

# Wrench & Socket Size Chart

[jandesupply.com/reference-wrench-size.php](http://jandesupply.com/reference-wrench-size.php)

A wrench size is **not** the bolt's diameter — it's the distance **across the flats** of the head. A **1/2" bolt takes a 3/4" wrench**. Sizes are nominal across-flats for finished hex (ANSI B18.2.1) and heavy hex (ASME B18.2.2).

## WRENCH & SOCKET SIZE

across the flats

| BOLT DIA. | STANDARD HEX | HEAVY HEX |
|-----------|--------------|-----------|
| 1/4"      | 7/16"        | —         |
| 5/16"     | 1/2"         | —         |
| 3/8"      | 9/16"        | —         |
| 7/16"     | 5/8"         | —         |
| 1/2"      | 3/4"         | 7/8"      |
| 9/16"     | 13/16"       | 15/16"    |
| 5/8"      | 15/16"       | 1-1/16"   |
| 3/4"      | 1-1/8"       | 1-1/4"    |
| 7/8"      | 1-5/16"      | 1-7/16"   |
| 1"        | 1-1/2"       | 1-5/8"    |
| 1-1/8"    | 1-11/16"     | 1-13/16"  |
| 1-1/4"    | 1-7/8"       | 2"        |
| 1-3/8"    | 2-1/16"      | 2-3/16"   |
| 1-1/2"    | 2-1/4"       | 2-3/8"    |

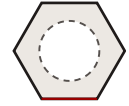
**Heavy hex runs one size up** — structural bolts (A325, A490) and heavy nuts. **The nut matches the head:** a finished hex nut takes the same wrench as a standard hex bolt. Square heads and lags use the standard column.

## ACTUAL-SIZE HEADS

standard hex, seen from the top



**1/4"** bolt  
7/16" wrench



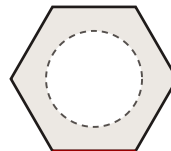
**5/16"** bolt  
1/2" wrench



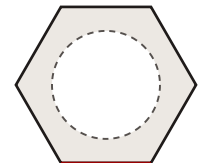
**3/8"** bolt  
9/16" wrench



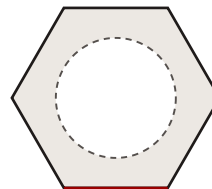
**7/16"** bolt  
5/8" wrench



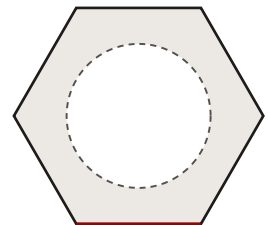
**1/2"** bolt  
3/4" wrench



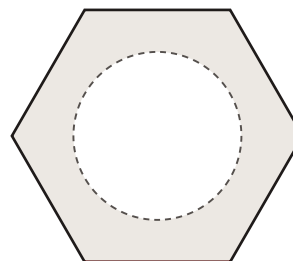
**9/16"** bolt  
13/16" wrench



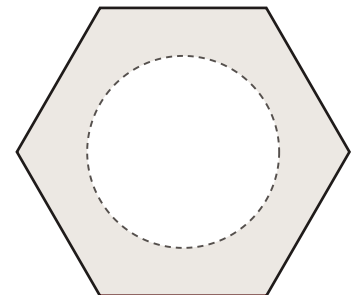
**5/8"** bolt  
15/16" wrench



**3/4"** bolt  
1-1/8" wrench



**7/8"** bolt  
1-5/16" wrench



**1"** bolt  
1-1/2" wrench

**Lay the head on the outline.** The hexagon it covers exactly is its size; the crimson line is the wrench opening (across the flats). Dashed circle = the bolt's own diameter.



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**Print at Actual Size (100%)** — not "fit to page."

This bar should measure exactly 2":

