

CATALOGUE





THREADING

The Cold forming method is essentially simple – the shape of the end of the rebar to be threaded, is modified via a round accurately predetermined sized steel die set. The forming load is minimal and applied transversely to the grain flow of the material, this in effect aligns the grain flow of the ribs and the core diameter. The core diameter and ribs are formed to

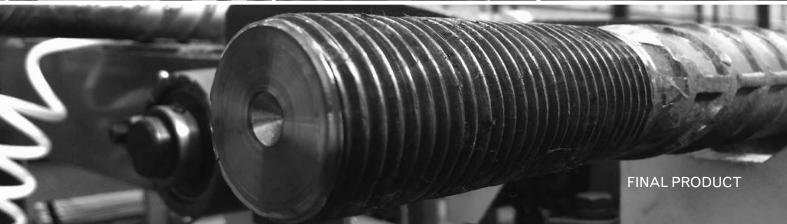
an accurate circular shape suitable to thread roll. For a standard thread suitable for the 32mm Type A rebar coupler this takes approximately 10 seconds.

STEP 1 STEP 2 STEP 3







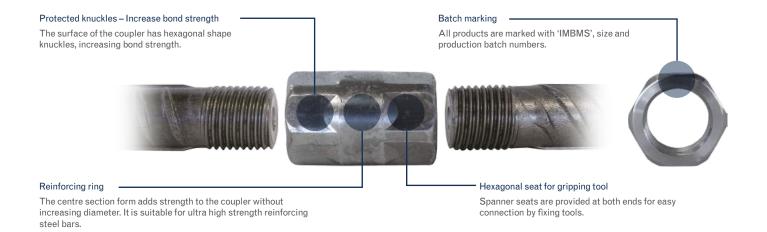


HIGHTENSILE STRENGTH IMBMS-BAR COUPLER

IMBMS-BAR COUPLER

The couplers are designed to provide high tensile strength connections with external ribs or spanner

flats, for easy gripping by hand tools; such as spanner, pipe wrench and chain wrench etc.



IMBMS-BAR (NORMAL-TEMPERATURE SWAGED BAR COUPLER)

Attributes:

- Meets NZ 3101
- Meets NZTA Bridge manual specification 3rd edition specification
- Patent registration No.0316435
- No heat applied, no upsetting, no thread cutting
- Through normal-temperature swaging, original stress-resistance in tension and compression force is ensured
- Concrete placement is easy thanks to the small diameter and short length of the coupler
- Couplers are available for dissimilar sizes on request

IMBMS-BAR (NORMAL-TEMPERATURE SWAGED BAR COUPLER)



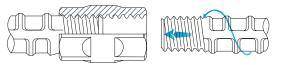
Performance is ensured

TYPICALTEST RESULTS-BS 8100 HOT ROLLED BARS BS.4449										
NOMINAL BAR SIZE	NOMINAL BAR SIZE YIELD STRESS (N/mm²) ULTIMATE STRESS PERMANENT ELONGATION (0.6fy) mm									
50	516	651	0.0820	BAR BREAK						
40	537	628	0.0721	BAR BREAK						
32	526	638	0.0518	BAR BREAK						
28	533	653	0.0480	BAR BREAK						
25	540	638	0.0014	BAR BREAK						
20	505	618	0.0021	BAR BREAK						
16	507	621	0.0048	BAR BREAK						
12	521	638	0.0040	BAR BREAK						

IMBMS-BAR INSTALLATION

TYPEA

- Used where the continuity bar can be rotated. Final tightening is by wrench, spanner etc.
- Used for P.S.C. box at the top of the bridge: ILM, FCM, MSS method of construction, second application, slip-form construction, etc.







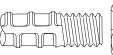


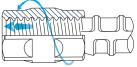




TYPE B

- We extend the bar thread at one side to allow the coupler to screw right on, flush with bar end.
 On assembly the bar ends are placed against each other and the coupler rotated onto the short thread to form the connection
- Turn the coupler onto the short thread to complete the assembly and tighten the bar with a wrench





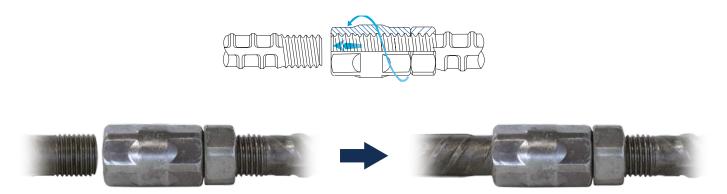
TYPE B CONT.



Used in applications of larger diameter, long bars. Where bars can be rotated but may be difficult to do so. E.g.: Over 6 metre long 32mm bars (and above) in a horizontal plane.

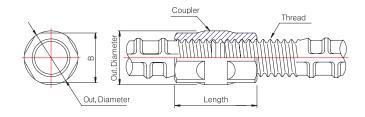
TYPEC

- We extend the bar thread at one side to allow the lock-nut and coupler to screw right on flush with bar end
- To assemble, the bar ends are placed against each other and the coupler rotated onto the short thread to form the connection. Wrench tighten the coupler onto the short bar and rotate the lock nut against the coupler and wrench tight



Used for construction of prefabricated cages, or fixing hooked/cranked bars.

COUPLER SIZE



	BS.4449										
NOMINAL BAR SIZE (Ømm)	12	16	20	25(26)	32	40	50				
COUPLER DIAMETER (mm)	19	23	31	38	48	60	75				
HEXAGON-B (mm)	17	21	29	36	46	56	70				
COUPLER LENGTH	30	38	46	58	70	86	110				

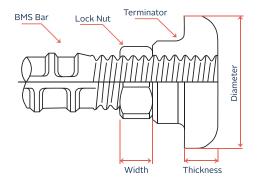
	ASTM A615/A 615M											
BAR DESIGNATION (#)	3(10)	4(13)	5(16)	6(19)	7(22)	8(25)	9(29)	10(32)	11(36)	14(43)	18(57)	
COUPLER DIAMETER (mm)	18	20	24	28	32	38	42	48	55	65	85	
COUPLER LENGTH	22	30	38	45	50	58	65	70	78	95	125	

TERMINATOR

LONGITUDINAL RE-BARS



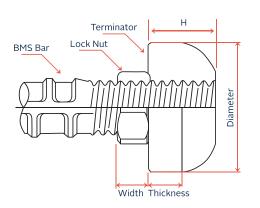




SHEAR RE-BARS



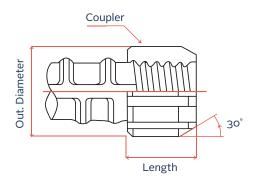




	BS.4449										
BARS	BAR SIZE 12 16 20 25 28 32 40 50										
	DIAMETER	29	36	45	56	65	72	90	112		
LONGITUDINAL RE-BARS	THICKNESS	6	7	8	9	10	10	18	20		
	Н	15	19	23	29	32	35	43	55		
SHEER	DIAMETER	32	51	64	80	89	102	127	159		
RE-BARS	THICKNESS	8	8	10	14	16	18	22	26		
LOCK NUT	WIDTH	(8)	10	13	18	(18)	18	25	(30)		

IMBMS WELDABLE COUPLER SIZE

Weldable couplers allow unrestricted and easy placing of re-bar to steel piles, forms, etc.

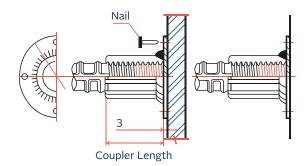


	BS. 4449										
BAR SIZE	12	16	20	25	28	32	40	50			
COUPLER DIAMETER (mm)	19	23	31	38	43	48	60	75			
COUPLER LENGTH	15	19	23	29	33	35	43	55			

	ASTM A615/A 615M										
BAR DESIGNATION (#)	3(10)	4(13)	5(16)	6(19)	7(22)	8(25)	9(29)	10(32)	11(36)	14(43)	18(57)
COUPLER DIAMETER (mm)	18	20	24	28	32	38	42	48	55	65	85
COUPLER LENGTH	22	30	38	45	50	58	65	70	78	95	125

IMBMS-FORM SAVER

Coupler has an attached nail plate for accurate and easy fixing to wooden form.



	BS. 4449									
BAR SIZE	12	16	20	25	28	32	40	50		
COUPLER DIAMETER (mm)	19	23	31	38	43	48	60	75		
COUPLER LENGTH	30	38	46	58	65	70	86	110		

	ASTM A615/A 615M										
BAR DESIGNATION (#)	3(10)	4(13)	5(16)	6(19)	7(22)	8(25)	9(29)	10(32)	11(36)	14(43)	18(57)
COUPLER DIAMETER (mm)	18	20	24	28	32	38	42	48	55	65	85
COUPLER LENGTH	22	30	38	45	50	58	65	70	78	95	125



PART CODE	DESCRIPTION	BAR DIAMETER
12BMS-CPLR	BMS Coupler	12mm
16BMS-CPLR	BMS Coupler	16mm
20BMS-CPLR	BMS Coupler	20mm
25BMS-CPLR	BMS Coupler	25mm
32BMS-CPLR	BMS Coupler	32mm
40BMS-CPLR	BMS Coupler	40mm
12BMS-LOCK	BMS Locknut	12mm
16BMS-LOCK	BMS Locknut	16mm
20BMS-LOCK	BMS Locknut	20mm
25BMS-LOCK	BMS Locknut	25mm
32BMS-LOCK	BMS Locknut	32mm
40BMS-LOCK	BMS Locknut	40mm
12BMS-TRM	BMSTerminator	12mm
16BMS-TRM	BMSTerminator	16mm
20BMS-TRM	BMSTerminator	20mm
25BMS-TRM	BMSTerminator	25mm
32BMS-TRM	BMSTerminator	32mm
40BMS-TRM	BMSTerminator	40mm
12BMS-A	BMS A Type Thread	12mm
16BMS-A	BMS A Type Thread	16mm
20BMS-A	BMS A Type Thread	20mm
25BMS-A	BMS A Type Thread	25mm
32BMS-A	BMS A Type Thread	32mm
40BMS-A	BMS A Type Thread	40mm
12BMS-B	BMS BTypeThread	12mm
16BMS-B	BMS BTypeThread	16mm
20BMS-B	BMS BTypeThread	20mm
25BMS-B	BMS BTypeThread	25mm
32BMS-B	BMS BTypeThread	32mm
40BMS-B	BMS BTypeThread	40mm
12BMS-C	BMS CTypeThread	12mm
16BMS-C	BMS CTypeThread	16mm
20BMS-C	BMS CTypeThread	20mm
25BMS-C	BMS CTypeThread	25mm
32BMS-C	BMS CTypeThread	32mm
40BMS-C	BMS CTypeThread	40mm

P 04 566 2253

F 04 566 2256

E enquiry@imbms.co.nz

PO Box 38-509 Wellington Mail Centre Te Puni 5045

www.imbms.co.nz

