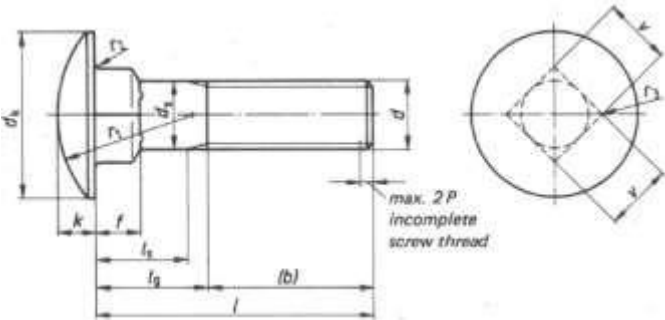




Product Dimensions, Standards and Weights

DIN 603 / ISO 8678 Technical Specifications

Metric DIN 603 / ISO 8678 Mushroom Head Square Neck Carriage Bolts



Dimensions of Metric DIN 603

Screw thread <i>d</i>		M 5	M 6	M 8	M 10	M 12	M 16	M 20
<i>P</i>	1)	0,8	1	1,25	1,5	1,75	2	2,5
<i>b</i>	2)	16	18	22	26	30	38	46
	3)	22	24	28	32	36	44	52
	4)	—	—	41	45	49	57	65
<i>d_k</i>	max.	13,55	16,55	20,65	24,65	30,65	38,8	46,8
	min.	12,45	15,45	19,35	23,35	29,35	37,2	45,2
<i>d_s</i> 5)	max.	5	6	8	10	12	16	20
	min.	4,52	5,52	7,42	9,42	11,3	15,3	19,16
<i>f</i>	max.	4,1	4,6	5,6	6,6	8,75	12,9	15,9
	min.	2,9	3,4	4,4	5,4	7,25	11,1	14,1
<i>k</i>	max.	3,3	3,88	4,88	5,38	6,95	8,95	11,05
	min.	2,7	3,12	4,12	4,62	6,05	8,05	9,95
<i>r₁</i>	≈	10,7	12,6	16	19,2	24,1	29,3	33,9
<i>r₂</i>	max.	0,5	0,5	0,5	0,5	1	1	1
<i>r₃</i> 6)	max.	0,75	0,9	1,2	1,5	1,8	2,4	3
<i>v</i> 5)	max.	5,48	6,48	8,58	10,58	12,7	16,7	20,84
	min.	4,52	5,52	7,42	9,42	11,3	15,3	19,16

1) *P* = thread pitch
2) For *l* ≤ 125 mm
3) For 125 < *l* ≤ 200 mm
4) For *l* > 200 mm

All measurements are in mm



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1) Shank length of DIN 603 mushroom head square neck carriage bolts

Nominal size	l		Shank lengths l_s and l_g													
	min.	max.	l_s min.	l_g max.	l_s min.	l_g max.	l_s min.	l_g max.	l_s min.	l_g max.	l_s min.	l_g max.	l_s min.	l_g max.	l_s min.	l_g max.
16	15,1	16,9	—	8	—	10	—	—	—	—	—	—	—	—	—	—
20	18,95	21,05	—	8	—	10	—	12	—	14	—	—	—	—	—	—
25	23,95	26,05	—	8	—	10	—	12	—	14	—	—	—	—	—	—
30	28,95	31,05	—	18	—	10	—	12	—	14	—	18	—	—	—	—
35	33,75	36,25	15	19	12	17	—	12	—	14	—	18	—	—	—	—
40	38,75	41,25	20	24	17	22	11,75	18	—	14	—	18	—	—	—	—
45	43,75	46,25	25	29	22	27	16,75	23	11,5	19	—	18	—	—	—	—
50	48,75	51,25	30	34	27	32	21,75	28	16,5	24	—	18	—	—	—	—
55	53,5	56,5	35	39	32	37	26,75	33	21,5	29	16,25	25	—	23	—	—
60	58,5	61,5	40	44	37	42	31,75	38	26,5	34	21,25	30	—	23	—	—
65	63,5	66,5	45	49	42	47	36,75	43	31,5	39	26,75	35	17	27	—	—
70	68,5	71,5	50	54	47	52	41,75	48	36,5	44	31,25	40	22	32	—	28,5
80	78,5	81,5	60	64	57	62	51,75	58	46,5	54	41,25	50	32	42	21,5	34
90	88,25	91,75			67	72	61,75	68	56,5	64	51,25	60	42	52	31,5	44
100	98,25	101,75			77	82	71,75	78	66,5	74	61,25	70	52	62	41,5	54
110	108,25	111,75			87	92	81,75	88	76,5	84	71,25	80	62	72	51,5	64
120	118,25	121,75			97	102	91,75	98	86,5	94	81,25	90	72	82	61,5	74
130	128	132			101	106	95,75	102	90,5	98	85,25	94	76	86	65,5	78
140	138	142			111	116	105,75	112	108,5	108	95,25	104	86	96	75,5	88
150	148	152			121	126	115,75	122	110,5	118	105,25	114	96	106	85,5	98
160	156	164							120,5	128	115,25	124	106	116	95,5	108
180	176	184							140,5	148	135,25	144	126	136	115,5	128
200	195,4	204,6							160,5	168	155,25	164	146	156	135,5	148



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2) Weights of metric DIN 603 mushroom head square neck carriage bolts

The weights listed are reference values.

Screw thread <i>d</i>	M 5	M 6	M 8	M 10	M 12	M 16	M 20
Length <i>l</i>	Weight (7,85 kg/dm ³) kg/1000 pieces ≈						
16	4,00	6,90					
20	4,50	7,60	13,8	22,7			
25	5,10	8,50	15,4	25,2			
30	5,90	9,60	17,0	27,7	45,7		
35	6,70	10,7	19,0	30,2	49,4		
40	7,50	11,8	21,0	32,7	53,1		
45	8,30	12,9	23,0	35,8	56,8		
50	9,10	14,0	25,0	38,9	61,2	119	
55	9,90	15,1	26,9	42,0	65,6	126	
60	10,7	16,2	28,9	45,1	70,0	133	
65	11,5	17,3	30,9	48,2	74,4	141	
70	12,3	18,4	32,9	51,3	78,8	149	247
80	13,9	20,6	36,8	57,5	87,0	165	272
90		22,8	40,8	63,7	96,0	181	297
100		25,0	44,8	69,9	105	197	322
110		27,2	48,8	76,1	114	213	347
120		29,4	52,8	82,3	123	229	372
130		31,6	56,8	88,5	132	245	397
140		32,8	60,8	95,0	141	261	422
150		35,0	64,8	101	150	277	447
160				107	159	293	497
180				119	177	325	547
200				131	195	357	597

Metric DIN 603 mushroom head square neck carriage bolts have a smooth domed head that prevents them from being tightened or loosened from above. The square shoulder below the head is designed to self-anchor into wood and resists turning when the nut is tightened on the treaded shaft. Unique Fasteners offers the following sizes for immediate delivery from stock: Diameters ranging from M5 to M20 and lengths up to 80mm.

DIN (Deutsches Institut für Normung - German Institute for Standardization) standards are issued for a variety of components including industrial fasteners as Metric DIN 603 mushroom head square neck carriage bolts. The DIN standards remain common in Germany, Europe and globally even though the transition to ISO standards is taking place. DIN standards continue to be used for parts which do not have ISO equivalents or for which there is no need for standardization. The ISO equivalent for DIN 603 mushroom head square neck carriage bolts is ISO 8678.



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