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Torque and Screw Interchangeability

| Hex Size Inch | Torque Capacity** | | | | Screw Interchangeability | | | | | |
|------------------|--------------------------|-------|--------------------------|--------|---|---|---|---|---|--|
| | Bondhus® Straight Hex | | Bondhus® Ball End Tip | |  |  |  |  |  | |
| | in-lb | Nm | in-lb | Nm | | | | | | |
| .050 | 7.9 | 0.892 | 3 | 0.339 | 0 | 1, 2 | 1, 2 | 3, 4 | --- | |
| 1/16 | 15.9 | 1.796 | 7 | 0.0791 | 1 | 3, 4 | 3, 4 | 5, 6 | --- | |
| 5/64 | 34 | 3.842 | 13 | 1.469 | 2, 3 | 5, 6 | 5, 6 | 8 | --- | |
| 3/32 | 51 | 5.763 | 24 | 2.712 | 4, 5 | 8 | 8 | 10 | --- | |
| 7/64 | 84 | 9.492 | 39 | 4.407 | 6 | 10 | --- | --- | --- | |
| 1/8 | 129 | 14.57 | 57 | 6.441 | --- | --- | 10 | 1/4 | 1/4 | |
| 9/64 | 185 | 20.90 | 86 | 9.718 | 8 | 1/4 | --- | --- | --- | |
| 5/32 | 265 | 29.94 | 127 | 14.35 | 10 | 5/16 | 1/4 | 5/16 | 5/16 | |
| 3/16 | 431 | 48.7 | 189 | 21.35 | 1/4 | 3/8 | 5/16 | 3/8 | 3/8 | |
| 7/32 | 673 | 76.04 | 318 | 35.93 | --- | 7/16 | 3/8 | 7/16 | --- | |
| 1/4 | 950 | 107.3 | 482 | 54.44 | 5/16 | 1/2 | --- | 1/2 | 1/2 | |
| 5/16 | 2022 | 228.4 | 888 | 100.3 | 3/8 | 5/8 | 1/2 | 5/8 | 5/8 | |
| 3/8 | 3005 | 339.5 | 1488 | 168.1 | 7/16, 1/2 | --- | 5/8 | 3/4 | 3/4 | |
| 7/16 | | | | | 9/16 | 3/4 | | --- | --- | |
| 1/2 | | | | | 5/8 | --- | --- | 7/8 | 1 | |
| 9/16 | | | | | --- | --- | --- | 1, 1-1/8 | --- | |
| 5/8 | | | | | 3/4 | --- | --- | 1-1/4, 1-3/8 | 1-1/4 | |
| 3/4 | | | | | 7/8, 1 | --- | --- | 1-1/2 | --- | |
| 7/8 | | | | | 1, 1 1/4 | --- | --- | --- | --- | |
| 1 | | | | | 1 3/8, 1 1/2 | --- | --- | --- | --- | |
| 1 1/4 | | | | | 1 3/4 | --- | --- | --- | --- | |
| 1 1/2 | | | | | 2 | --- | --- | --- | --- | |
| 1 3/4 | | | | | 2 1/4 | --- | --- | --- | --- | |
| 2 1/4 | | | | | 3 | --- | --- | --- | --- | |
| Hex Size | Torque Capacity** | | | | Screw Interchangeability | | | | | |

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| Metric | Bondhus® Straight Hex | | Bondhus® Ball End Tip | |  |  |  |  |  |
|--------|-----------------------|-------|-----------------------|-------|---|---|---|---|---|
| | in-lb | Nm | in-lb | Nm | | | | | |
| 1.27 | | | 3 | 3.39 | 1.4 | --- | --- | 2.5 | --- |
| 1.5 | 13.1 | 1.480 | 5 | .565 | 1.6, 2 | --- | --- | 3 | --- |
| 2 | 33 | 3.729 | 13 | 1.469 | 2.5 | 3 | 3 | 4 | --- |
| 2.5 | 63 | 7.119 | 33 | 3.729 | 13 | 1.469 | 2.5 | 5 | --- |
| 3 | 106 | 11.97 | 52 | 5.876 | 4 | 5 | 5 | 6 | 5 |
| 3.5 | | | 70 | 7.910 | | | | | |
| 4 | 264 | 29.83 | 131 | 14.8 | 5 | 6 | 6 | 8 | 6 |
| 4.5 | | | | | | | | | |
| 5 | 483 | 54.57 | 247 | 27.91 | 6 | 8 | 8 | 10 | 8 |
| 5.5 | | | | | | | | | |
| 6 | 855 | 96.61 | 396 | 44.74 | 8 | 10 | 10 | 12 | 10 |
| 7 | | | | | | | | | |
| 8 | 1861 | 210.2 | 989 | 111.7 | 10 | 12 | 12 | 14, 16 | 12 |
| 9 | | | | | | | | | |
| 10 | 3563 | 402.6 | 1591 | 179.7 | 12 | 14,16 | 14, 16 | 18, 20 | 16 |
| 12 | | | | | 14 | 18,20 | 18,20 | 22,, 24 | 20 |
| 14 | | | | | 16, 18 | 22, 24 | 22,24 | --- | --- |
| 17 | | | | | 20, 22 | --- | --- | --- | --- |
| 19 | | | | | 24, 27 | --- | --- | --- | --- |
| 22 | | | | | 30 | --- | --- | --- | --- |
| 27 | | | | | 36 | --- | --- | --- | --- |

**Minimum torque capacities Bondhus® tools generate without breakage. Other manufacturer's tools may break with considerably less torque.







Torx® Screw Interchangeability

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(Bondhus® BallStar™ keys fit all of the following screw types)

| Size |  | |  | |  | |  | |  | |  |
|------|---|-------------|---|-------------|---|-------------|---|-----------|---|--------|---|
| | Pan Head | | Flat Head | | Socket Head | | Socket Button | | Truss Head | | Fillster Head |
| | Inch | Metric | Inch | Metric | Inch | Metric | Inch | Metric | Inch | Metric | Inch |
| 1 | --- | M0.9 | --- | M0.9 & M1 | --- | M0.9 | --- | --- | --- | --- | --- |
| 2 | --- | M1 | --- | M1.2 | --- | M1 | --- | --- | --- | --- | --- |
| 3 | --- | M1.2 | #0 | | | | --- | --- | --- | --- | --- |
| 5 | #0 | M1.4 & M1.6 | #1 | M1.6 & M1.8 | --- | M1.4 & M1.6 | --- | --- | --- | --- | --- |
| 6 | #1 | M1.8 & M2 | #2 | M2 | #0 | M1.8 & M2 | #2 | --- | #2 | --- | #1 |
| 7 | #2 | --- | --- | -- | #1 | --- | #3 | --- | #3 | --- | #2 |
| 8 | #3 | M2.5 | #3 & #4 | M2.5 | #3 & #4 | M2.5 | #4 | M3 | #4 | --- | #3 |
| 10 | #4 & #5 | M3 | #5 & #6 | M3 | #4 & #5 | M3 | #5 & #6 | M3.5 | #5 & #6 | M3.5 | #4 & #5 |
| 15 | 6 | M3.5 | #8 | M3.5 | #6 | M3.5 | #8 | M4 | #8 | M4 | #6 |
| 20 | #8 | M4 | #10 | M4 | --- | --- | --- | --- | #10 | M5 | #8 |
| 25 | #10 | M5 | #12 | M5 | #8 | M4 | #10 | M5 | #12 | --- | #10 |
| 27 | #12 | --- | 1/4 | --- | #10 | M4.5 & M5 | 1/4 | M6 | 1/4 | --- | #12 |
| 30 | 1/4 | M6 | --- | M6 | 1/4 | M6 | --- | --- | 5/16 | M6 | 1/4 |
| 40 | 5/16 | M8 | 5/16 | M8 | --- | M7 | 5/16 | M8 | 3/8 | M8 | 5/16 |
| 45 | 3/8 | --- | 3/8 | --- | 5/16 | M8 | 3/8 | M10 | 7/16 | --- | 3/8 |
| 50 | 7/16 | M10 | 7/16 & 1/2 | M10 | 3/8 | M10 | --- | --- | 1/2 | M10 | 7/16 |
| 55 | 1/2 | M12 | 9/16 & 5/8 | M12 | 7/16 & 1/2 | M12 | 1/2 | M12 & M14 | 9/16 & 5/8 | M12 | 1/2 & 9/16 |
| 60 | --- | --- | 3/4 | --- | 9/16 | M14 | 5/8 | M16 | 3/4 | --- | 5/8 |
| 70 | --- | --- | --- | --- | 5/8 | M16 | --- | --- | --- | --- | 3/4 |
| 80 | --- | --- | --- | --- | 3/4 | M18 | --- | --- | --- | --- | --- |
| 90 | --- | --- | --- | --- | --- | M20 | --- | --- | --- | --- | --- |
| 100 | --- | --- | --- | --- | 7/8 & 1 | M22 & M24 | --- | --- | --- | --- | --- |