

# US Machine Screw Diameter and Thread Chart

**Tip:** Set your PDF viewer to "Actual size" before printing to maintain scale.

This printable 'lay-over' chart helps identify US machine screw diameter and thread count. Print at actual size and compare to screws for quick sizing.

| Size  | Major Diameter | Coarse TPI (UNC) | Fine TPI (UNF) | Tap Drill (Coarse) |
|-------|----------------|------------------|----------------|--------------------|
| #0    | 0.0600"        | 80               | -              | #53 (0.0595")      |
| #1    | 0.0730"        | 64               | 72             | #53 (0.0595")      |
| #2    | 0.0860"        | 56               | 64             | #50 (0.0700")      |
| #3    | 0.0990"        | 48               | 56             | #47 (0.0785")      |
| #4    | 0.1120"        | 40               | 48             | #43 (0.0890")      |
| #5    | 0.1250"        | 40               | 44             | #38 (0.1015")      |
| #6    | 0.1380"        | 32               | 40             | #36 (0.1065")      |
| #8    | 0.1640"        | 32               | 36             | #29 (0.1360")      |
| #10   | 0.1900"        | 24               | 32             | #25 (0.1495")      |
| #12   | 0.2160"        | 24               | 28             | #16 (0.1770")      |
| 1/4"  | 0.2500"        | 20               | 28             | #7 (0.2010")       |
| 5/16" | 0.3125"        | 18               | 24             | F (0.2570")        |
| 3/8"  | 0.3750"        | 16               | 24             | 5/16" (0.3125")    |

## Common Machine Screw Head Styles

| Head Style     | Description              | Typical Use                       |
|----------------|--------------------------|-----------------------------------|
| Pan Head       | Low profile, rounded top | General purpose, most common      |
| Flat Head      | 82° countersunk          | Flush mounting, countersunk holes |
| Round Head     | Dome-shaped              | Decorative, exposed applications  |
| Oval Head      | Raised countersunk       | Decorative flush mounting         |
| Fillister Head | Deep drive socket        | High torque applications          |
| Truss Head     | Extra-wide, low profile  | Large surface bearing area        |

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## Common Drive Types

| Drive Type         | Torque Capacity | Best For                               |
|--------------------|-----------------|--|
| Phillips           | Medium          | General assembly, quick installation   |
| Slotted            | Low             | Light-duty, decorative applications    |
| Hex Socket (Allen) | Very High       | High-torque, precision applications    |
| Torx               | Very High       | Electronics, automotive, no cam-out    |
| Square (Robertson) | High            | Wood, construction (popular in Canada) |

## How to Use This Chart

- 1. **Measure screw diameter** with calipers or screw gauge
- 2. **Count threads** in one inch to determine TPI
- 3. **Compare to chart** to identify screw size (e.g., 6-32, 10-24)
- 4. **Tap drill size** indicates the correct drill bit for threading holes

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