

# Metric Screws Head Dimensions

Head Type		Dim	Screw Size											
			M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10	M12	M16	M20
PAN		D	3.80	5.00	6.00	7.00	8.00	10.00	12.00	16.00	20.00			
		H	1.30	1.50	1.80	2.10	2.40	3.00	3.60	4.80	6.00			
		T	0.60	0.75	0.80	0.95	1.15	1.35	1.70	2.20	2.70			
		W	0.60	0.70	0.80	1.10	1.30	1.40	1.70	2.10	2.60			
CHEESE		D	3.80	4.50	5.50	6.00	7.00	8.50	10.00	13.00	16.00			
		H	1.30	1.60	2.00	2.40	2.60	3.30	3.90	5.00	6.00			
		T	0.90	1.00	1.30	1.40	1.60	2.00	2.30	2.80	3.20			
		W	0.70	0.80	1.00	1.10	1.20	1.50	1.90	2.30	2.80			
HEXAGON		A/F	3.20	4.00	5.50	6.00	7.00	8.00	10.00	13.00	17.00	19.00	24.00	30.00
		D	3.70	4.62	6.40	7.20	8.10	9.20	11.50	15.00	19.60	21.90	27.70	34.50
		H	1.15	1.30	2.00	2.40	2.80	3.50	4.00	5.50	7.00	8.00	10.00	13.00
COUNTERSUNK		D	3.80	4.70	5.60	6.5-8.2	7.5-9.4	9.20	11.00	15.4-17.3	18.00			
		H	1.20	1.50	1.65	2.30	2.70	2.50	3.00	4.00	5.00			
		T	0.50	0.60	0.70	1.20	1.30	1.20	1.50	1.80	2.30			
		W	0.50	0.60	0.80	1.20	1.50	1.20	1.60	2.00	2.50			
RAISED COUNTERSUNK		D	4.00	4.70	5.60	6.50	8.0-9.4	9.20	11.00	14.50	18.00			
		H	1.70	1.85	2.25	2.65	3.00	3.75	4.50	6.00	7.50			
		J	0.50	0.60	0.75	0.90	1.00	1.25	1.50	2.00	2.50			
		T	1.00	1.20	1.45	1.70	1.90	2.30	2.80	3.70	4.60			
THUMB		D			8.10	8.80	9.70	10.50	12.50					
		H			5.50	6.40	7.10	8.10	8.30					
		T			1.10	1.30	1.50	1.70	2.20					
		W			1.00	1.10	1.20	1.40	1.80					
GRUB		T			1.05	1.21						3.61		
		W			0.60	0.70						2.31		
		C					2.00	3.30	4.10	5.20	6.60			
		T					0.76	1.30	1.50	2.40	2.80			
HEXAGON SOCKET		A/F							5.00	6.00				
		D							10.22	13.27				
		H							6.00	8.00				
		T							3.00	4.00				
CUP SQUARE		A/F						5.48	6.48	8.58				
		D						13.55	16.55	20.65				
		H						3.30	3.88	4.88				
		T						4.10	4.60	5.60				
CROSS RECESSED PAN		D			5.60		8.00	9.50	12.00					
		H			2.40		3.10	3.70	4.60					
CROSS RECESSED COUNTERSUNK		D			5.50		8.40	9.30	11.30					
		H			1.65		2.70	2.70	3.30					

All dimensions shown are maximum

## Metric Screws Test Data

N/A = Test data not available

1N = 0.101 Kg  
1Nm = 8.851lbf-in

Above information is for guidance only and should not be used to establish specifications or as the basis of a design

Thread Size	Suggested Max. Tightening Torque Nm	Failure Torque Nm	Tensile		Double Shear	
			Yield N	Failure N	Yield N	Failure N
M2	N/A	N/A	7.12	N/A	89	116
M2.5	N/A	N/A	8.9	N/A	156	169
M3	0.22	0.32	22	N/A	294	329
M3.5	0.30	0.43	53	N/A	378	405
M4	0.36	0.45	214	N/A	600	636
M5	0.74	0.93	271	N/A	1081	1134
M6	1.46	1.83	845	912	1806	1877
M8	2.71	3.39	1677	1744	2980	3034
M10	4.25	5.31	2749	N/A	5026	5280