

# Unitec

## Universal rebar splicing system for #4 - #18



Unitec is a universal shear-bolt coupling system for the connection of concrete reinforcement bars from ASTM #4 to #18. The Unitec rebar splicing system can be assembled onsite using a standard impact wrench. The ends of rebar require no preparation prior to installation.

Unitec is ideal for concrete-embedded bars, repair and retrofit works, bent bars, and other applications. Unitec meets ACI 318 Type 2 requirements, is ICC approved, and complies with BS 8110 and NF A35-020 Standards.

### Approvals & Certifications

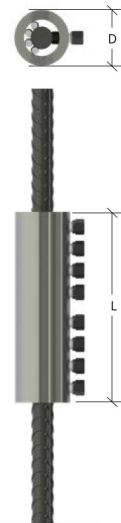
IAPMO for use with bar size #4 through #14:

- ASTM A615 grade 60, 75 and 80
- ASTM A706 grade 60 and 80
- ISO 6935-2 grade B500B



Unitec couplers are marked to trace raw materials and production batch data.

Part No.	Bar Size		Coupler Dimensions				Screw Size	Total Number of Screws
	USA / Mexico	Canada	Outside Diameter (D)		Length (L)			
			(in)	(mm)	(in)	(mm)		
SBMC04	#4		1-7/8	48	5-1/2	140	M12	6
SBMC05	#5	15M	1-7/8	48	5-1/2	140	M12	6
SBMC06	#6, #7	20M	2-1/4	59	7-1/8	180	M16	6
SBMC08	#8	25M	2-1/2	62	9-1/2	240	M16	8
SBMC09	#9		3	76	8-5/8	220	M20	6
SBMC10	#10	30M	3-1/4	83	11	280	M20	8
SBMC11	#11	35M	3-1/2	89	14-1/8	360	M20	10
SBMC12	#12		3-3/4	95	16-3/4	425	M20	12
SBMC14	#14	45M	4-1/4	95	21-7/8	555	M20	16
SBMC18	#18	55M	4-3/4	122	25-1/4	640	M24	16



General instruction: Grease shall not be used.

HDG Available

**SureBuilt**  
Concrete Forms & Accessories

2525 Armitage Ave  
Melrose Park, IL 60160  
708-493-9569  
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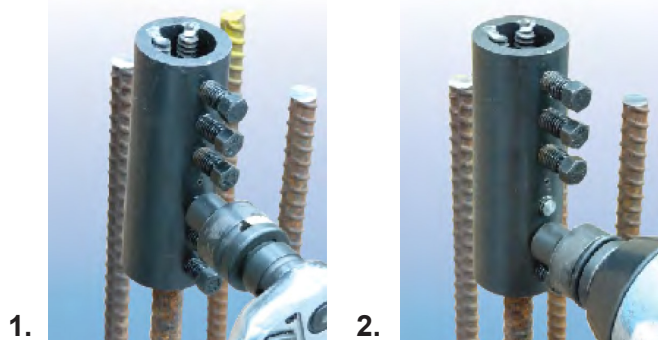
## Installation Procedure

1. Insert the Unitec coupler over the end of the first bar until contact with the center pin. Strongly hand tighten the screws from center to outside with a wrench to pre-position the coupler progressively in order to maintain its alignment with the bar.

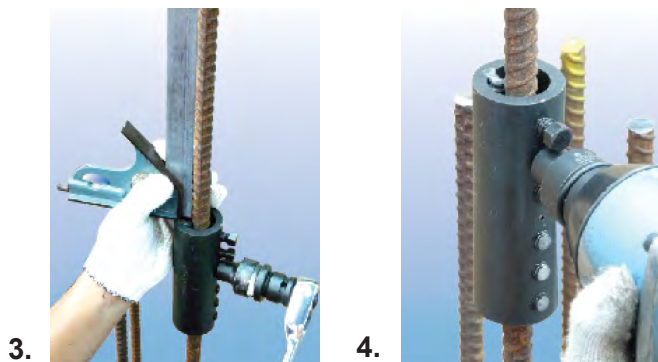
2. Tighten the screws, from center to outside, with a power drive (pneumatic wrench) until their heads shear off. (A manual wrench can be sufficient for small screws M12 & M16 if there are not many couplers to assemble).

3. Insert the second bar into the coupler until contact with the center pin and repeat the operation. Check the bar alignment when hand tightening the screws with a wrench. At a distance of 1ft, misalignment should not exceed 1/4" (or not more than 5mm at a distance of 25cm).

4. Tighten the screws, from center to outside, with a power drive (pneumatic wrench) until their heads shear off.



1. **Safety tip: wear goggles and ear plugs when using the impact wrench.**



Use one of the Toku & Metabo pneumatic impact wrenches listed below. If another brand or another model is used, the proper speed should be determined before starting the job.

The requirement for air flow is 100 psig (7 bar) of operating pressure and 70 cfm (2 m<sup>3</sup>/min) of delivered air to the pneumatic impact wrench through a 3/4" (Unitec 12 to 25) or 1" (Unitec 12 to 50) hose.

## Ordering Information

Part No.	Bar Size		Qty / Box (pieces)	Net Weight (lbs)	Gross Weight (lbs)
	USA / Mexico	Canada			
SBMC04	#4		200	673	721
SBMC05	#5	15M	200	639	688
SBMC06	#6, #7	20M	100	617	666
SBMC08	#8	25M	50	432	481
SBMC09	#9		30	425	474
SBMC10	#10	30M	50	977	1025
SBMC11	#11	35M	20	558	606
SBMC12	#12		10	350	399
SBMC14	#14	45M	10	459	507
SBMC18	#18	55M	10	400	422

Please ensure that order quantities area multiple of the packaging quantities stated in the table.  
External dimensions of crate = W 33in (83.4 cm), L 25in (63.4 cm), H 11.5in (29.0cm).