



### Socket Head Cap Screw Information



**Standard**  
Features a relatively high cylindrical head with a recessed hexagonal socket. Use where maximum tensile strength is essential. See page 2113, 2114, 2115.



**Button**  
Dome-shaped head has wider hex socket and lower profile than standard. Ideal for lighter applications with low limited clearance where loading capacity is not critical. See page 2121.



**Flange**  
Projecting collar around bottom of head acts like a washer, dispersing the load on the bearing surface. Use when a wider bearing surface or a more-finished appearance is desired, and with thinner materials. Go to Grainger.com® and search for "Flange Socket Head Cap Screws."



**Flat**  
Features an 82° countersunk flat head. Flush mounts so moving parts can pass over freely. Not ideal for applications that require optimal fatigue properties. See page 2119.



**Low**  
Head height is 50% lower than standard size; socket size is smaller. Used in thinner materials and where clearance is too limited to use a full-height cap screw. Cannot withstand the same preloads and standard socket-head cap screws. See page 2121.



**Vented**  
A small hole drilled through the entire length of the cap screw allows gas and fluids to vent. See page 2115.



### Socket Head Cap Screw Refills and Assortments



No. of Pieces	Head Type	No. of Sizes	Includes	System of Measurement	Item No.
169	Hex Socket	24	(10) Each: M4-0.70 x 10mm, x12mm, x16mm, M5-0.80 x 12mm, x16mm, x20mm, M6-1.00 x 12mm, (8) Each: M5-0.80 x 30mm, M6-1.00 x 16mm, x20mm, x25mm, (6) Each: M6-1.00 x 30mm, x40mm, x45mm, x50mm, M8-1.25 x 20mm, (5) Each: M8-1.25 x 25mm, x30mm, x40mm, x50mm, x60mm, (4) Each: M10-1.50 x 25mm, x30mm, x35mm, and Metal Container	Metric	53WP99
106	—	9	25 Each 8-32 x 1/2, 10-24 x 1/2, 20 Each 10-24 x 1, 10 Each 1/4-20 x 1/2, 1/4-20 x 1, 5 Each 5/16-18 x 1, 3/8-18 x 1 1/2, 3 Each 3/8-16 x 1, 3/8-16 x 1 1/2	Inch	3KZC9
170	Socket	12	(20) Each: 6-32x1/2 in, 8-32x1/2 in, 10-24x1/2 in, x3/4 in, x1 in, (10) Each: 1/4"-20x1/2 in, x3/4 in, x1 in, 5/16"-18x1 in, x1 1/2 in, And Plastic Case	Inch	13E070
300	Button	12	(25) Each: 6-32x3/8 in, x1/2 in, 8-32x3/8 in, x1/2 in, 10-24x3/8 in, x1/2 in, x3/4 in, 1/4"-20x1/2 in, x3/4 in, x1 in, 5/16"-18x3/4 in, x1 in, and Plastic Case	Inch	13E071
300	Flat	12	(25) Each: 6-32x3/8 in, 6-32x1/2 in, 8-32x3/8 in, 8-32x1/2 in, 10-24x3/8 in, 10-24x1/2 in, 10-24x3/4 in, 1/4"-20x1/2 in, 1/4"-20x3/4 in, 1/4"-20x1 in, 5/16"-18x3/4 in, 5/16"-18x1 in, Plastic Case	Inch	13E072

### Socket-Head Cap Screw Assortments and Refills

No. of Pieces	Head Type	No. of Sizes	Includes	Item No.
120	Flat	24	(5) Each: 8-32x1/2 in, x5/8 in, x3/4 in, 10-24x1/2 in, x3/4 in, 10-32x3/8 in, x1/2 in, x3/4 in, 1/4"-20x1/2 in, x5/8 in, x3/4 in, x1 in, x1 1/4 in, 5/16"-18x1/2 in, x5/8 in, x3/4 in, x1 in, x1 1/2 in, 3/8"-24x5/8 in, x3/4 in, x1 in, 3/8"-16x3/4 in, x1 in, 3/8"-24x1 in, Plastic Container	4GXU4
120	Standard	24	(5) Each: 1/4"-28x5/8 in, x3/4 in, x7/8 in, x1 in, x1 1/4 in, x1 1/2 in, x1 3/4 in, x2 in, x2 1/4 in, 5/16"-24x5/8 in, x3/4 in, x7/8 in, x1 in, x1 1/4 in, x1 1/2 in, x1 3/4 in, x2 in, x2 1/4 in, 3/8"-24x3/4 in, x1 in, x1 1/4 in, x1 1/2 in, x1 3/4 in, x2 in, Plastic Container	4GXU8
120	Standard	24	(5) Each: 1/4"-20x5/8 in, x3/4 in, x7/8 in, x1 in, x1 1/4 in, x1 1/2 in, x1 3/4 in, x2 in, x2 1/4 in, 3/8"-18x5/8 in, x3/4 in, x7/8 in, x1 in, x1 1/4 in, 1 1/2 in, x1 3/4 in, x2 in, 1/4 in, 3/8"-16x3/4 in, x1 in, x1 1/4 in, x1 1/2 in, x1 3/4 in, x2 in, Plastic Container	2FUU1
120	Button	24	(5) Each: 8-32x1/2 in, x5/8 in, x3/4 in, 10-24x1/2 in, 10-32x1/2 in, x3/4 in, x1 in, 1/4"-20x3/4 in, x7/8 in, x1 in, 1/4"-28x1/2 in, x3/4 in, x1 in, 5/16"-18x1/2 in, x3/4 in, x1 in, 5/16"-24x3/8 in, x1/2 in, x1 in, 3/8"-16x3/4 in, x1 in, 3/8"-24x3/4 in, x1 in, Plastic Container	2FUH5

Dia./Thread Size	L	Item No.	Dia./Thread Size	L	Item No.	Dia./Thread Size	L	Item No.	Dia./Thread Size	L	Item No.
1/4"-20	3/8 in	2FU4	8-32	1/2 in	2FU6	1/4"-20	1/2 in	4GU1	1/4"-28	3/8 in	4GV3
1/4"-20	3/4 in	2FU3	8-32	5/8 in	2FU2	1/4"-20	3/4 in	4GU2	1/4"-28	3/4 in	4GV4
1/4"-20	7/8 in	2UG7	8-32	3/4 in	2FUP3	1/4"-20	3/4 in	4GU3	1/4"-28	7/8 in	4GV5
1/4"-20	1 1/4 in	2FU8	10-24	1/2 in	2UG6	1/4"-20	1 in	4GU4	1/4"-28	1 in	4GV6
1/4"-20	1 1/2 in	2FU5	10-32	1/2 in	2FU7	1/4"-20	1 1/4 in	4GU5	1/4"-28	1 1/4 in	4GV7
1/4"-20	1 3/4 in	2FUL4	10-32	3/4 in	2FUT1	1/4"-20	1 1/2 in	4GU6	1/4"-28	1 1/2 in	4GV8
1/4"-20	2 in	2FUP4	10-32	1 in	2FUG4	1/4"-20	1 3/4 in	4GU7	1/4"-28	1 3/4 in	4GV9
1/4"-20	2 1/4 in	2FUL5	1/4"-20	5/8 in	2FUA7	1/4"-20	3/4 in	4GU8	1/4"-28	2 in	4VH1
1/4"-20	2 in	2FUT2	1/4"-20	3/4 in	2FUJ8	1/4"-20	1 in	4GU9	1/4"-28	2 1/4 in	4VH2
5/16"-18	3/8 in	2FUP5	1/4"-20	7/8 in	2FUF1	1/4"-20	1 1/4 in	4GU1	5/16"-24	3/8 in	4VH3
5/16"-18	3/4 in	2FUT3	1/4"-20	1 in	2FUA9	1/4"-20	1 1/2 in	4GU2	5/16"-24	3/4 in	4VH4
5/16"-18	7/8 in	2FUP6	1/4"-28	1/2 in	2FUB2	1/4"-20	1 in	4GU3	5/16"-24	7/8 in	4VH5
5/16"-18	1 1/2 in	2FU01	1/4"-28	3/4 in	2FUJ9	1/4"-20	1 1/4 in	4GU4	5/16"-24	1 in	4VH6
5/16"-18	1 in	2FUG9	5/16"-18	1 in	2FUG8	5/16"-18	1/2 in	4GU5	5/16"-24	1 1/4 in	4VH7
5/16"-18	1 3/4 in	2FUH1	5/16"-18	1/2 in	2FUG5	5/16"-18	3/8 in	4GU6	5/16"-24	1 1/2 in	4VH8
5/16"-18	1 1/4 in	2FUL6	5/16"-18	3/4 in	2FUG6	5/16"-18	3/4 in	4GU7	5/16"-24	1 3/4 in	4VH9
5/16"-18	2 in	2FUT4	5/16"-18	1 in	2FUG7	5/16"-18	1 in	4GU8	5/16"-24	2 in	4VJ1
5/16"-18	2 1/4 in	2FUT5	5/16"-24	3/8 in	2JGF5	5/16"-18	1 1/4 in	4GU9	5/16"-24	2 1/4 in	4VJ2
3/8"-16	3/4 in	2FU02	5/16"-24	1/2 in	2FUL3	5/16"-24	3/8 in	4GA1	3/8"-24	3/4 in	4VJ3
3/8"-16	1 in	2FUL7	5/16"-24	1 in	2FUF2	5/16"-24	3/4 in	4GA2	3/8"-24	1 in	4VJ4
3/8"-16	1 3/4 in	2FUP7	3/8"-16	3/4 in	2FUB1	5/16"-24	1 in	4VA3	3/8"-24	1 1/4 in	4VJ5
3/8"-16	1 1/2 in	2FUT6	3/8"-16	1 in	2FUA8	3/8"-16	3/4 in	4VA4	3/8"-24	1 1/2 in	4VJ6
3/8"-16	1 1/4 in	2JGF9	3/8"-24	3/4 in	2FUF3	3/8"-16	1 in	4VA5	3/8"-24	1 3/4 in	4VJ7
3/8"-16	2 in	2FUL8	3/8"-24	1 in	2JGF8	3/8"-24	1 in	4VA6	3/8"-24	2 in	4VJ8

