

# Ancon MBT Coupler Installation Guide

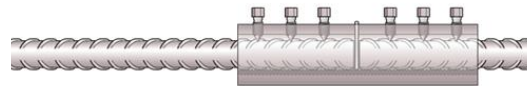
Ancon MBT Couplers must be correctly installed to ensure that the full working capacity can be achieved. The coupler should be complete with the correct number of bolts and the two serrated strip saddles in place inside the coupler. For correct installation, all the bolts must be tightened until the heads shear off.

1 Place coupler over the end of the bar to half the coupler length +/- 6mm and finger tighten the lock shear bolts onto the bar. Check the alignment and make any necessary adjustments.



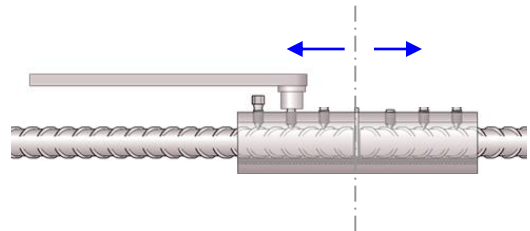
2 Place other bar end into the coupler until it pushes up against the first bar and finger tighten the remaining lock shear bolts. Check the alignment and make any adjustments.

3 The lock shear bolts should be tightened using either a ratchet wrench, electric or pneumatic power tool. Do not use impact power tools.



4. On one half of the coupler, starting from the centre of the coupler and working outwards, towards the end of the coupler, **partly tighten** all of the lock shear bolts using the appropriate tool.

5 Repeat step 4 again, starting from the centre of the coupler and working towards the end of the coupler, **fully tighten** all of the lock shear bolts, using the appropriate tool, until the bolt heads shear off.




6. Steps 4 and 5 to be completed for the other half of the coupler.

Ref.	No./Bolt Thread	Socket Head	Nominal Bolt Shear Torque		Handle Length* (mm)
			(Nm)	(lbf ft)	
ET10	4/M10	1/2"	55	40	300
ET12	6/M10	1/2"	55	40	300
ET14	6/M12	1/2"	108	80	600
ET16	6/M12	1/2"	108	80	600
ET20	8/M12	1/2"	108	80	600
ET25	8/M16	5/8"	275	203	1100**
ET28	10/M16	5/8"	275	203	1100**
ET32	10/M16	5/8"	360	265	1500**
ET40	14/M20	3/4"	525	386	1800**

\* The minimum length of handle to limit the force required to shear the bolts to 250N. This is approximately equivalent to lifting 25kg or 56 lbs.

\*\* Although these can be tightened using a hand ratchet wrench, Ancon recommends the use of an electric or pneumatic wrench designed to deliver a steady tightening force to the bolts. Appropriate tools can be purchased or hired from Ancon. **Do not use impact power tools.**

The use of scaffold poles is not recommended as an extension to hand wrenches; this can result in increased stresses, leading to thread strip failure during installation. For further details please contact Ancon.

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