



# RADIAL<sup>®</sup>

## TORQUE TOOLS



User manual

### Cassette Torque Multiplier – CT Series



USER MANUAL FOR

- CT2
- CT4
- CT8

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## Selecting cassette

The choice of cassette is determined by the model Torque tool, the required torque output and hex size of the application.

The maximum input and output that the cassette can endure is stated on the cassette. These vary in three models.



**Note:** Torque: 1:3 – The input torque will be multiplier by a factor of 3.



**Note:** RPM: 3:1 – The input RPM - speed will be reduced by a factor of 3.

Cassette model	Max input	Max output
CT2	678 Nm	2.034 Nm
CT4	1.356 Nm	4.067 Nm
CT8	3.390 Nm	10.169 Nm

## Placing the cassette

Place the cassette according to instructions to loosen or tighten the bolt / nut of the application. The reaction arm is set to the next bolt or another suitable reaction point. The cassette can only turn in one direction as according to instructions on the cassette. Place the cassette to meet the requested direction, clockwise or counter clockwise. The instruction on the cassette is based on tightening in clockwise direction.

## Placing the torque tool

The tool can be placed on both sides of the cassette. The turning direction of the Torque tool should be carefully determined as it **must** be set in the opposite direction of the cassette hex. The turning direction is also shown on the cassette with arrows.



**Warning:** Before sliding the torque wrench into the CT cassette, please double check if the rotation direction matches the arrow on the CT cassette. In case the rotation direction is set opposite, and used, it could result in operator injury and damage of the equipment!



**Note:** Some Torque tools have only one controlled direction. Reverse setting can give more power.

The torque value setting of the torque tool should be set to 1:3 of the required output of the application. The output force is three times higher than the input force.

## Operation

Make sure that the Torque tool stays firmly inserted in the cassette during tightening. Please note that the clacking sound caused by the ratchet is normal.



**Note:** Near the end of the torque cycle, as the rpm is dropping, please press the release lever at the side of the cassette in order to be able to remove the cassette from the tightened bolt.



### **Warning:**

- Near the end of the torque cycle, as the rpm is dropping, please press the release lever.
- The cassette must be firmly set on the application and the reaction arm must be set accurately onto a suitable reaction point.
- For practical reasons, it is not possible to lock the cassette to the Torque wrench. Please be mindful it can fall out if not held.
- Pinch warning. Keep hands clear of the cassette reaction point during operation.
- Only turn in instructed direction.



**Note:** The CT Series are designed to function with single speed RAD torque wrenches. Automatic 2-speed models should not be used on the CT Series.



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