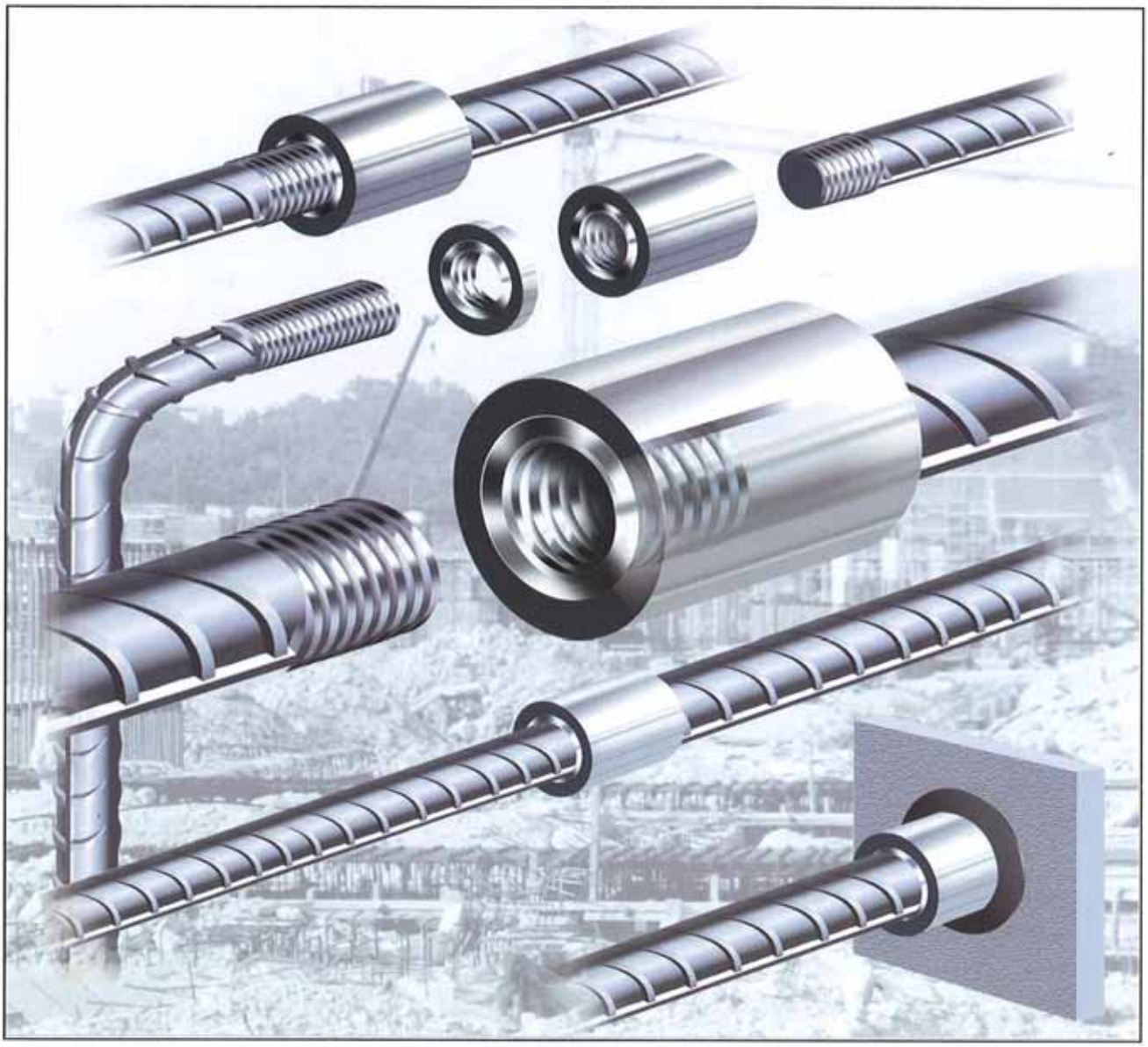
BARTEC®

Mechanical Splicing System



Dextra

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The only rebar splice that maintains the full ductility of the reinforcing b

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Product features

Bartec is a parallel-threaded mechanical splicing system designed for the connection of concrete reinforcing bars Ø12 to 56 mm.

Designed and manufactured in compliance with ACI 318, BS 8110, UBC 1997, IBC 2006, DIN 1045, CalTrans, ACI 349, ASME Sec III Div 2.

Approvals

- CalTrans
- ICC-ES n^0 ESR-1705 & ESR-2166
- UK CARES n^0 5011
- AFCAB n^0 M99/002
- DIBT n^0 Z-1.5-214
- Concrete Institute n^0 РОСС ТН.АЯ12.Н05154

Benefits

Bartec makes your design safer

- Provides continuity of reinforcing bars.
- No reduction of the bar cross section area.
- Full-Tension splice : Bar-break under tensile load.
- Allows full ductile elongation of bars.
- Manufactured under strict quality assurance plan ISO 9001. Third party tested.
- Full traceability of material origin and production batch.
- Type 2 coupler suitable for seismic areas.
- Tested under reverse-cyclic conditions.

Bartec makes your construction easier

- Practical alternative to lap splicing.
- Solves bar congestion problems.
- No staggering of splices bars required.
- Reduces steel wastage.
- Enables multiple re-use of formworks.
- Shortens construction cycle time.
- Couplers and threaded bars are protected by plastic caps.
- Easy installation, no torque wrench required.
- One standard coupler for all splicing requirements (Standard / Position).

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 sha

ar – while using the same coupler for standard and position connections

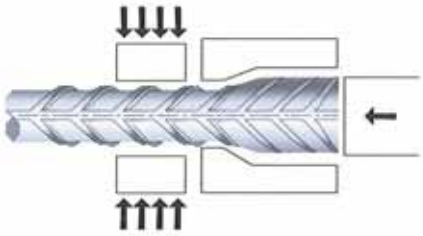
A 3 steps process

1) Cutting

The end of the reinforcing bar is sawn square.

2) Cold forging

The sawn end of the reinforcing bar is then enlarged by a patented cold forging process. The core diameter of the bar is increased to a pre-determined diameter.



3) Threading

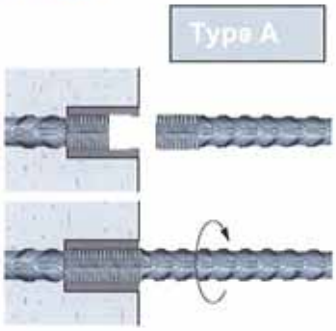
Finally, the thread is mechanically cut onto the enlarged end of the bar.

Splicing Methods

No torque wrenching required !

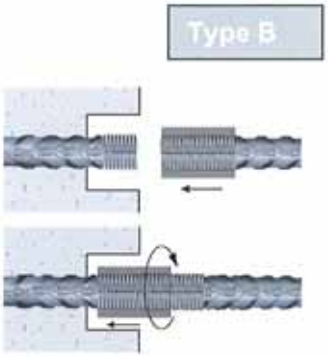
Standard splice

Easy connection by bar rotation until full thread engagement.
Parallel thread : No risk of thread mis-match. No risk of cross-threading.

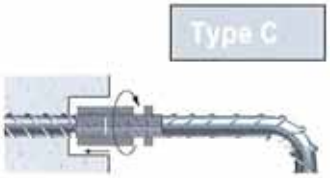


Position splice

Even when both bars cannot be turned, the Bartec system uses a standard Bartec coupler (exactly the same as used for type A) :
The coupler is fully engaged onto the extended thread of the connecting bar. The assembly is simply completed by butting the bars end to end and screwing back the coupler onto the first bar until full engagement.



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



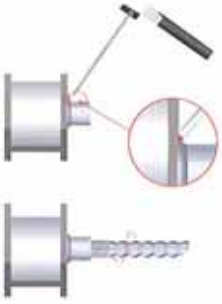
Mechanical anchorages

A convenient alternative to hooked bars to provide end anchorages in congested areas.

Bartec standard anchorage heads are circular and have a net bearing area of 4 times or 9 times the cross-section of the bar, but can be specified in other shapes or dimensions to fit the application requirement.

Weldable couplers

For concrete & steel composite construction, a weldable coupler is welded onto a steel member. The assembly is completed by rotating the reinforcing bar inside the coupler until full engagement.



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Your Reliable Connection

Bartec approximate dimensions (in millimeters)

Bar Dia.	Metric Thread	Standard Coupler			Lock Nut			Weldable Coupler		
(mm)	x pitch	Code	L	OD	Code	L	OD	Code	L	OD
12	M14x2.0	FPBS1214001	28	20	FPBL1214001	10	19	FPBW1214001	14	20
14	M16x2.0	FPBS1416001	32	24	FPBL1416001	12	21	FPBW1416001	16	22
16	M20x2.5	FPBS1620001	40	28	FPBL1620001	13	24	FPBW1620001	20	28
18	M22x2.5	FPBS1822001	44	34	FPBL1822001	15	30	FPBW1822001	22	32
20	M24x3.0	FPBS2024001	48	34	FPBL2024001	16	31	FPBW2024001	24	34
22	M27x3.0	FPBS2227001	54	36	FPBL2227001	18	33	FPBW2227001	27	38
25	M30x3.5	FPBS2530001	60	42	FPBL2530001	20	39	FPBW2530001	30	40
28	M33x3.5	FPBS2833001	66	48	FPBL2833001	22	42	FPBW2833001	33	46
32	M36x4.0	FPBS3236001	72	52	FPBL3236001	24	45	FPBW3236001	36	50
34	M39x4.0	FPBS3439001	78	60	FPBL3439001	26	49	FPBW3439001	39	56
36	M42x4.5	FPBS3642001	84	60	FPBL3642001	23	51	FPBW3642001	42	58
40	M45x4.5	FPBS4045001	90	65	FPBL4045001	23	56	FPBW4045001	45	64
45	M52x5.0	FPBS4552001	104	80	FPBL4552001	35	62	FPBW4552001	52	75
50	M56x5.5	FPBS5056001	112	80	FPBL5056001	37	67	FPBW5056001	56	80
56	M64x6.0	FPBS5664001	128	85	FPBL5664001	43	74	FPBW5664001	64	92

Generic specification

- No reduction of the ductility of the reinforcing bar.
- Tensile failure guaranteed to occur away from the joint.
- No reduction of the nominal cross section area of the parent bar.
- Couplers are individually marked to allow full traceability of the material.
- Parallel - thread system (in order to eliminate the risk of cross-threading and avoid the use of torque wrench).




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