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# Torque Wrench

## CL-MH Adjustable Click Type Torque Wrench

DIRECTION 

 RoHS   **ASSEMBLY**   **ADJUSTABLE**   **INTERCHANGEABLE HEAD**   **GRADUATION**

## Features

- Knurled metal handle version of CL model.
- Same features as QL-MH type but with interchangeable heads.
- A clear "click" sound by internal toggle mechanism signals tightening completion upon reaching the set torque.
- By exchanging heads, the wrench services a variety of applications from open end spanner, ring, ratchet, hex heads, and more, with a single wrench.
- CL25Nx10D-MH, CL50Nx12D-MH, CL50Nx15D-MH, CL100Nx15D-MH and CL140Nx15D-MH adjustable torque wrenches can be used with interchangeable adjustable heads (AH) (monkey wrench type).
- Applicable for international use including the EU region.
- Compliant with calibration procedures of ISO 6789 Type II Class A.

# Specifications

|                                      |                  |      |               |             |             |               |              |
|--------------------------------------|------------------|------|---------------|-------------|-------------|---------------|--------------|
| Accuracy ±3%                         |                  |      |               |             |             |               |              |
| S.I. MODEL                           |                  |      | CL2NX8D-MH    | CL5NX8D-MH  | CL10NX8D-MH | CL15NX8D-MH   | CL25NX10D-MH |
| TORQUE RANGE<br>[N • m]              | MIN. ~ MAX.      |      | 0.4 ~ 2       | 1 ~ 5       | 2 ~ 10      | 3 ~ 15        | 5 ~ 25       |
|                                      | GRAD.            |      | 0.02          | 0.05        | 0.1         |               | 0.25         |
| METRIC MODEL                         |                  |      | 20CL-MH       | 50CL-MH     | 100CL-MH    | 150CL-MH      | 225CL-MH     |
| TORQUE RANGE<br>[Kgf • cm / Kgf • m] | MIN. ~ MAX.      |      | kgf•cm 4 ~ 20 | 10 ~ 50     | 20 ~ 100    | 30 ~ 150      | 50-250       |
|                                      | GRAD.            |      | kgf•cm 0.2    | 0.5         | 1           |               | 2.5          |
| AMERICAN MODEL                       |                  |      | CL15IX8D-MH   | CL30IX8D-MH | CL50IX8D-MH | CL100IX10D-MH | Upon Request |
| TORQUE RANGE<br>[lbf • in]           | MIN. ~ MAX.      |      | 3 ~ 15        | 6 ~ 30      | 10 ~ 50     | 20 ~ 100      | -            |
|                                      | GRAD.            |      | 0.1           | 0.2         | 0.5         | 1             | -            |
| APPLICABLE BOLT                      | COMMON STEEL     |      | M4            | M5,M6       | (M7)        | M8            |              |
|                                      | HIGH TENSION     |      | (M3.5)        | (M4.5)      | M6 (        | M6) M7        | (M7)         |
| MAX. HAND FORCE [N]                  |                  |      | 17.2          | 42.9        | 65.6        | 98.4          | 139          |
| DIMENSION<br>[mm]                    | EFFECTIVE LENGTH | L    | 116.5         |             | 152.5       |               | 180          |
|                                      | OVERALL LENGTH   | L'   | 140           |             | 175         |               | 200          |
|                                      | HEAD             | d3   | 8             |             |             |               | 10           |
|                                      | BODY             | m    | 19            |             |             |               |              |
|                                      |                  | n    | 9.2           |             |             |               |              |
|                                      |                  | d    | 15            |             |             |               |              |
| D                                    |                  | 25.5 |               |             |             | 26.5          |              |
| WEIGHT [kg]                          |                  |      | 0.13          |             | 0.16        |               | 0.25         |

|                                      |                  |    |              |              |               |               |               |               |            |
|--------------------------------------|------------------|----|--------------|--------------|---------------|---------------|---------------|---------------|------------|
| Accuracy ±3%                         |                  |    |              |              |               |               |               |               |            |
| S.I. MODEL                           |                  |    | CL50NX12D-MH | CL50NX15D-MH | CL100NX15D-MH | CL140NX15D-MH | CL200NX19D-MH | CL280NX22D-MH |            |
| TORQUE RANGE<br>[N • m]              | MIN. ~ MAX.      |    | 10 ~ 50      |              | 20 ~ 100      |               | 30 ~ 140      | 40 ~ 200      | 40 ~ 280   |
|                                      | GRAD.            |    | 0.5          |              | 1             |               | 2             |               |            |
| METRIC MODEL                         |                  |    | 450CL-MH     | 500CL-MH     | 900CL-MH      | 1400CL-MH     | 1800CL-MH     | 2800CL-MH     |            |
| TORQUE RANGE<br>[Kgf • cm / Kgf • m] | MIN. ~ MAX.      |    | 100-500      |              | 200-1000      |               | 300-1400      | 400-2000      | kgf·m 4-28 |
|                                      | GRAD.            |    | 5            |              | 10            |               | 20            | kgf·m 0.2     |            |
| AMERICAN MODEL                       |                  |    | Upon Request |              |               |               |               |               |            |
| TORQUE RANGE<br>[lbf • in]           | MIN. ~ MAX.      |    | -            | -            | -             | -             | -             | -             |            |
|                                      | GRAD.            |    | -            | -            | -             | -             | -             | -             |            |
| APPLICABLE BOLT                      | COMMON STEEL     |    | M10          |              | M12 (M14)     |               | M16           | (M18)         | M20        |
|                                      | HIGH TENSION     |    | M8           |              | M10           |               | M12           | (M14)         | M16        |
| MAX. HAND FORCE [N]                  |                  |    | 238          | 227          | 338           | 394           | 449           | 424           |            |
| DIMENSION<br>[mm]                    | EFFECTIVE LENGTH | L  | 210          | 220          | 295           | 355           | 445           | 660           |            |
|                                      | OVERALL LENGTH   | L' | 235          |              | 310           | 370           | 455           | 655           |            |
|                                      | HEAD             | d3 | 12           | 15           |               |               | 19            | 22            |            |
|                                      | BODY             | m  | 25.5         |              |               | 28            |               | 35            |            |
|                                      |                  | n  | 11.2         |              |               | 12.2          |               | 15            |            |
|                                      |                  | d  | 20           |              |               | 21.7          |               | 27.2          |            |
|                                      |                  | D  | 36           |              |               | 37            |               | 46.5          |            |
| WEIGHT [kg]                          |                  |    | 0.45         |              | 0.69          | 0.79          | 1.4           | 1.9           |            |

## Notes

Overall length does not include interchangeable head. PH (Pipe wrench head) type interchangeable head is not available for this model.