



The Ultimate Splicing System



Dextra

www.dextragroup.com

Product features

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

Bartec® couplers are designed and manufactured in compliance with Eurocode 2, BS 8110, DIN 1045, ACI 318, IBC, AASHTO, ASME Sec III Div 2.

Site equipment



The 3 machines necessary to Bartec® system rebar preparation are engineered by Dextra and delivered in a single container.

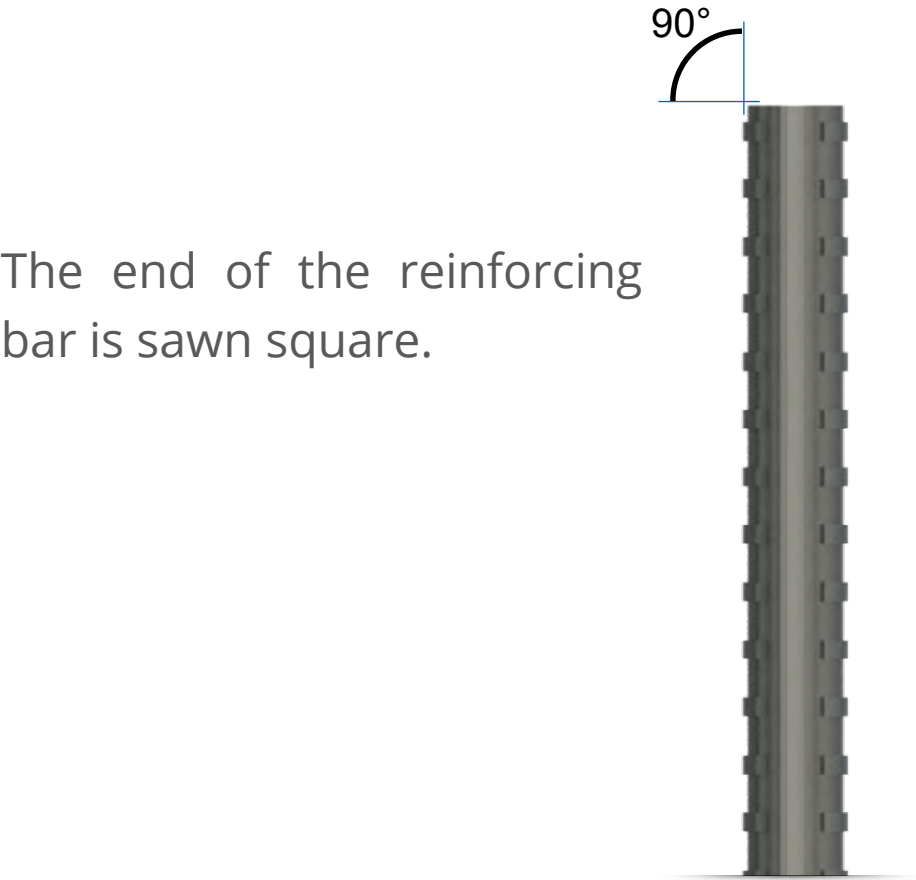
Benefits

- One standard coupler for all splicing requirements (Standard / Position).
- Easy installation, no torque wrench required.
- No reduction of the bar cross section area.
- Allows full ductile elongation of bars.
- Type 2 coupler suitable for seismic areas.
- Tested under reverse cyclic conditions.
- Solves bar congestion problems.

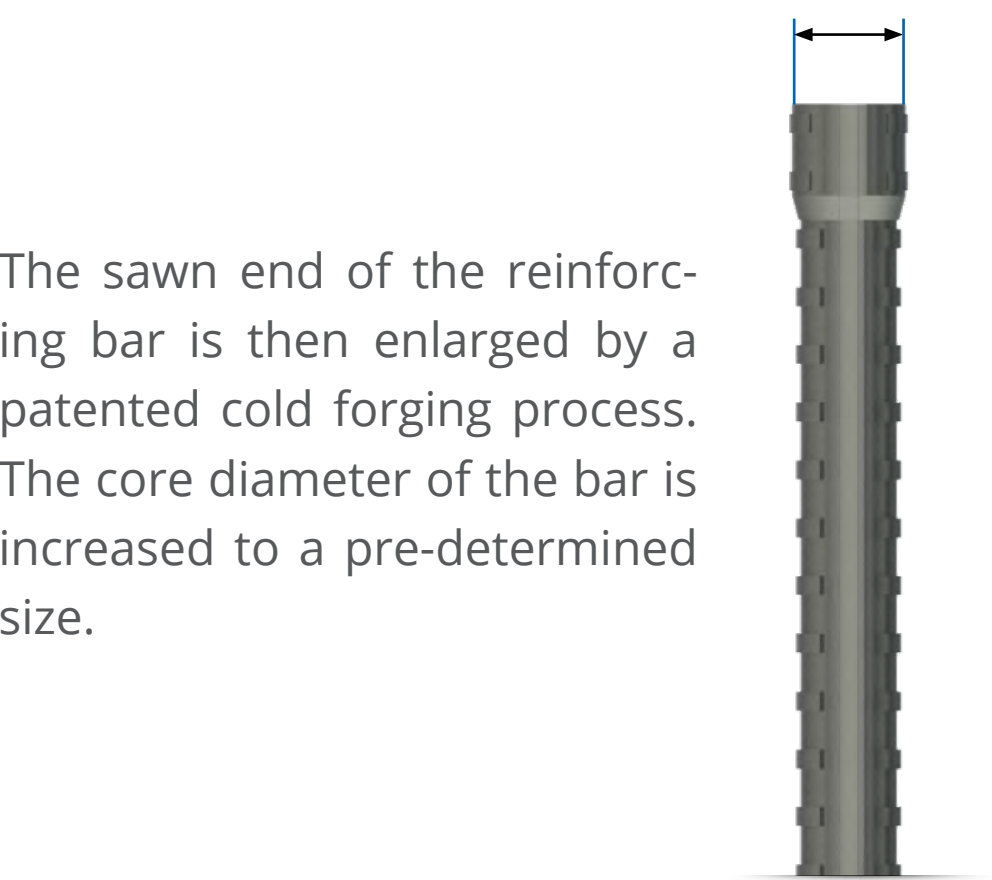


Rebar preparation: A 3-Step Process

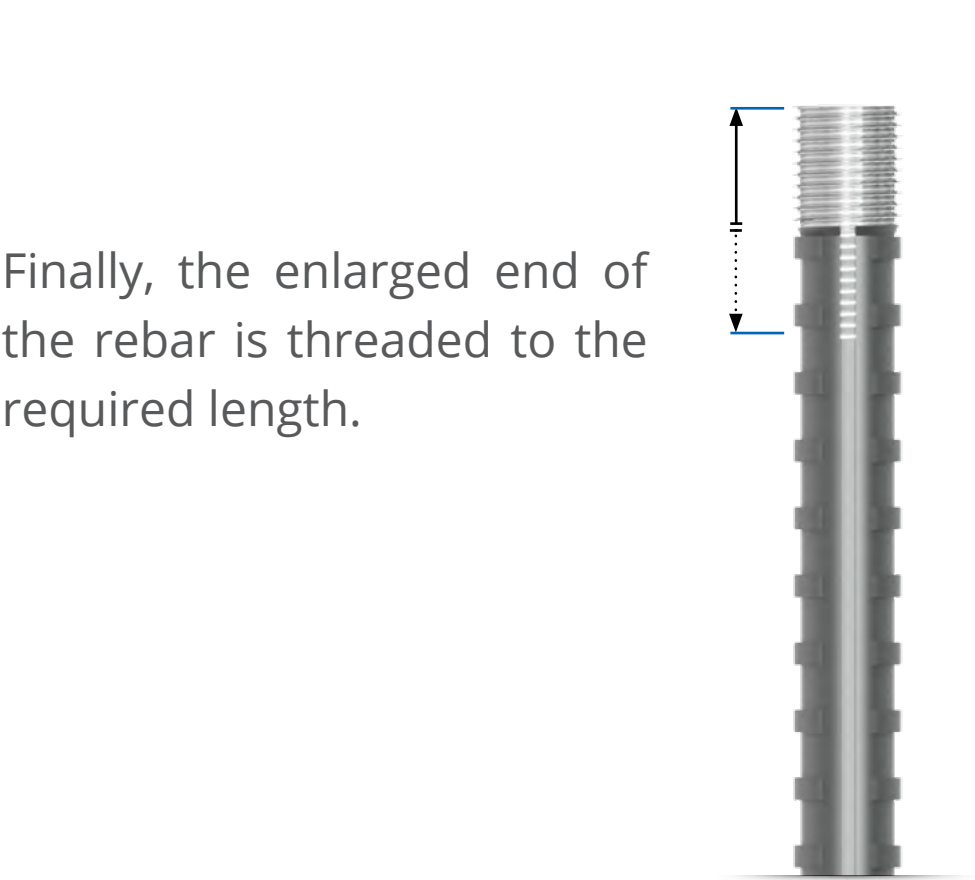
STEP 01 Cutting



STEP 02 Cold forging



STEP 03 Threading



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.

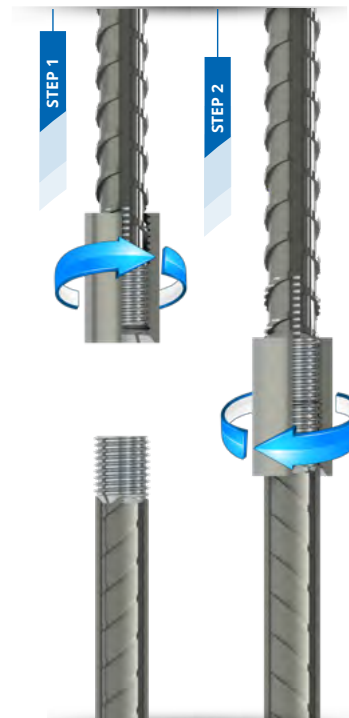


Position splice (Type B)

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 Bartec® caging assembly is your solution.

Both bars are prepared with a standard Bartec 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, Bartec® offers transition couplers that conveniently allow such a connection.

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

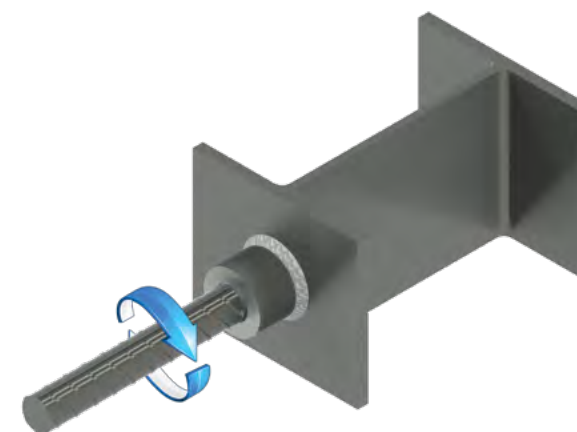
Smaller diameter rebar

Larger diameter rebar



Weldable couplers

For composite structures in which the reinforcement bars must be connected to structural steel, Bartec® weldable couplers provide the ideal solution. They are specially made from low carbon steel and have a large chamfer for bevel welding.



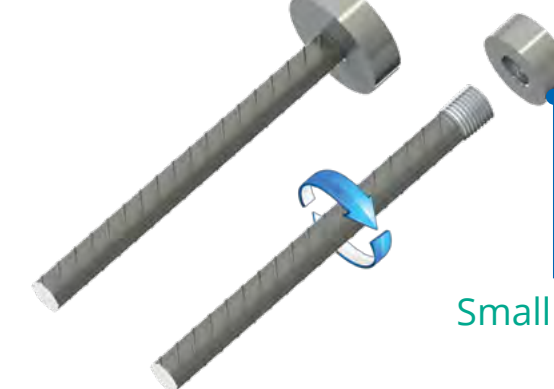
Headed bars

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

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

Large size

Small size



Generic specification

- No reduction of the nominal cross section area of the parent bars.
- No reduction of the ductility of the reinforcing bar.
- Couplers are individually marked to allow full traceability of the material.
- Parallel-thread system.

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.

Applications



Slab connection



Columns



Prefabricated Cages

Quality assurance



Approvals & Certifications



IAPMO UES 702 & 789



RU.MCC.
181.358.36295



N° 003-01/142-2020

Design tools

Available on www.dextragroup.com





BARTEC

Project References



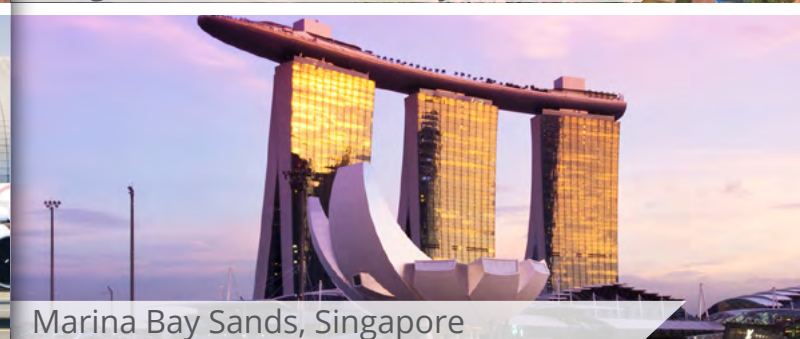
Ostravets NPP, Belarus



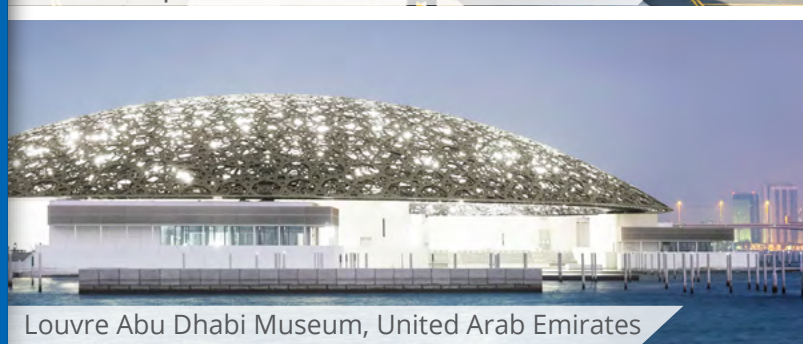
Yangon Landmark Hotel, Myanmar



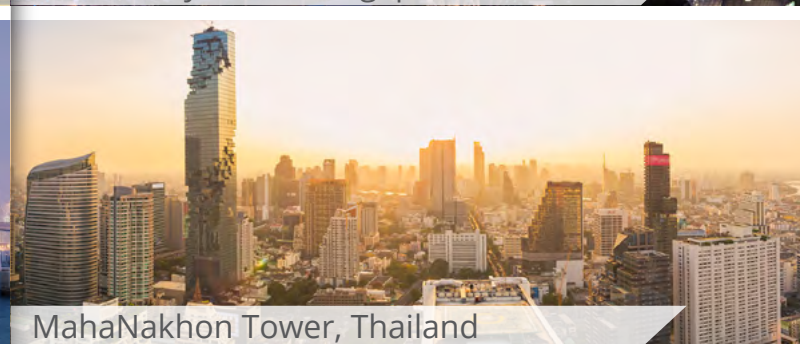
Dubai Airport, United Arab Emirates



Marina Bay Sands, Singapore



Louvre Abu Dhabi Museum, United Arab Emirates



MahaNakhon Tower, Thailand

Resources



Brochure



Datasheet



Assembly
instruction



Certification



Case study



Webpage

CAD & BIM Tools



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Commercial presence
in more than
55 countries



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