

RO//TEC®

Mechanical Splicing System



Dextra

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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.

Rebar Preparation: 2-Steps process



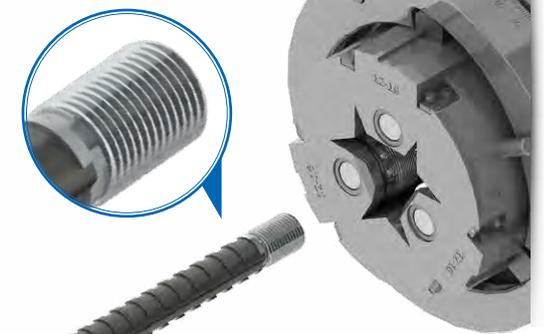
STEP 01 Peeling

The end of the reinforcing bar is peeled.



STEP 02 Thread Rolling

Threads are then formed on the peeled end of reinforcing bar by cold rolling.



Splicing Methods

Standard splice

Easy connection by bar rotation until full thread engagement (type A method).

Thanks to its parallel thread: no risk of mis-match or cross-threading

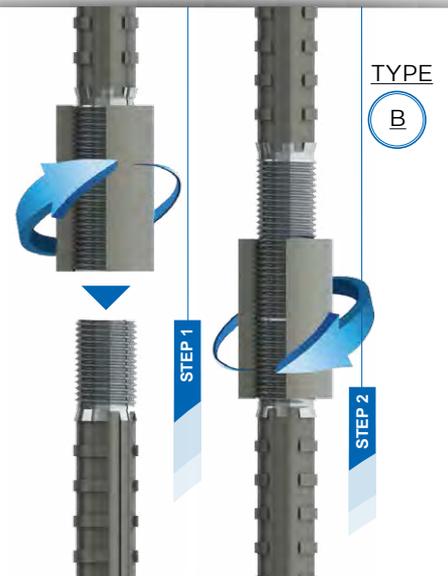


Position splice

Even when both bars cannot be turned, the Rolltec® system uses the same standard coupler.

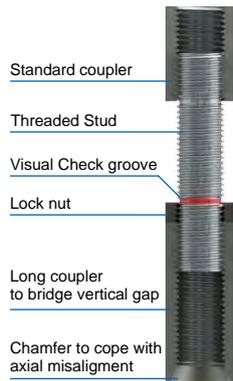
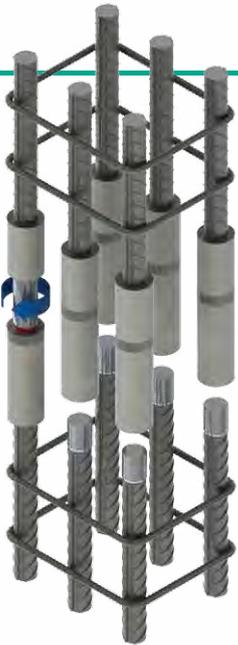
The coupler is fully engaged onto the extended thread of the connecting bar (step 1).

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



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

Applications



Caging splice

To connect cages that haven't been pre-fabricated together or sets of bars that can't be brought butt to butt, Rolltec Caging Splice is your solution.

Both bars are threaded with a standard Rolltec thread, then the free rotating elements of the Caging Splice will restore thread continuity and make the connection.

Transition splice

The Rolltec® system offers special transition couplers between various rebar sizes that conveniently avoid the difficult task of planning in advance the need of transitions.



End anchors

A convenient alternative to hooked bars to provide end anchorages in congested areas. Rolltec® standard anchorage heads are circular and have 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 welded to structural steel, Rolltec® weldable couplers, specially made from low carbon steel, are available.



Column



Slab connection



Piles and cages 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

ROLLTEC®



Tanger Med II Port, Morocco



Brasilia National Stadium, Brazil



Commercial presence in more than 55 countries.



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