



The only 100% Proofed  
Splicing System



**Dextra**



## Product features

Griptec® is a full performance (tension, compression, cyclic, fatigue) mechanical splice designed for the connection of concrete reinforcing bars ASTM A615 & A706 grade 60 in sizes #4 through #18 and EN 10080 grade 500 in sizes Ø 12 through 50 mm.

No room for error! : Systematic proof-testing of each and every bar end produced!

Load testing of the bar end is an integral part of the Griptec® bar end preparation process.

## Benefits

- Each and every connection is proof-tested by pull test during the extrusion cycle.
- No reduction of the nominal cross section area of the bar.
- Standard parallel threads are used, thus avoiding torque wrenching.
- Visual inspection of joints is sufficient.
- Cross threading of parallel threads is impossible. Good fatigue performance thanks to rolled threads.
- Compact design with small outer diameter.

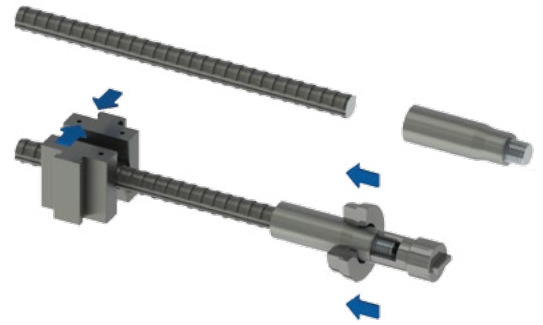
## State of the art Threading Equipment

- High productivity: 30 to 45 seconds per bar end.
- One man operation, fully computerized process.
- Low operational cost.
- Very quick reconfiguration when changing from one bar size to another.
- Pre-programmed setting of extrusion equipment and proof testing parameters for each bar size.
- Fits any reasonable shear cut.
- No dirty lubricant and machining chips.
- Griptec® self-contained extrusion machines are CE-marked as per the European Directive on the safety of machinery and are compliant with OSHA regulations.

## Automatic 2-Steps Process

### STEP 01 Extrusion

- The sleeve is placed over the rebar end and pushed inside the Griptec® machine by the operator. The extrusion cycle then starts automatically.
- The sleeve is then extruded over the bar-end.



### STEP 02 Performance testing

The proof-test is an integral part of the Griptec® bar-end preparation process.

After the sleeve is extruded onto the bar-end, the connection is proof-tested automatically by the Griptec® machine. This confirms the performance above the prescribed design load.



Griptec GP40

## Splicing Methods

### Standard splice

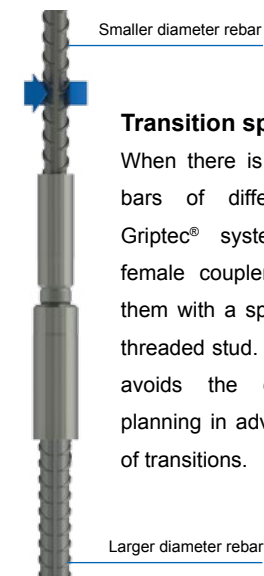
Standard Griptec® splices are achieved by use of a standard female coupler and a standard male coupler of the matching size.



### Position splice

When both bars would be a burden to rotate, the Griptec® splice system uses a "Position set" combined with standard male and female sleeves. This set is constituted of a threaded stud, a position nut and a locknut. The set is screwed inside the female sleeve, and then the nut is screwed back into the male sleeve to accomplish the connection.

When neither bar can be rotated, or if the angular position of the second bar matters, Griptec® position splices type C are the answer.



### Transition splice

When there is a need to splice bars of different sizes, the Griptec® system uses standard female couplers, simply joining them with a special two-stepped threaded stud. This conveniently avoids the difficult task of planning in advance the location of transitions.

### Bridging splice

When the bars cannot be brought butt to butt, Griptec® bridging splices are the answer. This is a variant of the position splice that uses a longer stud.

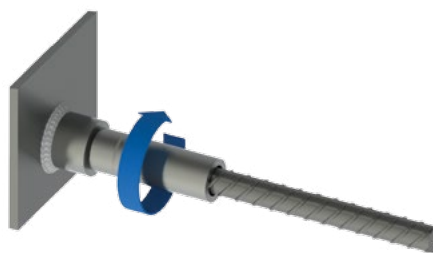
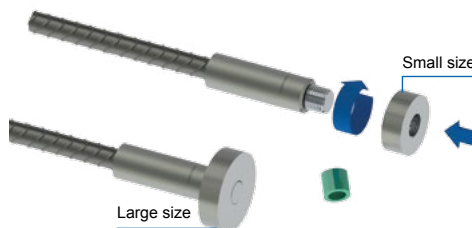
Gaps of up to one bar diameter can be bridged by this system.



### End anchors

An efficient alternative to hooked bars to provide end anchorages in congested areas.

Standard Griptec® mechanical anchorages are circular in shape and have a net bearing area of 9 times the cross-section of the bar, but can also be made to order in other shapes or dimensions to fit the application requirement.



### Weldable couplers

For composite construction where concrete reinforcement bars must be welded to structural steel, Griptec® weldable couplers, specially made from low carbon steel, are available.

## Applications



Slab connection



Wall connection



Vertical connection

## Quality Assurance



**Note :** The information in this catalogue is considered up to date at the time of publication. We reserve the right to make technical and design changes at any time.

Dextra shall not accept liability for the accuracy of the information in this publication or for any printing errors.

## Some Major References



Flamanville nuclear power plant EPR 3, France



Heathrow Terminal 5, U.K.



Commercial presence in more than 55 countries.



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