GRIP TEC®

The only 100%-proofed splicing system

Dextra

www.dextragroup.com

GRIP TEC

Product features

Griptec® is a full performance mechanical splice designed for the connection of concrete reinforcing bars in grade 500, from size 12 to 50 mm.

Thanks to the systematic proof-testing process of each bar end produced, there is no room for errors!

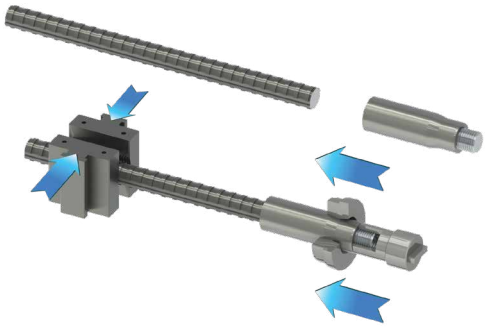
Benefits

- Every connection is proof-tested by a non-destructive tensile 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.
- Excellent fatigue performance thanks to rolled threads.
- Compact design with small outer diameter.

Automatic 2-step process

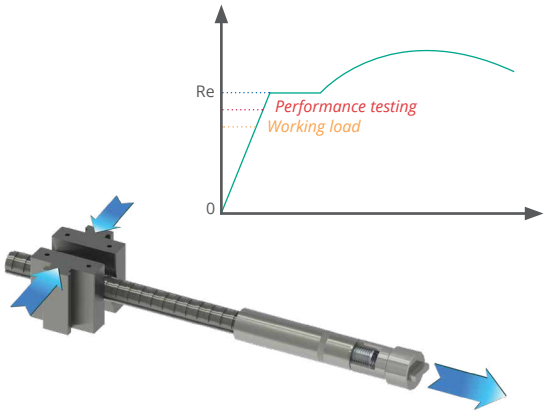
STEP 01 Extrusion

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



STEP 02 Performance testing

After the extrusion, the connection is automatically proof-tested by the Griptec® machine. This systematic cycle confirms a performance above the prescribed design load for all bar ends prepared.



State-of-the-art rebar preparation equipment

- High productivity: 30 - 38 seconds / bar end.
- One-man operation. Fully automated 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.
- Fit 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.

Griptec machine

Splicing methods

Standard splice

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

Position splice

When neither bar can be rotated, the Griptec® splice system uses a "Position set" that connects the standard male and female sleeves. This is composed of a threaded stud, a position nut and a lock nut.

The set is first screwed into the female sleeve, the position nut is then screwed back onto the male sleeve and the lock nut is tightened against the position nut to complete the connection.

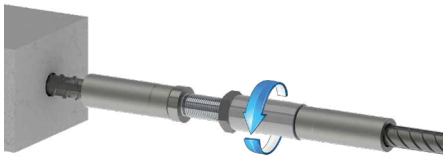
Transition splice

When there is a need to splice bars of different sizes, Griptec® uses standard female couplers, simply joining them with a specific threaded stud.

Bridging splice

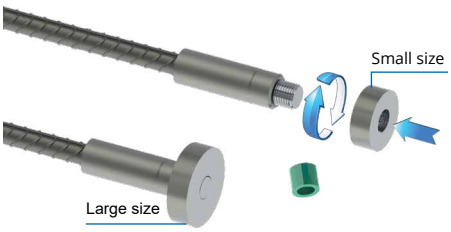
When the bars cannot be brought end to end, Griptec® bridging splice is the answer.

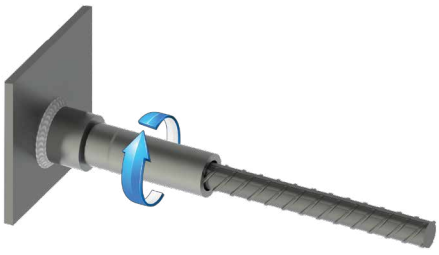
This is a variant of the Position set, with a longer threaded stud. Gaps of up to one bar diameter can be bridged by this set.



End anchors

An efficient and easy-to-install alternative to hooked bars especially in congested areas. Griptec® end anchors are available in two sizes, with a net bearing area of 4 times or 9 times the cross-section of the bar.

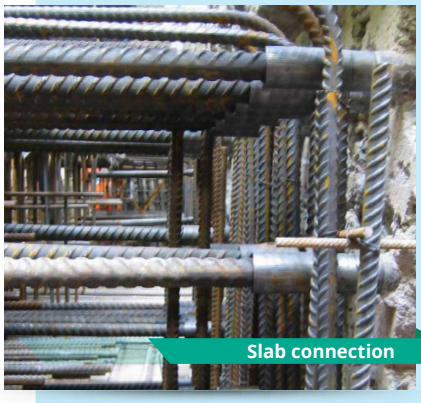




Weldable couplers

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

Applications



Quality assurance

ISO 9001 BUREAU VERITAS Certification — TH015960

ASME — QSC-706

CARES ISO 9001 1086 — UKAS Management Systems 0002

Approvals & Certifications

AFCAB Association Française de Certification des Armatures du Béton — N° M02/004

Deutsches Institut für Bautechnik DIBt — N° Z-1.5-133

bmvit Austrian Ministry for Transport, Innovation and Technology

NSW Government Transport Roads & Maritime Services

CARES Technical Approval 5014 — UKAS Product Certification 0002

Technical Approval certified by CARES under certificate number 5005/ 5014/ 5051/ 5059

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