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# Torquing Specification Inch & Metric Fastener Chart



## Socket Head Cap Screws

Inch			Metric	
Nominal Size	Tightening Torque (In-Pounds)		Nominal Size	Tightening Torque (N•m)
	UNRC	UNRF		
0	-	2.6	M1.6	0.34
1	4.5	4.8	M2	0.69
2	7.5	8.0	M2.5	1.43
3	11.0	12.0	M3	2.48
4	16.0	18.0	M4	5.85
5	24.0	24.0	M5	12.0
6	30.0	34.0	M6	20.3
8	55.0	58.0	M8	48.8
10	79.0	90.0	M10	97.5
1/4	200.0	230.0	M12	165.0
5/16	415.0	460.0	M14	265.0
3/8	740.0	845.0	M16	413.0
7/16	1,190.0	1,305.0	M20	825.0
1/2	1,800.0	2,065.0	M24	1,425.0
5/8	3,400.0	3,800.0	M30	2,775.0
3/4	6,000.0	6,750.0	M36	4,875.0
7/8	8,250.0	9,200.0		
1	12,500.0	13,000.0		
1-1/4	25,000.0	27,750.0		
1-1/2	43,500.0	49,000.0		

## Button Head Cap Screws



Inch-Button Head		Metric-Button Head	
Nominal Size	Tightening Torque (In-Pounds)	Nominal Size	Tightening Torque (N•m)
4	8	M3 x 0.5	1.25
5	-	M4 x 0.7	2.9
6	15	M5 x 0.8	5.9
8	30	M6 x 1	10.0
10	65	M8 x 1.25	24.0
1/4	125	M10 x 1.5	48.0
5/16	200	M12 x 1.75	84.0
3/8	360	M16 x 2	207.0
1/2	1000	M20 x 2.5	-
5/8	1750		

NOTE: This specification is for Holo-Krome® alloy steel fasteners with thermal black finish and light oil.

# Flat Head Cap Screws



## Inch-Flat Head

## Metric-Flat Head

Nominal Size	Tightening Torque (In-Pounds)	Nominal Size	Tightening Torque (N•m)
4	9.5	M3 x 0.5	1.85
5	14.0	M4 x 0.7	3.4
6	18.0	M5 x 0.8	6.9
8	32.0	M6 x 1	12.0
10	75.0	M8 x 1.25	28.0
1/4	140.0	M10 x 1.5	56.0
5/16	245.0	M12 x 1.75	99.0
3/8	400.0	M16 x 2	246.0
7/16	600.0	M20 x 2.5	400.0
1/2	1,200.0		
5/8	2,000.0		
3/4	4,000.0		
7/8	6,000.0		
1	8,500.0		

# Shoulder Screws



Nominal Size	Tightening Torque (In-Pounds)	Nominal Size	Tightening Torque (N•m)
1/4	50	M5 x 0.8	6.9
5/16	125	M6 x 1	12.0
3/8	265	M8 x 1.25	28.0
1/2	470	M10 x 1.5	56.0
5/8	1,150	M12 x 1.75	99.0
3/4	2,000	M16 x 2	250.0
1	4,000	M20 x 2.5	400.0

# Cup Point Set Screws



## Inch-Cup Pt Set Screw

## Metric-Cup Pt Set Screw

Nominal Size	Tightening Torque (In-Pounds)	Nominal Size	Tightening Torque (N•m)
0	1.1	1.6	0.1
1	2.1	2.0	0.2
2	2.1	2.5	0.6
3	6.0	3.0	1.0
4	6.0	4.0	2.1
5	11.0	5.0	4.7
6	11.0	6.0	7.7
8	23.0	8.0	17.8
10	40.0	10.0	35.0
1/4	94.0	12.0	55.0
5/16	183.0	16.0	125.0
3/8	317.0	20.0	250.0
7/16	502.0	24.0	425.0
1/2	750.0		
5/8	1,460.0		
3/4	2,520.0		
7/8	5,750.0		
1	8,000.0		

# Low Head Cap Screws - Inch



Nominal Size	Tightening Torque (In-Pounds)	Nominal Size	Tightening Torque (In-Pounds)
4	5.0	5/16	150.0
5	9.5	3/8	275.0
6	9.5	7/16	425.0
8	19.0	1/2	600.0
10	30.0	5/8	1,300.0
1/4	75.0		