

| Screw Size | Major Diameter | TPI | Minor Diameter | Tap Drill                                |          |  |          | Clearance Drill |          |            |          | Socket Head Cap Screws |             |          |        |        |
|------------|----------------|-----|----------------|--|----------|--|----------|-----------------|----------|------------|----------|------------------------|-------------|----------|--------|--------|
|            |                |     |                | 75% Thread for Aluminum, Brass, Plastics |          | 50% Thread for Stainless, Cast Iron & Iron |          | Close Fit       |          | Free Fit   |          | Hex                    | Counterbore |          |        |        |
|            |                |     |                | Drill Size                               | Dec. Eq. | Drill Size                                 | Dec. Eq. | Drill Size      | Dec. Eq. | Drill Size | Dec. Eq. |                        | Drill Size  | Dec. Eq. | Depth  |        |
| 0          | .0600          | 80  | .0447          | 3/64                                     | .0469    | 55   | .0520    | 52              | .0635    | 50         | .0700    | 0.050                  | 1/8         | .125     | .0740  |        |
| 1          | .0730          | 64  | .0538          | 53                                       | .0595    | 1/16                                       | .0625    | 48              | .0760    | 46         | .0810    | 1/16                   | 5/32        | .1562    | .0870  |        |
|            |                | 72  | .0560          | 53                                       | .0595    | 52   | .0635    |                 |          | 43         | .0890    | 41                     | .0960       | 5/64     | .1875  | .1020  |
| 2          | .0860          | 56  | .0641          | 50                                       | .0700    | 49   | .0730    | 37              | .1040    | 35         | .1100    | 5/64                   | 7/32        | .2188    | .1150  |        |
|            |                | 64  | .0668          | 50                                       | .0700    | 48   | .0760    |                 |          | 32         | .1160    | 30                     | .1285       | 7/32     | .2188  | .1300  |
| 3          | .0990          | 48  | .0734          | 47                                       | .0785    | 44   | .0860    | 30              | .1285    | 29         | .1360    | 3/32                   | 1/4         | .2500    | .1450  |        |
|            |                | 56  | .0771          | 45                                       | .0820    | 43   | .0890    |                 |          | 27         | .1440    | 25                     | .1495       | 7/64     | .2812  | .1580  |
| 4          | .1120          | 40  | .0813          | 43                                       | .0890    | 41   | .0960    | 18              | .1695    | 16         | .1770    | 9/64                   | 5/16        | .3125    | .1880  |        |
|            |                | 48  | .0864          | 42                                       | .0935    | 40   | .0980    |                 |          | 9          | .1960    | 7                      | .2010       | 5/32     | .3750  | .2180  |
| 5          | .125           | 40  | .0943          | 38                                       | .1015    | 7/64                                       | .1094    | 2               | .2210    | 1          | .2280    | 5/32                   | 3/8         | .3750    | .2180  |        |
|            |                | 44  | .0971          | 37                                       | .1040    | 35   | .1100    |                 |          | F          | .2570    | H                      | .2660       | 3/16     | .4375  | .2780  |
| 6          | .138           | 32  | .0997          | 36                                       | .1065    | 32   | .1160    | P               | .3230    | Q          | .3320    | 1/4                    | 17/32       | .5312    | .3460  |        |
|            |                | 40  | .1073          | 33                                       | .1130    | 31   | .1200    |                 |          | W          | .3860    | X                      | .3970       | 5/16     | .6250  | .4150  |
| 8          | .1640          | 32  | .1257          | 29                                       | .1360    | 27   | .1440    | 29/64           | .4531    | 15/32      | .4688    | 3/8                    | 23/32       | .7188    | .4830  |        |
|            |                | 36  | .1299          | 29                                       | .1360    | 26   | .1470    |                 |          | 14         | .4750    | 13/32                  | .4888       | 1/2      | .9062  | .5940  |
| 10         | .1900          | 24  | .1389          | 25                                       | .1495    | 20   | .1610    | 33/64           | .5156    | 17/32      | .5312    | 3/8                    | 13/16       | .8125    | .5520  |        |
|            |                | 32  | .1517          | 21                                       | .1590    | 18   | .1695    |                 |          | 41/64      | .6406    | 21/32                  | .6562       | 1/2      | 29/32  | .9062  |
| 12         | .2160          | 24  | .1649          | 16                                       | .1770    | 12   | .1890    | 49/64           | .7656    | 25/32      | .7812    | 5/8                    | 1-3/16      | 1.1875   | .8280  |        |
|            |                | 28  | .1722          | 14                                       | .1820    | 10   | .1935    |                 |          | 45/64      | .7031    | 23/32                  | .7188       | 1/2      | .9062  | .5940  |
|            |                | 32  | .1777          | 13                                       | .1850    | 9  | .1960    |                 |          | 57/64      | .8906    | 29/32                  | .9062       | 3/4      | 1-3/8  | 1.3750 |
| 1/4        | .2500          | 20  | .1887          | 7  | .2010    | 7/32                                       | .2188    | W               | .3860    | X          | .3970    | 5/16                   | .6250       | .4150    | .2780  |        |
|            |                | 28  | .2062          | 3  | .2130    | 1  | .2280    |                 |          | 29/64      | .4531    | 15/32                  | .4688       | 3/8      | .7188  | .4830  |
|            |                | 32  | .2117          | 7/32                                     | .2188    | 1  | .2280    |                 |          | 49/64      | .7656    | 25/32                  | .7812       | 5/8      | 1-3/16 | 1.1875 |
| 5/16       | .3125          | 18  | .2443          | F  | .2570    | J  | .2770    | P               | .3230    | Q          | .3320    | 1/4                    | 17/32       | .5312    | .3460  |        |
|            |                | 24  | .2614          | I  | .2720    | 9/32                                       | .2812    |                 |          | 41/64      | .6406    | 21/32                  | .6562       | 1/2      | 29/32  | .9062  |
|            |                | 32  | .2742          | 9/32                                     |          | L  | .2900    |                 |          | 45/64      | .7031    | 23/32                  | .7188       | 1/2      | 29/32  | .9062  |
| 3/8        | .3750          | 16  | .2983          | 5/16                                     | .3125    | Q  | .3320    | W               | .3860    | X          | .3970    | 5/16                   | .6250       | .4150    | .2780  |        |
|            |                | 24  | .3239          | Q  | .3320    | S  | .3480    |                 |          | 49/64      | .4531    | 15/32                  | .4688       | 3/8      | .7188  | .4830  |
|            |                | 32  | .3367          | 11/32                                    | .3438    | T  | .3580    |                 |          | 57/64      | .8906    | 29/32                  | .9062       | 3/4      | 1-3/8  | 1.3750 |
| 7/16       | .4375          | 14  | .3499          | U  | .3680    | 25/64                                      | .3906    | 49/64           | .7656    | 21/32      | .7812    | 5/8                    | 1-3/16      | 1.1875   | .8280  |        |
|            |                | 20  | .3762          | 25/64                                    | .3906    | 13/32                                      | .4062    |                 |          | 45/64      | .7031    | 23/32                  | .7188       | 1/2      | 29/32  | .9062  |
|            |                | 28  | .3937          | Y  | .4040    | Z  | .4130    |                 |          | 57/64      | .8906    | 29/32                  | .9062       | 3/4      | 1-3/8  | 1.3750 |
| 1/2        | .5000          | 13  | .4056          | 27/64                                    | .4219    | 29/64                                      | .4531    | 33/64           | .5156    | 17/32      | .5312    | 3/8                    | 13/16       | .8125    | .5520  |        |
|            |                | 20  | .4387          | 29/64                                    | .4531    | 15/32                                      | .4688    |                 |          | 41/64      | .6406    | 21/32                  | .6562       | 1/2      | 29/32  | .9062  |
|            |                | 28  | .4562          | 15/32                                    | .4688    | 15/32                                      | .4688    |                 |          | 45/64      | .7031    | 23/32                  | .7188       | 1/2      | 29/32  | .9062  |
| 9/16       | .5625          | 12  | .4603          | 31/64                                    | .4844    | 33/64                                      | .5156    | 37/64           | .5781    | 19/32      | .5938    | 1/2                    | 29/32       | .9062    | .5940  |        |
|            |                | 18  | .4943          | 33/64                                    | .5156    | 17/32                                      | .5312    |                 |          | 41/64      | .6406    | 21/32                  | .6562       | 1/2      | 29/32  | .9062  |
|            |                | 24  | .5114          | 33/64                                    | .5156    | 17/32                                      | .5312    |                 |          | 45/64      | .7031    | 23/32                  | .7188       | 1/2      | 29/32  | .9062  |
| 5/8        | .6250          | 11  | .5135          | 17/32                                    | .5312    | 9/16                                       | .5625    | 49/64           | .7656    | 25/32      | .7812    | 5/8                    | 1-3/16      | 1.1875   | .8280  |        |
|            |                | 18  | .5568          | 37/64                                    | .5781    | 19/32                                      | .5938    |                 |          | 45/64      | .7031    | 23/32                  | .7188       | 1/2      | 29/32  | .9062  |
|            |                | 24  | .5739          | 37/64                                    | .5781    | 19/32                                      | .5938    |                 |          | 57/64      | .8906    | 29/32                  | .9062       | 3/4      | 1-3/8  | 1.3750 |
| 11/16      | .6875          | 24  | .6364          | 41/64                                    | .6406    | 21/32                                      | .6562    | 49/64           | .7656    | 25/32      | .7812    | 5/8                    | 1-3/16      | 1.1875   | .8280  |        |
| 3/4        | .7500          | 10  | .6273          | 21/32                                    | .6562    | 11/16                                      | .6875    | 1-1/64          | 1.0156   | 31/32      | .9688    | 3/4                    | 1-5/8       | 1.6250   | 1.1000 |        |
|            |                |     |                |  |          |  |          |                 |          |            |          |                        |             |          |        |        |

| Flat Head Cap Screws |                   |
|----------------------|-------------------|
| Hex                  | Countersink Depth |
| 0.035                | .0440             |
| 1/20                 | .0540             |
| 1/20                 | .0640             |
| 1/16                 | .0730             |
| 1/16                 | .0830             |
| 5/64                 | .0900             |
| 5/64                 | .0970             |
| 3/32                 | .1120             |
| 1/8                  | .1270             |
| 1/8                  | .1350             |
| 5/32                 | .1610             |
| 3/16                 | .1980             |
| 7/32                 | .2340             |
| 1/4                  | .2340             |
| 5/16                 | .2510             |
|                      |                   |
| 3/8                  | .3240             |
|                      |                   |
| 1/2                  | .3960             |
|                      |                   |
| 9/16                 | .4680             |
|                      |                   |
| 5/8                  | .5400             |