	35	51	6	64	130
22	TT07SC	BLUE	0.38	40	59	8	75	152
25 [25M]	TT08SC	BLACK	0.52	45	67	10	84	173
28/[30M]	TT09SC	RED	0.72	49	76	11	97	197
32	TT10SC	YELLOW	1.02	56	86	13	106	217
36 [35M]	TT11SC	BLUE	1.27	60	92	14	114	238
38	TT12SC	BLACK	2.04	70	105	16	127	251
40	TT13SC	BLACK	2.04	70	105	16	127	262
43 [45M]	TT14SC	PINK	2.31	73	111	17	137	286
50	TT16SC	GRAY	3.50	86	131	19	162	332
57 [55M]	TT18SC	RED	5.58	98	146	22	179	373
63	TT20SC	YELLOW	9.1	116	168	25	205	421

ALL DIMENSIONS ARE APPROXIMATE

TAPER THREADED 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 to indicate 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 specific application.

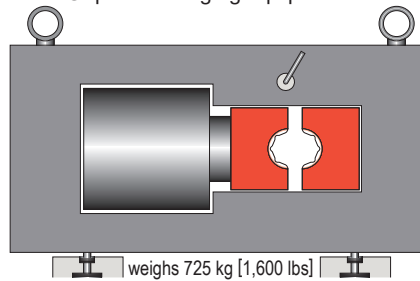
* COLOR CODE OF COUPLER MUST MATCH COLOR OF DIE SET

BP2600

Bench press for swaging all sizes up to Ø 63 mm.

Double acting cylinder produces 272 tonnes of force connected to 10 or 15 hp pump for high fabrication shop productivity.

Press includes foot control, lifting eyes and leveling feet.



weighs 725 kg [1,600 lbs]

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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