

Product Information Sheet

HEX CAP SCREWS, INCH SERIES, GRADE 8

Typical Material: Medium Carbon Alloy Steel

Material and Mechanical Properties: 1/4 to 1 1/2 are purchased to meet SAE J429 Grade 8. Diameters over 1 1/2 are purchased to meet ASTM A354 Grade BD

Dimensions: ASME B18.2.2 Hex Cap Screw exceptions below, Rolled Threads

- 1 3/8 to 2 inch diameters are Hex Bolts
- Over 2 inches are Heavy Hex Bolts

Typical Hardness: HRC 33-39 on sizes 1/4 to 2 1/2 inches; HRC 31-39 on sizes over 2 1/2 inches

Tensile Strength: 150,000 PSI Minimum on sizes 1/4 to 2 1/2 inches; 140,000 PSI Minimum on sizes over 2 1/2 inches



| TENSILE STRENGTH -NC THREADS | | | TENSILE STRENGTH -NF THREADS | | |
|------------------------------|---------|---------|------------------------------|---------|---------|
| Size | PSI | Pounds | Size | PSI | Pounds |
| 1/4-20 | 150,000 | 4750 | 1/4-28 | 150,000 | 5450 |
| 5/16-18 | 150,000 | 7850 | 5/16-24 | 150,000 | 8700 |
| 3/8-16 | 150,000 | 11,600 | 3/8-24 | 150,000 | 13,200 |
| 7/16-14 | 150,000 | 15,900 | 7/16-20 | 150,000 | 17,800 |
| 1/2-13 | 150,000 | 21,300 | 1/2-20 | 150,000 | 24,000 |
| 9/16-12 | 150,000 | 27,300 | 9/16-18 | 150,000 | 30,400 |
| 5/8-11 | 150,000 | 33,900 | 5/8-18 | 150,000 | 38,400 |
| 3/4-10 | 150,000 | 50,100 | 3/4-16 | 150,000 | 56,000 |
| 7/8-9 | 150,000 | 69,300 | 7/8-14 | 150,000 | 76,400 |
| 1-8 | 150,000 | 90,900 | 1-12 | 150,000 | 99,400 |
| 1 1/8-7 | 150,000 | 114,400 | 1-14 | 150,000 | 101,900 |
| 1 1/4-7 | 150,000 | 145,400 | 1 1/8-12 | 150,000 | 128,400 |
| 1 3/8-6 | 150,000 | 173,400 | 1 1/4-12 | 150,000 | 161,000 |
| 1 1/2-6 | 150,000 | 210,800 | 1 3/8-12 | 150,000 | 197,200 |
| 1 3/4-5 | 150,000 | 285,000 | 1 1/2-12 | 150,000 | 237,200 |
| 2-4 1/2 | 150,000 | 375,000 | | | |
| 2 1/4-4 1/2 | 150,000 | 487,000 | | | |
| 2 1/2-4 | 150,000 | 600,000 | | | |



GLASER & ASSOCIATES, INC.

4808 SUNRISE DRIVE, MARTINEZ, CA 94553

TOLL FREE: (855)532-2658 • WWW.GLASERBOLT.COM

The information presented is believed to be accurate at the time of document creation. However, Glaser & Associates is not responsible for any claim traceable to any errors (typographical or otherwise) as contained herein. Glaser & Associates makes no warranties as to the accuracy of this information.