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Suggested Drilling Speeds*

| Feet per minute | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------|
| Above figures represent speeds at which outer edge of drill is rotating in feet per minute | | | | | | | | | | | | | | |
| Diameter in inches | RPM | | | | | | | | | | | | | Decimal equiv. |
| 1/16 | 1833 | 2445 | 3057 | 3669 | 4281 | 4893 | 5505 | 6117 | 6729 | 7341 | 7953 | 8565 | 9177 | 0.0625 |
| 1/8 | 917 | 1222 | 1527 | 1832 | 2137 | 2442 | 2747 | 3052 | 3357 | 3662 | 3967 | 4272 | 4577 | 0.1250 |
| 3/16 | 611 | 815 | 1019 | 1223 | 1427 | 1631 | 1835 | 2039 | 2243 | 2447 | 2651 | 2855 | 3059 | 0.1875 |
| 1/4 | 458 | 611 | 764 | 917 | 1070 | 1223 | 1376 | 1529 | 1682 | 1835 | 1988 | 2141 | 2294 | 0.2500 |
| 5/16 | 367 | 489 | 611 | 733 | 855 | 977 | 1099 | 1221 | 1343 | 1465 | 1587 | 1709 | 1831 | 0.3125 |
| 3/8 | 306 | 407 | 508 | 609 | 710 | 811 | 912 | 1013 | 1114 | 1215 | 1316 | 1417 | 1518 | 0.3750 |
| 7/16 | 262 | 349 | 436 | 523 | 610 | 697 | 784 | 871 | 958 | 1045 | 1132 | 1219 | 1306 | 0.4375 |
| 1/2 | 229 | 306 | 383 | 460 | 537 | 614 | 691 | 768 | 845 | 922 | 999 | 1076 | 1153 | 0.5000 |
| 5/8 | 183 | 244 | 305 | 366 | 427 | 488 | 549 | 610 | 671 | 732 | 793 | 854 | 915 | 0.6250 |
| 3/4 | 153 | 203 | 253 | 303 | 353 | 403 | 453 | 503 | 553 | 603 | 653 | 703 | 753 | 0.7500 |
| 7/8 | 131 | 175 | 219 | 263 | 307 | 351 | 395 | 439 | 483 | 527 | 571 | 615 | 659 | 0.8750 |
| 1 | 115 | 153 | 191 | 229 | 267 | 305 | 343 | 381 | 419 | 457 | 495 | 533 | 571 | 1.0000 |
| 1 1/8 | 102 | 136 | 170 | 204 | 238 | 272 | 306 | 340 | 374 | 408 | 442 | 476 | 510 | 1.1250 |
| 1 1/4 | 92 | 122 | 152 | 182 | 212 | 242 | 272 | 302 | 332 | 362 | 392 | 422 | 452 | 1.2500 |
| 1 3/8 | 83 | 111 | 139 | 167 | 195 | 223 | 251 | 279 | 307 | 335 | 363 | 391 | 419 | 1.3750 |
| 1 1/2 | 76 | 102 | 128 | 154 | 180 | 206 | 232 | 258 | 284 | 310 | 336 | 362 | 388 | 1.5000 |
| 1 5/8 | 70 | 94 | 118 | 142 | 166 | 190 | 214 | 238 | 262 | 286 | 310 | 334 | 358 | 1.6250 |
| 1 3/4 | 65 | 87 | 109 | 131 | 153 | 175 | 197 | 219 | 241 | 263 | 285 | 307 | 329 | 1.7500 |
| 1 7/8 | 61 | 81 | 101 | 121 | 141 | 161 | 181 | 201 | 221 | 241 | 261 | 281 | 301 | 1.8750 |
| 2 | 57 | 76 | 95 | 114 | 133 | 152 | 171 | 190 | 209 | 228 | 247 | 266 | 285 | 2.0000 |

Recommended speed in feet per minute for different materials

| Low carbon steel Soft cast iron Malleable iron | Medium carbon steel Hard cast iron | High carbon steel | Stainless Steel | Aluminum Brass Bronze |
|--|---------------------------------------|-------------------|-----------------|-----------------------------|
| 80-100 | 70-80 | 50-60 | 30-40 | 200-300 |

*using high speed steel drills