

TAPER THREADED GRIP-TWIST

COLD-SWAGED STEEL COUPLER WITH TAPER THREADED ENDS



- **TYPE 2 SPLICE** – ACI 318 Chapter 21 Seismic Design and International Building Code. Develops specified tensile strength of black deformed bars ASTM A 706 or A 615. **Exceeds TYPE 1 requirements.**
- **CALTRANS SERVICE and CALTRANS ULTIMATE** – Meets slip test 670 and capable of developing the actual ultimate strength of black deformed bars ASTM A 706.
- **SEISMIC LOADING** – Tested to withstand plastic strain excursions to 5 x rebar yield strain value and stress reversals in accordance with ICC Acceptance Criteria AC-133, [ICC Report No. ESR-2299](#).
- **NUCLEAR APPLICATIONS** – Swaged splices exceeding a tensile strength of 90,000 psi (150% x specified yield, f_y) when used with ASTM A 615 Grade 60 bar.
- **COMMERCIAL APPLICATIONS** – In accordance with Building Code Requirements for Structural Concrete, ACI 318 Chapter 12, used in columns, beams, walls, mats, tanks, parking garages.
- **DOT PROJECTS and COATED BARS** – Exceeds 125% x f_y and 135% x f_y , Grade 60 when swaged directly over black ASTM A 615 bars, epoxy coated ASTM A 775 bars or galvanized ASTM A 767 bars. Coating removal or shielding is not necessary on the coated bars.

TRANSITION GRIP-TWIST

TRANSITION COLD-SWAGED COUPLER WITH TAPER THREADED ENDS



- **APPLICATIONS** – Anywhere a change of bar size is required, in accordance with Building Code Requirements for Structural Concrete, ACI 318 Chapter 12, typically in columns, walls, parking garages.
- **CONVENIENCE** – Components are color coded to match appropriate swaging dies. Standard MALE couplers are used on smaller bar. Thread protection is included.
- **VERSATILE** – Connect any size bar to any other by this method; typically 1, 2, 3 or 4 bar size changes.
- **TRANSITION-POSITIONS** – Can be achieved using a standard TPA (see below) on the small side and unwinding the pre-assembled stud into the adjoining Transition Female Grip-Twist.
- **TYPE 2 SPLICE** – ACI 318 Chapter 21 Seismic Design and International Building Code. Develops specified tensile strength of the smaller bar ASTM A 706 or A 615. **Exceeds TYPE 1 requirements.**
- **SEISMIC LOADING** – Tested to withstand plastic strain excursions to 5 x rebar yield strain value and stress reversals in accordance with ICC Acceptance Criteria AC-133.
- **DOT PROJECTS and COATED BARS** – Exceeds 125% x f_y and 135% x f_y of the smaller Grade 60 bar when swaged directly over black ASTM A 615 bars, epoxy coated ASTM A 775 bars or galvanized ASTM A 767 bars. Coating removal or shielding is not necessary on the coated bars.

GRIP-TWIST POSITION COUPLER

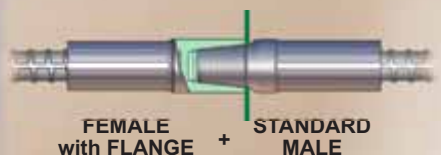
COLD-SWAGED POSITION COUPLER WITH THREADED STUD



- **APPLICATIONS** – Where bars are bent and cannot be rotated to engage the threads, or when bar lengths are long and impractical to rotate.
- **NO ROTATION OF BARS** – Assembly is completed in the field by unwinding a pre-assembled stud from a 'TPA' (Taper Position Assembly) into an adjoining standard Taper Threaded Female Grip-Twist.
- **FOR STANDARD REINFORCING BARS** – ASTM A 706, ASTM A 615, ASTM A 996 and equal black deformed bars – exceeds specified ultimate tensile strength of Grades 40, 50 60 and 75.
- **CONVENIENCE** – Each TPA includes a parallel threaded coupler sleeve and a pre-installed stud that projects from one end. Each stud has an externally rolled thread with an axial taper.
- **TYPE 1 and TYPE 2 SPLICE** – ACI 318 Chapter 21 Develops both 1.25 f_y and the specified tensile strength of black deformed bars ASTM A 706 or A 615.
- **DOT PROJECTS and COATED BARS** – Exceeds 125% x f_y and 135% x f_y , Grade 60 when swaged directly over black ASTM A 615 bars, epoxy coated ASTM A 775 bars or galvanized ASTM A 767 bars. Coating removal or shielding is not necessary on the coated bars.

GRIP-TWIST FLANGED COUPLER

COLD-SWAGED FLANGED COUPLER WITH TAPER THREADED ENDS



- **FOR STANDARD REINFORCING BARS** – ASTM A 706, ASTM A 615, ASTM A 996 and equal black deformed bars – capable of exceeding specified ultimate strength of Grades 40, 50 60 and 75.
- **CONVENIENCE** – Flanged couplers have holes that permit nailing them to formwork. They can be fully embedded in concrete thereby relieving certain constructability problems and potential injuries.
- **NO DRILLING HOLES THROUGH FORMS** – No protruding rebar when concrete is poured. Continuity across construction joint is established when rebar with male coupler is engaged.
- **DOWEL BAR SPLICE** – Ideally suited for dowel bar replacement applications because fabricating shops can utilize their own bars at their own location, including drops.
- **TYPE 1 and TYPE 2 SPLICE** – ACI 318 Chapter 21 Develops both 1.25 f_y and the specified tensile strength of black deformed bars ASTM A 706 or A 615.
- **DOT PROJECTS and COATED BARS** – Exceeds 125% x f_y and 135% x f_y , Grade 60 when swaged directly over black ASTM A 615 bars, epoxy coated ASTM A 775 bars or galvanized ASTM A 767 bars. Coating removal or shielding is not necessary on the coated bars.