ROITEC® Mechanical Splicing System

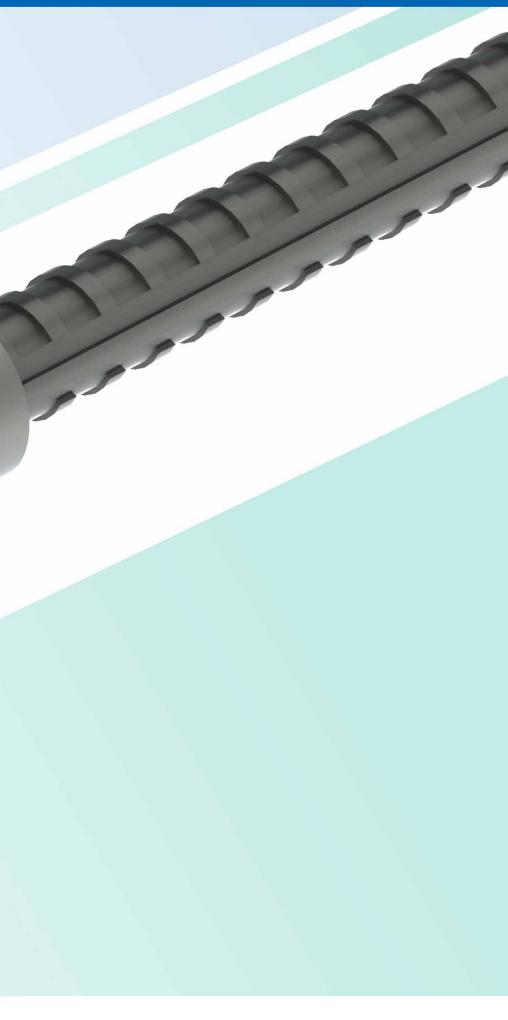


Product features

Rebar preparation

Splicing methods

Applications & Quality



Product features

Rolltec[®] is a rolled parallel threaded mechanical splicing system designed for the connection of concrete reinforcing bars from Ø12 to 50 mm (ASTM #4 to #18).

Rolltec[®] couplers comply with ACI 318, IBC 2006, BS 8110, Eurocode 2, DIN 1045, CalTrans, ASME Sec III Div 2.

Benefits

- Practical and economical alternative to laps.
- Simple process: only one machine, one operator.
- Fast cycle time: less than 30 seconds per thread!
- Same coupler model for standard splicing and position splicing (when none of the rebar can rotate).
- Easy installation, no torque wrench required.
- Shortens construction cycle times.



12/2021 - www.dextragroup.com

Pumarejo Bridge, Colombia

References

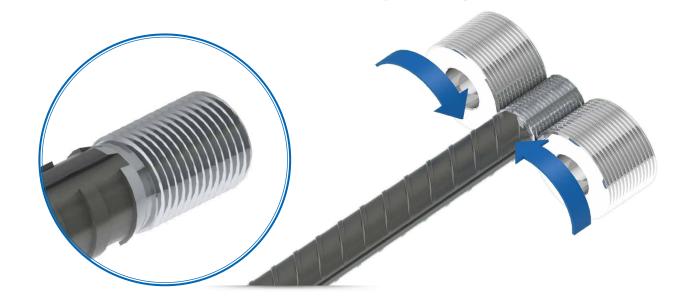
Rebar preparation: A two-step Process

Peeling

The end of the reinforcing bar is peeled.



The peeled end of the reinforcing bar is then threaded by rolling.





Rolltec rebar preparation equipment

Splicing methods

Standard splice (Type A)

Easy connection by bar rotation until full thread engagement. Thanks to the parallel thread:

- No risk of thread mismatch.
- No risk of cross-threading.



Position splice (Type B)

The Bartec[®] position splice, to be used when both bars cannot be rotated, consists of an extended thread on the connecting bar and a standard coupler.

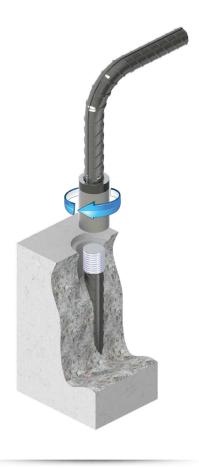
The coupler is fully engaged onto the extended thread of the connecting bar (step 1).

The assembly is completed by butting the bars end to end and screwing the coupler back onto the first bar until full engagement (step 2).



Position splice (Type C)

The assembly method Type C is similar to Type B, with the addition of a lock-nut to maintain the second bar in position.



Splicing methods

Caging splice

To connect cages that have not been pre-fabricated together or sets of bars that cannot be brought butt to butt, the Rolltec® caging assembly is your solution.

Both bars are prepared with a standard Rolltec thread. The rotating elements of the assembly will guarantee thread continuity to easily produce the splice.

Transition splice

When you need to splice bars of different diameters, e.g. 40-32 or 32-25. Rolltec[®] offers transition couplers that conveniently allow such a connection.

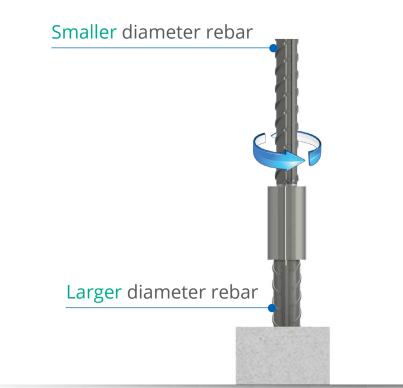
Depending on the situation, it may also be possible to reduce the size of the end of the larger bar and then use a standard coupler.

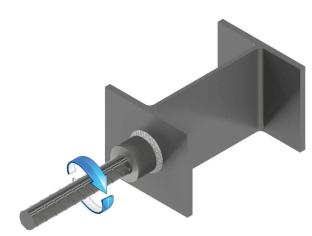
Weldable couplers

For composite structures in which the reinforcement bars must be connected to structural steel, Rolltec[®] weldable couplers provide the ideal solution.

They are specially made from low carbon steel.





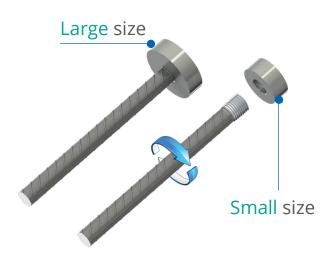


Splicing methods

Headed bars

Also called "End Anchors", they are a highly efficient alternative to hooked bars when end anchorages need to be placed in congested areas.

Rolltec[®] headed bars are round and have a net bearing area of 4 times or 9 times the cross-section of the bar.



Applications



Quality assurance



Approvals & Certifications





N° CL17020493

Design tools

Available on www.dextragroup.com







QSC-706









IAPMO UES 702 & IAPMO UES 789

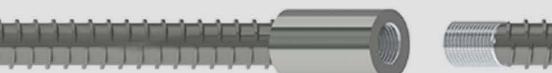






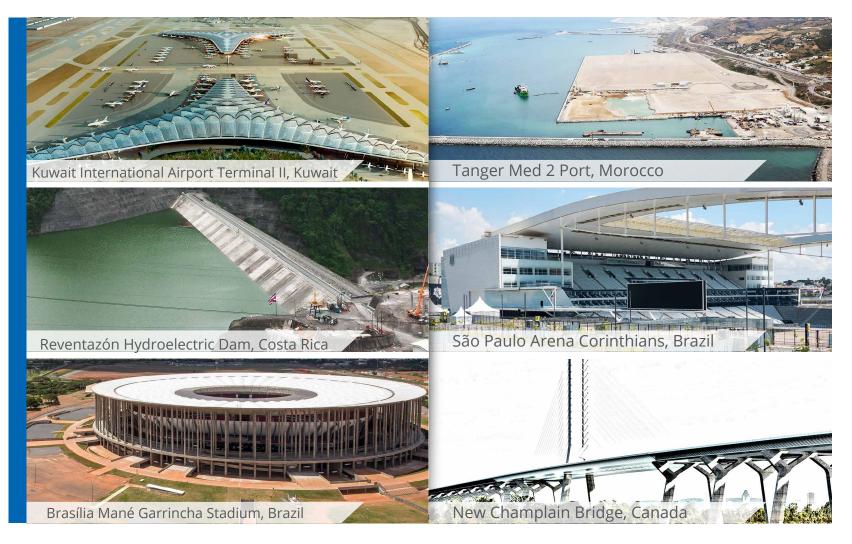
References

7 Dextra | **R** ///**TEC**[•] | Mechanical Splicing System





Project References



Resources













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Product features

Rebar preparation

Splicing methods

Applications & Quality















commercial presence in more than countries 55

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Product features

Rebar preparation

Splicing methods

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References