GRIP TEC®

The only 100%-proofed splicing system

Dextra | SILVA

GRIP TEC

Product features

Griptec® is a full-performance mechanical splice designed for connecting concrete reinforcing bars ranging in size from 12 to 50 mm.

The Griptec® system consists of threaded sleeves that are fixed to the ends of reinforcing bars. The connection is formed through a combination of male and female sleeves. The system utilizes isometric parallel threads, ensuring that its mechanical performance is equal in both compression and tension.
Thanks to the systematic proof-testing process of each bar end produced, there is no room for errors!

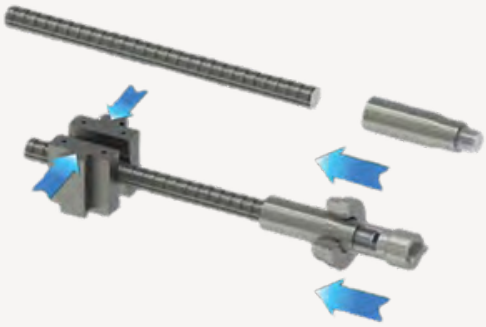
Benefits

- 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.
- All load-bearing elements are individually marked,
- ensuring full traceability of the production batches and raw material lots.

Automatic 2-step process

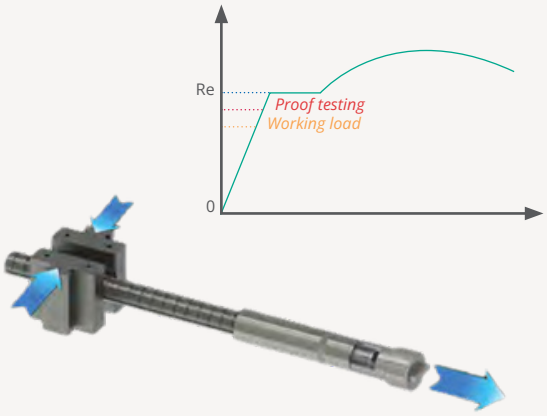
STEP 01 Extrusion

- 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

- Fast cycle time: 20 to 50 seconds per bar end.
- One operator. Fully automated process.
- Fast tool changeover in less than 15 minutes.
- Low operational cost.
- Automatic proof load test of every bar end.
- Pre-programmed setting of extrusion equipment and proof-testing parameters for each bar size.
- Intuitive HMI, multilanguage and password-protected access.
- No dirty lubricant and machining chips.
- CE-marked in compliance with Machinery Directive 2006/42/EC.
- **Dextra Monitoring System (DMS)** allows access to production information anytime and anywhere, facilitating remote reporting and diagnosis.

Griptec® equipment

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.

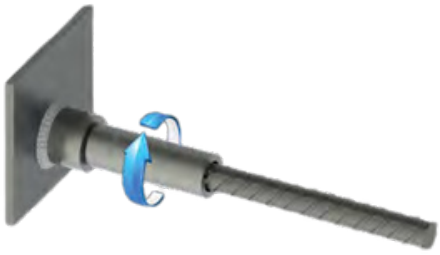
The set is first screwed into the female sleeve, the position nut is then screwed back onto the male sleeve and the lock nut is tightened against the position nut to complete the connection.

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.

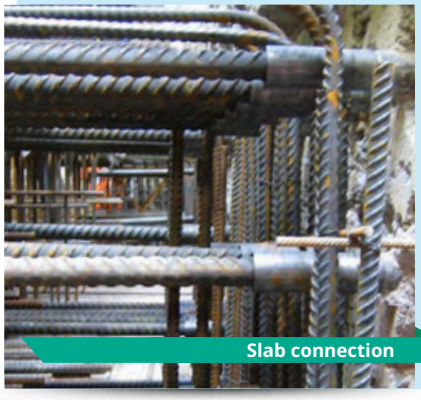
This is a variant of the Position set, with a longer threaded stud. Gaps of up to one bar diameter can be bridged by this set.

Headed Bars
An efficient and easy-to-install alternative to hooked bars especially in congested areas. Griptec® headed bars 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

CERTIFIED ISO 9001 | CERTIFIED ISO 19443 | CARES | UKAS | ASME BPVC.III QSC-706

Environmental Certifications

CERTIFIED ISO 14001 | Green Industry | EPD | EPD Hub

Design Tools

Available on www.dextragroup.com

AUTODESK AUTOCAD | AUTODESK REVIT | Tekla | ALLPLAN

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