

DEXTRA

Mechanical Splicing System



Dextra

The full tension splice that is stronger than the reinforcing bar, and guarantees bar break under tensile load.

Product Features

- Parallel-threaded-mechanical splicing system designed for the connection of concrete rebars \varnothing 12 to 56 mm.
- Designed and manufactured in compliance with ACI 318, BS 8110, DIN 1045, UBC 1997, NF A35-020.
- No reduction of the bar cross section area.
- Full Tension splice: Bar-break guaranteed under tensile load.
- Easy installation, no torque wrench required.
- One standard coupler for three splicing methods (A, B, C).
- Couplers + threaded bars are protected with colored plastic caps.
- Full traceability of material origin and production batch.
- Manufactured under strict quality plan ISO 9001: 2000.

Benefits

- Practical alternative to lap splicing.
- Solves bar congestion problems.
- Shortens construction cycle time.
- Reduces steel wastage.
- Provides continuity of reinforcing bars.
- Enables multiple re-use of formworks.
- Allows full ductile elongation of bars.
- No staggering of bars required.

Bar-Break Guarantee



Dextra Factory

A Three Steps Manufacturing Process

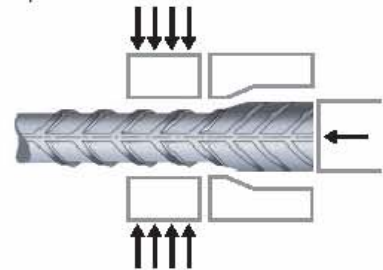
1) Cutting

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 predetermined diameter.



3) Threading

Finally, the enlarged end is cut (or rolled) to a standard ISO metric thread.



Threading Equipment

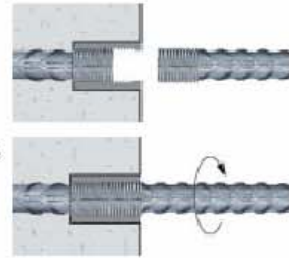
Splicing Methods

No torque wrenching required!

Type A : When the connecting bar can be rotated.

Consisting of 2 standard threads and 1 coupler

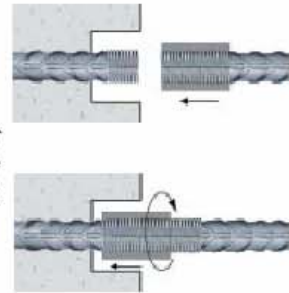
The first bar is fully engaged inside the coupler (at the production line). The assembly is completed by rotating the connecting bar inside the coupler until full engagement.



Type B : When the connecting bar is too long or too heavy to turn.

Consisting of 1 standard thread, 1 coupler, 1 extended thread

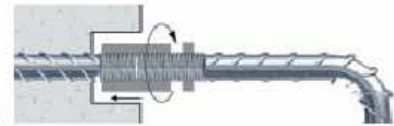
The first bar having a standard thread is placed in position. The coupler is fully engaged onto the extended thread of the connecting bar. The assembly is completed by butting the bars end to end and screwing back the coupler onto the first bar until full engagement.



Type C : When the connecting bar cannot rotate.

Consisting of 1 standard thread, 1 coupler, 1 extended thread, 1 lock-nut

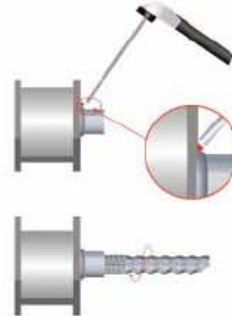
The assembly method is similar to the one of Type B with the addition of one lock-nut to maintain the coupler in position.



Type W : Weldable.

Consisting of 1 standard thread and 1 weldable coupler

A weldable coupler is welded onto a steel member. The assembly is completed by rotating the connecting bar inside the coupler until full engagement.



Threading Plant



Coupler Production Line

DEXTRA

Your Reliable Connection

Approximated dimensions (in millimeters)

Bar Dia. (mm)	Metric Thread x pitch	Standard Coupler			Lock Nut			Weldable Coupler		
		Code	L	OD Max	Code	L	OD Max	Code	L	OD Max
12	M14x2.0	FPBS1214001	28	21.0	FPBL1214001	10	21.0	FPBW1214001	14	21.0
14	M16x2.0	FPBS1416001	32	24.5	FPBL1416001	12	24.5	FPBW1416001	16	24.5
16	M20x2.5	FPBS1620001	40	30.5	FPBL1620001	13	30.5	FPBW1620001	20	30.5
18	M22x2.5	FPBS1822001	44	36.5	FPBL1822001	15	36.5	FPBW1822001	22	36.5
20	M24x3.0	FPBS2024001	48	34.3	FPBL2024001	16	34.3	FPBW2024001	24	36.5
22	M27x3.0	FPBS2227001	54	40.5	FPBL2227001	18	40.5	FPBW2227001	27	40.5
25	M30x3.5	FPBS2530001	60	42.5	FPBL2530001	20	42.5	FPBW2530001	30	42.5
28	M33x3.5	FPBS2833001	66	49.0	FPBL2833001	22	49.0	FPBW2833001	33	49.0
32	M36x4.0	FPBS3236001	72	53.0	FPBL3236001	24	53.0	FPBW3236001	36	53.0
36	M42x4.5	FPBS3642001	84	61.0	FPBL3642001	28	61.0	FPBW3642001	42	61.0
40	M45x4.5	FPBS4045001	90	68.0	FPBL4045001	30	68.0	FPBW4045001	45	68.0
50	M56x5.5	FPBS5056001	112	86.0	FPBL5056001	37	86.0	FPBW5056001	56	86.0

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.

Specifications

- Tensile failure must occur in the bar away from the joint.
- No reduction of the nominal cross section area of the parent bar.
- Couplers must be marked to allow full traceability of the material.
- A coupler system based on a parallel metric thread is preferred in order to simplify installation on site, thus avoiding the use of a special torque equipment.



THAILAND & SOUTH-EAST ASIA, Headquarters

Dextra Manufacturing Co., Ltd.
247 Sarasin Road, Lumpini, Pathumwan,
Bangkok 10330, Thailand
Tel : (66) 2 726 5731 Fax : (66) 2 328 0374
E-mail : thailand@dextragroup.com

INDIA

Dextra India Pvt. Ltd.
1/26, C Wing, Durian Industrial Estate,
Off. Western Express Highway, Goregaon (East),
Mumbai - 400 063, India
Tel : (91) 22 2878 4139 1795 Fax : (91) 22 2877 2731
E-mail : india@dextragroup.com

MIDDLE EAST

Dextra Middle East
Jebel Ali Free Zone, P.O. Box 50903, Dubai, UAE
Tel : (971) 4 887 1930 Fax : (971) 4 887 1931
E-mail : middleeast@dextragroup.com



HONG KONG

Dextra Pacific Ltd.
Room 1901, 19/F, Tung Wai Commercial Building
109-111 Gloucester Rd., Wanchai, Hong Kong
Tel : (852) 2845 7766 / 2511 8236
Fax : (852) 2586 1656 / 2519 0852
E-mail : dplbuilding@dextragroup.com

CHINA & TAIWAN

Dextra Building Products (Guangdong) Co., Ltd.
Guangdong Forestry Machinery Factory
Tianhe, Guangzhou, China
Tel : (86) 20 8703 2601 Fax : (86) 20 8703 3281
E-mail : china@dextragroup.com

NORTH AMERICA Dextra America Inc.

P.O. Box 28306, Bellingham, WA 98228-0306 USA
Tel : (1) 360-527-0800 Fax : (1) 360-527-0801
E-mail : america@dextragroup.com