



RADIAL[®]

TORQUE TOOLS



User manual

Cassette Torque Multiplier – CT Series



USER MANUAL FOR

- CT2
- CT4
- CT8

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WWW.RADIALTORQUE.EU

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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.

Contact us

Radial Torque Tools B.V.

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Website: www.radialtorque.eu

Warranty

New tool warranty

1. Radial B.V. guarantees the proper performance of the goods delivered for a period of twelve (12) months after delivery to the final customer. And is limited to fifteen (15) months after the original calibration date.

Repaired tool warranty

2. Once a tool is beyond its new tool warranty, Radial B.V., for a period of three (3) months from the date of repair, will replace or repair for the original purchaser, free of charge, any part, or parts, found upon examination by Radial B.V., to be defective in material or workmanship or both. If any tool or part is replaced or repaired under the terms and conditions of this warranty, that tool or part will carry the remainder of the warranty from the date of original repair. To qualify for the above-mentioned warranties, written notice to Radial B.V. must be given immediately upon discovery of such defect, at which time Radial B.V. will issue an authorization to return the tool. The defective tool must promptly be returned to Radial B.V., all freight charges prepaid. When returning a tool, the reaction arm(s) being used with the tool must also be returned.

Exceptions to warranty

Customer cannot invoke a warranty if:

3. the defect, wholly or partly, is due to unusual, inappropriate, improper, or careless use of a delivery.
4. the defect, wholly or partly, is due to normal wear and tear or lack of proper maintenance.
5. the defect, wholly or partly, is due to installation, assembly, modification, and/or repair by the customer or by third parties.
6. the delivery is altered, modified, used, or processed.
7. the delivery is transferred to a third party.
8. Radial B.V. has obtained the tool, wholly or partly, from a third party, and Radial B.V. cannot claim compensation under warranty.
9. Radial B.V. in manufacturing of the tool, has used raw materials, and suchlike on the instructions of the customer.
10. the tool has a small deviation in its quality, finishing, size, composition, and suchlike, which is not unusual in the industry or if the defect was technically unavoidable.
11. the customer has not promptly and correctly fulfilled all obligations under the agreement towards Radial B.V..

For an up-to-date version of our warranty see, radialtorque.eu/en/general-terms-and-conditions/

CE certificate

EC DECLARATION OF CONFORMITY

According to Annex IIA of the Machinery Directive 2006/42/EC

We,

Radial Torque Tools B.V.
Zuidergracht 17
3763 LS Soest
The Netherlands



We hereby declare that the undersigned is authorized to compile the EC declaration for this machine on behalf of our company.

Furthermore, we declare, entirely under our own responsibility, that the:

Machine: CT Offset Multiplier

Year: 2024

In accordance with the provisions of the European Directives below:

Machinery Directive: 2006/42/EG

And in accordance with the standard below:

Pressure equipment Directive: 97/23/EC

Place and date

Soest, 26-11-2024

Name and signature

Marcel Birkhoff



[illegible]

[illegible]



*MASTER DISTRIBUTOR FOR EUROPE,
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