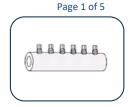






PLAKA - MBT
Reinforcing bar couplers
REF 01.02.04 - Version V02 - 19/01/2021



Description

The MBT range of couplers provides a method of joining reinforcing bars. The bar ends are supported within the coupler by two serrated saddles, and as the lockshear bolts are tightened, the conical ends embed themselves into the bar. As this happens the serrated saddles bite into both the bar and the shell of the coupler. Neither bar end preparation to form threads, nor bar rotation are required. The MBT achieve failure loads higher than 110% of the characteristic yield strength of grade 500 reinforcing bar

Application fields

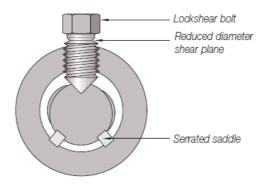
The MBT are used:

- to connect unthreaded bars
- to connect bars of precast structures
- to connect bent bars
- to connect easily long and heavy bars
- to connect bars with different diameters

Properties

Mechanical properties					
Steel quality of the coupler sleeve	Tensile strength ≥ 600 N/mm ²				
Steel quality of the lockshear bolts	Tensile strength ≥ 525 N/mm ²				
Steel quality of the serrated saddles	Tensile strength ≥ 700 N/mm ²				
Technical agreements	BBA - No 98/R102				
	Zulassung Z-1.5-10 for type ET10 à ET28				
	AFCAB certification M20/023				

Dimensions



Section showing the embedment of the lockshear bolts and saddles into the bar and the shell of the coupler.

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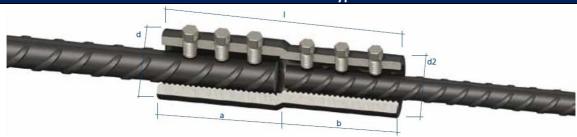


MBT ET Series



Bar diameter	External diameter 'd'	Total length 'l'	Socket size A/F	No. of bolts	Approx weight	Product code
[mm]	[mm]	[mm]	[ins]	[]	_	0
					[kg]	
10	33,4	100	1/2	4	0,52	BRMBT10
12	33,4	140	1/2	6	0,72	BRMBT12
14	42,2	160	1/2	6	1,25	BRMBT14
16	42,2	160	1/2	6	1,25	BRMBT16
20	48,3	204	1/2	8	1,96	BRMBT20
25	54,0	258	5/8	8	3,00	BRMBT25
28	66,7	312	5/8	10	5,80	BRMBT28
32	71,0	312	5/8	10	6,50	BRMBT32
40	81,0	484	3/4	14	11,30	BRMBT40

MBT Transition Series type MR



Bar diameter	External diameter 'd'	External diameter 'd2'	Total length 'l'	Individual length	Socket size A/F	No. of bolts a:b	Approx weight	Product code
[mm/mm]	[mm]	[mm]	[mm]	a-b [mm]	a:b [ins]	0	[kg]	0
16/12	42,2	26,4	160	80-80	1/2:1/2	3:3	1,30	BRMR1612
16/14	42,2	42,2	160	80-80	1/2:1/2	3:3	1,25	BRMR1614
20/16	48,3	48,3	160	80-80	1/2:1/2	3:3	1,56	BRMR2016
25/20	54,0	54,0	180	90-90	5/8:1/2	3:3	2,23	BRMR2520
28/25	66,7	54,0	258	129-129	5/8:5/8	4:4	3,98	BRMR2825
32/25	71,0	54,0	231	102-129	5/8:5/8	3:4	3,70	BRMR3225
32/28	71,0	66,7	286	130-156	5/8:5/8	4:5	5,71	BRMR3228
40/32	81,0	71,0	335	178-157	3/4:5/8	5:5	7,47	BRMR4032

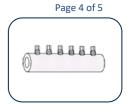
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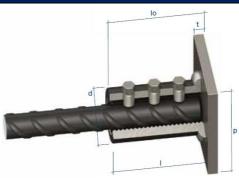




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MBT headed anchors



Bar diameter	External diameter 'd'	Coupler sleeve length 'l'	Length plate included ${}^{L}l_0{}^{L}$	Plate thickness 't'	Plate size 'p'	Size lockshear bolts	Qtty lockshear bolts	Weigh t	Ref. product code
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[inch]	[]	[kg]	[]
12	33,4	75	85	10	70	1/2	3	0,74	BRHA12
14	42,2	82	92	10	70	1/2	3	1,01	BRHA14
16	42,2	82	92	10	80	1/2	3	1,07	BRHA16
20	48,3	104	114	10	90	1/2	4	1,58	BRHA20
25	54,0	129	139	10	100	5/8	4	2,29	BRHA25
28	66,7	156	168	12	110	5/8	5	4,14	BRHA28
32	71,0	156	171	15	130	5/8	5	4,72	BRHA32
40	81,0	247	262	15	150	3/4	7	8,30	BRHA40

Accessories MBT										
Accessories	Description	Picture	Diameters [mm]	Reference code	Weight [Kg]					
311	Socket head		φ10-20	BRD1620	0,29					
			φ25-32	BRD2532	0,69					
			φ40	BRD40	0,71					
	Ratchet wrench (Length 56cm)		ф10-40	BRRAC	1,51					