

GRIP//TEC®

The only 100%-proofed
splicing system



Dextra

www.dextragroup.com



Product features

Griptec® is a full performance (tension, compression, cyclic, fatigue) mechanical splice designed for the connection of concrete reinforcing bars grade 500 in sizes Ø 12 through 50 mm.

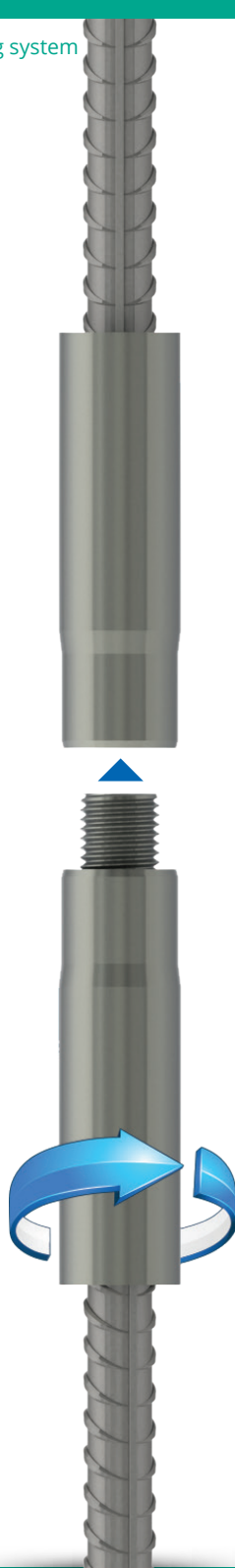
No room for error thanks to a systematic proof-testing of each and every bar end produced!

Benefits

- Each and every connection is proof-tested by pull test during the extrusion cycle.
- No alteration of the bar.
- Standard parallel threads are used: no torque wrenching required and no risk of cross threading.
- Visual inspection of joints is sufficient.
- Good fatigue performance thanks to rolled threads.
- Compact design with small outer diameter.

State of the art rebar preparation equipment

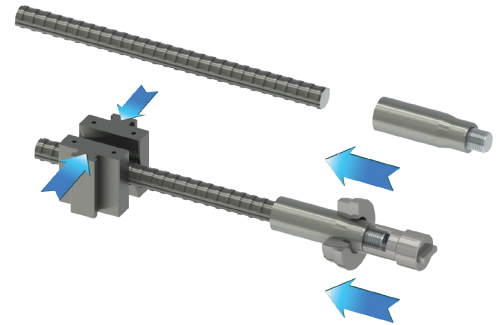
- High productivity: 30 to 38 equipment cycle / bar end.
- One man operation, fully computerized process.
- Low operational cost.
- Very quick reconfiguration when changing from one bar size to another.
- Pre-programmed setting of extrusion equipment and proof testing parameters for each bar size.
- 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

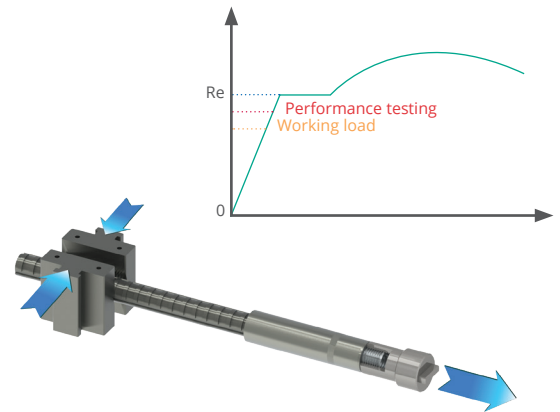
STEP 01 Extrusion

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



STEP 02 Performance testing

Once the sleeve is extruded onto the bar end, the connection is automatically proof-tested by the Griptec® machine. This systematic cycle confirms a performance above the prescribed design load for 100% of bar ends prepared.



Griptec machine

Splicing methods

Standard splice

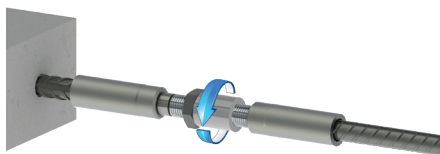
Standard Griptec® splices are achieved by use of a standard female coupler and a standard male coupler of matching size.



Position splice

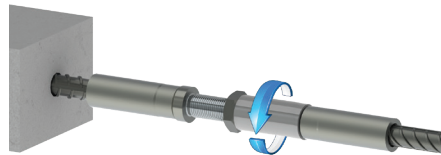
When both bars would be a burden to rotate, the Griptec® splice system uses a "Position set" combined with standard male and female sleeves. This set is composed of a threaded stud, a position nut and a locknut.

The set is first screwed inside the female sleeve, the nut is then screwed back into the male sleeve to complete the connection.



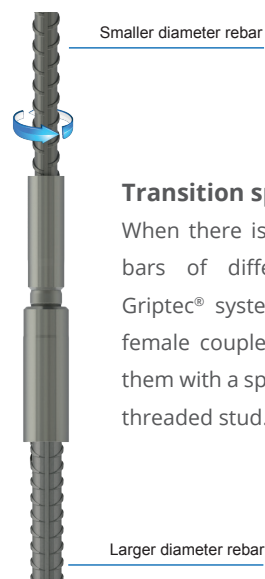
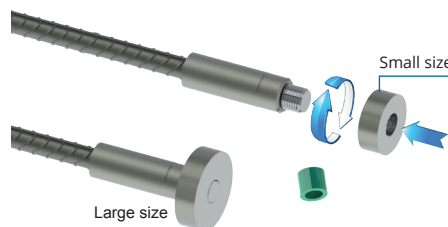
Bridging splice

When the bars cannot be brought butt to butt, Griptec® bridging splice is 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.



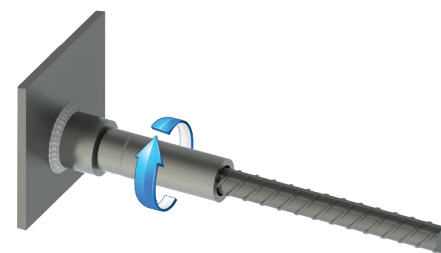
End anchors

An efficient and easy to install alternative to hooked bars to provide end anchorages in congested areas. Griptec® standard circular anchorage heads are available in two sizes with a net bearing area of 4 times or 9 times the cross-section of the bar.



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.



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



Quality assurance



TH006540



QSC-706



1086

002

Approvals & Certifications



N° M02/004



N° Z-1.5-133



N° K56711/01





Flamanville nuclear power plant EPR, France



Heathrow Terminal 5, U.K.



Fuqing reactors 5&6, China



Commercial presence
in more than
55 countries



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