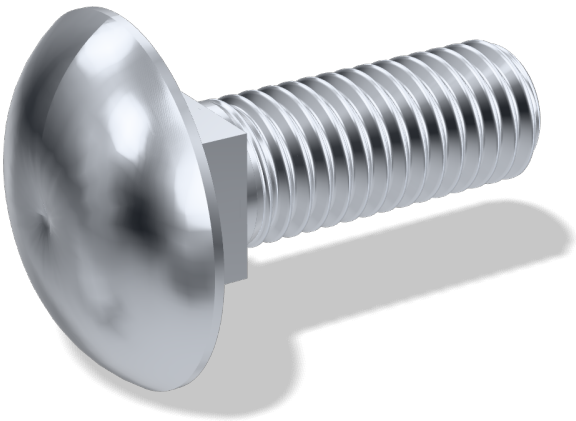


Mushroom Head Square Neck Bolt (Carriage Bolt) DIN 603 - Steel 4.6, Zinc plated

Mushroom Head Square Neck Bolt (Carriage Bolt) to DIN 603, in the sizes, grades and finishes listed.



TECHNICAL DATA

General

Standard	DIN 603
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Dimensions

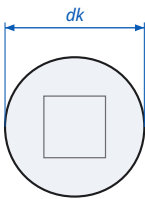
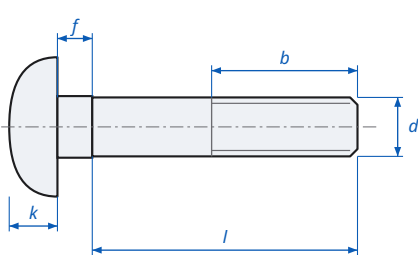
Thread form	Metric ISO thread
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Materials & Finish

Head type	Round (mushroom)
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Drive type	No drive
Property class / grade	4.6
Material	Steel
Surface finish	Zinc plated

DIMENSIONS



d	Thread diameter
l	Length
b	Thread length
k	Head height
dk	Head diameter
f	Square neck length

Mushroom Head Square Neck Bolt (Carriage Bolt) DIN 603 - dimensions

AVAILABLE PART NUMBERS

Part number	Size (d)	Length (l)	Thread pitch	Head height (k)	Head diameter (dk)	Thread length (b)	Weight
FBM01G4Z05016	M5	16 mm	0.8 mm	3.3 mm	13.55 mm	16 mm	5.026 g
FBM01G4Z05020	M5	20 mm	0.8 mm	3.3 mm	13.55 mm	16 mm	5.521 g
FBM01G4Z05025	M5	25 mm	0.8 mm	3.3 mm	13.55 mm	16 mm	6.139 g



Part number	Size (d)	Length (l)	Thread pitch	Head height (k)	Head diameter (dk)	Thread length (b)	Weight
FBM01G4Z05030	M5	30 mm	0.8 mm	3.3 mm	13.55 mm	16 mm	6.758 g
FBM01G4Z05035	M5	35 mm	0.8 mm	3.3 mm	13.55 mm	16 mm	7.377 g
FBM01G4Z05040	M5	40 mm	0.8 mm	3.3 mm	13.55 mm	16 mm	7.996 g
FBM01G4Z05045	M5	45 mm	0.8 mm	3.3 mm	13.55 mm	16 mm	8.614 g
FBM01G4Z05050	M5	50 mm	0.8 mm	3.3 mm	13.55 mm	16 mm	9.233 g
FBM01G4Z05055	M5	55 mm	0.8 mm	3.3 mm	13.55 mm	16 mm	9.852 g
FBM01G4Z05060	M5	60 mm	0.8 mm	3.3 mm	13.55 mm	16 mm	10.47 g
FBM01G4Z05065	M5	65 mm	0.8 mm	3.3 mm	13.55 mm	16 mm	11.09 g
FBM01G4Z05070	M5	70 mm	0.8 mm	3.3 mm	13.55 mm	16 mm	11.71 g
FBM01G4Z05080	M5	80 mm	0.8 mm	3.3 mm	13.55 mm	16 mm	12.95 g
FBM01G4Z05090	M5	90 mm	0.8 mm	3.3 mm	13.55 mm	16 mm	14.18 g
FBM01G4Z06016	M6	16 mm	1 mm	3.88 mm	16.55 mm	18 mm	8.055 g
FBM01G4Z06020	M6	20 mm	1 mm	3.88 mm	16.55 mm	18 mm	8.761 g
FBM01G4Z06025	M6	25 mm	1 mm	3.88 mm	16.55 mm	18 mm	9.643 g
FBM01G4Z06030	M6	30 mm	1 mm	3.88 mm	16.55 mm	18 mm	10.53 g
FBM01G4Z06035	M6	35 mm	1 mm	3.88 mm	16.55 mm	18 mm	11.41 g
FBM01G4Z06040	M6	40 mm	1 mm	3.88 mm	16.55 mm	18 mm	12.29 g
FBM01G4Z06045	M6	45 mm	1 mm	3.88 mm	16.55 mm	18 mm	13.17 g
FBM01G4Z06050	M6	50 mm	1 mm	3.88 mm	16.55 mm	18 mm	14.05 g
FBM01G4Z06055	M6	55 mm	1 mm	3.88 mm	16.55 mm	18 mm	14.94 g
FBM01G4Z06060	M6	60 mm	1 mm	3.88 mm	16.55 mm	18 mm	15.82 g
FBM01G4Z06065	M6	65 mm	1 mm	3.88 mm	16.55 mm	18 mm	16.7 g
FBM01G4Z06070	M6	70 mm	1 mm	3.88 mm	16.55 mm	18 mm	17.58 g
FBM01G4Z06075	M6	75 mm	1 mm	3.88 mm	16.55 mm	18 mm	18.47 g
FBM01G4Z06080	M6	80 mm	1 mm	3.88 mm	16.55 mm	18 mm	19.35 g
FBM01G4Z06090	M6	90 mm	1 mm	3.88 mm	16.55 mm	18 mm	21.11 g
FBM01G4Z06100	M6	100 mm	1 mm	3.88 mm	16.55 mm	18 mm	22.88 g
FBM01G4Z06110	M6	110 mm	1 mm	3.88 mm	16.55 mm	18 mm	24.64 g
FBM01G4Z06120	M6	120 mm	1 mm	3.88 mm	16.55 mm	18 mm	26.41 g
FBM01G4Z06130	M6	130 mm	1 mm	3.88 mm	16.55 mm	24 mm	28.17 g
FBM01G4Z06140	M6	140 mm	1 mm	3.88 mm	16.55 mm	24 mm	29.94 g
FBM01G4Z06150	M6	150 mm	1 mm	3.88 mm	16.55 mm	24 mm	31.7 g
FBM01G4Z08016	M8	16 mm	1.25 mm	4.88 mm	20.65 mm	22 mm	15.61 g
FBM01G4Z08020	M8	20 mm	1.25 mm	4.88 mm	20.65 mm	22 mm	16.88 g
FBM01G4Z08025	M8	25 mm	1.25 mm	4.88 mm	20.65 mm	22 mm	18.47 g
FBM01G4Z08030	M8	30 mm	1.25 mm	4.88 mm	20.65 mm	22 mm	20.07 g
FBM01G4Z08035	M8	35 mm	1.25 mm	4.88 mm	20.65 mm	22 mm	21.66 g



Part number	Size (d)	Length (l)	Thread pitch	Head height (k)	Head diameter (dk)	Thread length (b)	Weight
FBM01G4Z08040	M8	40 mm	1.25 mm	4.88 mm	20.65 mm	22 mm	23.25 g
FBM01G4Z08045	M8	45 mm	1.25 mm	4.88 mm	20.65 mm	22 mm	24.84 g
FBM01G4Z08050	M8	50 mm	1.25 mm	4.88 mm	20.65 mm	22 mm	26.44 g
FBM01G4Z08055	M8	55 mm	1.25 mm	4.88 mm	20.65 mm	22 mm	28.03 g
FBM01G4Z08060	M8	60 mm	1.25 mm	4.88 mm	20.65 mm	22 mm	29.62 g
FBM01G4Z08065	M8	65 mm	1.25 mm	4.88 mm	20.65 mm	22 mm	31.21 g
FBM01G4Z08070	M8	70 mm	1.25 mm	4.88 mm	20.65 mm	22 mm	32.81 g
FBM01G4Z08075	M8	75 mm	1.25 mm	4.88 mm	20.65 mm	22 mm	34.4 g
FBM01G4Z08080	M8	80 mm	1.25 mm	4.88 mm	20.65 mm	22 mm	35.99 g
FBM01G4Z08090	M8	90 mm	1.25 mm	4.88 mm	20.65 mm	22 mm	39.18 g
FBM01G4Z08100	M8	100 mm	1.25 mm	4.88 mm	20.65 mm	22 mm	42.36 g
FBM01G4Z08110	M8	110 mm	1.25 mm	4.88 mm	20.65 mm	22 mm	45.55 g
FBM01G4Z08120	M8	120 mm	1.25 mm	4.88 mm	20.65 mm	22 mm	48.73 g
FBM01G4Z08130	M8	130 mm	1.25 mm	4.88 mm	20.65 mm	28 mm	51.92 g
FBM01G4Z08140	M8	140 mm	1.25 mm	4.88 mm	20.65 mm	28 mm	55.1 g
FBM01G4Z08150	M8	150 mm	1.25 mm	4.88 mm	20.65 mm	28 mm	58.29 g
FBM01G4Z08160	M8	160 mm	1.25 mm	4.88 mm	20.65 mm	28 mm	61.47 g
FBM01G4Z08170	M8	170 mm	1.25 mm	4.88 mm	20.65 mm	28 mm	64.66 g
FBM01G4Z08180	M8	180 mm	1.25 mm	4.88 mm	20.65 mm	28 mm	67.84 g
FBM01G4Z08190	M8	190 mm	1.25 mm	4.88 mm	20.65 mm	28 mm	71.03 g
FBM01G4Z08200	M8	200 mm	1.25 mm	4.88 mm	20.65 mm	28 mm	74.21 g
FBM01G4Z10020	M10	20 mm	1.5 mm	5.38 mm	24.65 mm	26 mm	27.32 g
FBM01G4Z10025	M10	25 mm	1.5 mm	5.38 mm	24.65 mm	26 mm	29.83 g
FBM01G4Z10030	M10	30 mm	1.5 mm	5.38 mm	24.65 mm	26 mm	32.34 g
FBM01G4Z10035	M10	35 mm	1.5 mm	5.38 mm	24.65 mm	26 mm	34.85 g
FBM01G4Z10040	M10	40 mm	1.5 mm	5.38 mm	24.65 mm	26 mm	37.36 g
FBM01G4Z10045	M10	45 mm	1.5 mm	5.38 mm	24.65 mm	26 mm	39.87 g
FBM01G4Z10050	M10	50 mm	1.5 mm	5.38 mm	24.65 mm	26 mm	42.38 g
FBM01G4Z10055	M10	55 mm	1.5 mm	5.38 mm	24.65 mm	26 mm	44.89 g
FBM01G4Z10060	M10	60 mm	1.5 mm	5.38 mm	24.65 mm	26 mm	47.4 g
FBM01G4Z10065	M10	65 mm	1.5 mm	5.38 mm	24.65 mm	26 mm	49.92 g
FBM01G4Z10070	M10	70 mm	1.5 mm	5.38 mm	24.65 mm	26 mm	52.43 g
FBM01G4Z10075	M10	75 mm	1.5 mm	5.38 mm	24.65 mm	26 mm	54.94 g
FBM01G4Z10080	M10	80 mm	1.5 mm	5.38 mm	24.65 mm	26 mm	57.45 g
FBM01G4Z10090	M10	90 mm	1.5 mm	5.38 mm	24.65 mm	26 mm	62.47 g
FBM01G4Z10100	M10	100 mm	1.5 mm	5.38 mm	24.65 mm	26 mm	67.49 g
FBM01G4Z10110	M10	110 mm	1.5 mm	5.38 mm	24.65 mm	26 mm	72.51 g



Part number	Size (d)	Length (l)	Thread pitch	Head height (k)	Head diameter (dk)	Thread length (b)	Weight
FBM01G4Z10120	M10	120 mm	1.5 mm	5.38 mm	24.65 mm	26 mm	77.53 g
FBM01G4Z10130	M10	130 mm	1.5 mm	5.38 mm	24.65 mm	32 mm	82.56 g
FBM01G4Z10140	M10	140 mm	1.5 mm	5.38 mm	24.65 mm	32 mm	87.58 g
FBM01G4Z10150	M10	150 mm	1.5 mm	5.38 mm	24.65 mm	32 mm	92.6 g
FBM01G4Z10160	M10	160 mm	1.5 mm	5.38 mm	24.65 mm	32 mm	97.62 g
FBM01G4Z10170	M10	170 mm	1.5 mm	5.38 mm	24.65 mm	32 mm	102.64 g
FBM01G4Z10180	M10	180 mm	1.5 mm	5.38 mm	24.65 mm	32 mm	107.67 g
FBM01G4Z10190	M10	190 mm	1.5 mm	5.38 mm	24.65 mm	32 mm	112.69 g
FBM01G4Z10200	M10	200 mm	1.5 mm	5.38 mm	24.65 mm	32 mm	117.71 g
FBM01G4Z10220	M10	220 mm	1.5 mm	5.38 mm	24.65 mm	45 mm	127.75 g
FBM01G4Z10240	M10	240 mm	1.5 mm	5.38 mm	24.65 mm	45 mm	137.8 g
FBM01G4Z10260	M10	260 mm	1.5 mm	5.38 mm	24.65 mm	45 mm	147.84 g
FBM01G4Z10280	M10	280 mm	1.5 mm	5.38 mm	24.65 mm	45 mm	157.88 g
FBM01G4Z10300	M10	300 mm	1.5 mm	5.38 mm	24.65 mm	45 mm	167.93 g
FBM01G4Z12030	M12	30 mm	1.75 mm	6.95 mm	30.65 mm	30 mm	55.87 g
FBM01G4Z12035	M12	35 mm	1.75 mm	6.95 mm	30.65 mm	30 mm	59.5 g
FBM01G4Z12040	M12	40 mm	1.75 mm	6.95 mm	30.65 mm	30 mm	63.14 g
FBM01G4Z12045	M12	45 mm	1.75 mm	6.95 mm	30.65 mm	30 mm	66.78 g
FBM01G4Z12050	M12	50 mm	1.75 mm	6.95 mm	30.65 mm	30 mm	70.42 g
FBM01G4Z12055	M12	55 mm	1.75 mm	6.95 mm	30.65 mm	30 mm	74.05 g
FBM01G4Z12060	M12	60 mm	1.75 mm	6.95 mm	30.65 mm	30 mm	77.69 g
FBM01G4Z12065	M12	65 mm	1.75 mm	6.95 mm	30.65 mm	30 mm	81.33 g
FBM01G4Z12070	M12	70 mm	1.75 mm	6.95 mm	30.65 mm	30 mm	84.97 g
FBM01G4Z12075	M12	75 mm	1.75 mm	6.95 mm	30.65 mm	30 mm	88.6 g
FBM01G4Z12080	M12	80 mm	1.75 mm	6.95 mm	30.65 mm	30 mm	92.24 g
FBM01G4Z12090	M12	90 mm	1.75 mm	6.95 mm	30.65 mm	30 mm	99.52 g
FBM01G4Z12100	M12	100 mm	1.75 mm	6.95 mm	30.65 mm	30 mm	106.79 g
FBM01G4Z12110	M12	110 mm	1.75 mm	6.95 mm	30.65 mm	30 mm	114.07 g
FBM01G4Z12120	M12	120 mm	1.75 mm	6.95 mm	30.65 mm	30 mm	121.34 g
FBM01G4Z12130	M12	130 mm	1.75 mm	6.95 mm	30.65 mm	36 mm	128.62 g
FBM01G4Z12140	M12	140 mm	1.75 mm	6.95 mm	30.65 mm	36 mm	135.89 g
FBM01G4Z12150	M12	150 mm	1.75 mm	6.95 mm	30.65 mm	36 mm	143.16 g
FBM01G4Z12160	M12	160 mm	1.75 mm	6.95 mm	30.65 mm	36 mm	150.44 g
FBM01G4Z12170	M12	170 mm	1.75 mm	6.95 mm	30.65 mm	36 mm	157.71 g
FBM01G4Z12180	M12	180 mm	1.75 mm	6.95 mm	30.65 mm	36 mm	164.99 g
FBM01G4Z12190	M12	190 mm	1.75 mm	6.95 mm	30.65 mm	36 mm	172.26 g
FBM01G4Z12200	M12	200 mm	1.75 mm	6.95 mm	30.65 mm	36 mm	179.54 g



Part number	Size (d)	Length (l)	Thread pitch	Head height (k)	Head diameter (dk)	Thread length (b)	Weight
FBM01G4Z12220	M12	220 mm	1.75 mm	6.95 mm	30.65 mm	49 mm	194.09 g
FBM01G4Z12240	M12	240 mm	1.75 mm	6.95 mm	30.65 mm	49 mm	208.64 g
FBM01G4Z12250	M12	250 mm	1.75 mm	6.95 mm	30.65 mm	49 mm	215.91 g
FBM01G4Z12260	M12	260 mm	1.75 mm	6.95 mm	30.65 mm	49 mm	223.19 g
FBM01G4Z12280	M12	280 mm	1.75 mm	6.95 mm	30.65 mm	49 mm	237.74 g
FBM01G4Z12300	M12	300 mm	1.75 mm	6.95 mm	30.65 mm	49 mm	252.29 g
FBM01G4Z12320	M12	320 mm	1.75 mm	6.95 mm	30.65 mm	49 mm	266.84 g
FBM01G4Z12340	M12	340 mm	1.75 mm	6.95 mm	30.65 mm	49 mm	281.39 g
FBM01G4Z12360	M12	360 mm	1.75 mm	6.95 mm	30.65 mm	49 mm	295.93 g
FBM01G4Z12380	M12	380 mm	1.75 mm	6.95 mm	30.65 mm	49 mm	310.48 g
FBM01G4Z12400	M12	400 mm	1.75 mm	6.95 mm	30.65 mm	49 mm	325.03 g
FBM01G4Z16035	M16	35 mm	2 mm	8.95 mm	38.8 mm	38 mm	122.4 g
FBM01G4Z16040	M16	40 mm	2 mm	8.95 mm	38.8 mm	38 mm	129.06 g
FBM01G4Z16045	M16	45 mm	2 mm	8.95 mm	38.8 mm	38 mm	135.72 g
FBM01G4Z16050	M16	50 mm	2 mm	8.95 mm	38.8 mm	38 mm	142.38 g
FBM01G4Z16055	M16	55 mm	2 mm	8.95 mm	38.8 mm	38 mm	149.04 g
FBM01G4Z16060	M16	60 mm	2 mm	8.95 mm	38.8 mm	38 mm	155.7 g
FBM01G4Z16065	M16	65 mm	2 mm	8.95 mm	38.8 mm	38 mm	162.36 g
FBM01G4Z16070	M16	70 mm	2 mm	8.95 mm	38.8 mm	38 mm	169.03 g
FBM01G4Z16075	M16	75 mm	2 mm	8.95 mm	38.8 mm	38 mm	175.69 g
FBM01G4Z16080	M16	80 mm	2 mm	8.95 mm	38.8 mm	38 mm	182.35 g
FBM01G4Z16090	M16	90 mm	2 mm	8.95 mm	38.8 mm	38 mm	195.67 g
FBM01G4Z16100	M16	100 mm	2 mm	8.95 mm	38.8 mm	38 mm	208.99 g
FBM01G4Z16110	M16	110 mm	2 mm	8.95 mm	38.8 mm	38 mm	222.32 g
FBM01G4Z16120	M16	120 mm	2 mm	8.95 mm	38.8 mm	38 mm	235.64 g
FBM01G4Z16130	M16	130 mm	2 mm	8.95 mm	38.8 mm	44 mm	248.96 g
FBM01G4Z16140	M16	140 mm	2 mm	8.95 mm	38.8 mm	44 mm	262.28 g
FBM01G4Z16150	M16	150 mm	2 mm	8.95 mm	38.8 mm	44 mm	275.61 g
FBM01G4Z16160	M16	160 mm	2 mm	8.95 mm	38.8 mm	44 mm	288.93 g
FBM01G4Z16170	M16	170 mm	2 mm	8.95 mm	38.8 mm	44 mm	302.25 g
FBM01G4Z16180	M16	180 mm	2 mm	8.95 mm	38.8 mm	44 mm	315.58 g
FBM01G4Z16190	M16	190 mm	2 mm	8.95 mm	38.8 mm	44 mm	328.9 g
FBM01G4Z16200	M16	200 mm	2 mm	8.95 mm	38.8 mm	44 mm	342.22 g
FBM01G4Z16220	M16	220 mm	2 mm	8.95 mm	38.8 mm	57 mm	368.87 g
FBM01G4Z16240	M16	240 mm	2 mm	8.95 mm	38.8 mm	57 mm	395.51 g
FBM01G4Z16260	M16	260 mm	2 mm	8.95 mm	38.8 mm	57 mm	422.16 g
FBM01G4Z16280	M16	280 mm	2 mm	8.95 mm	38.8 mm	57 mm	448.8 g



Part number	Size (d)	Length (l)	Thread pitch	Head height (k)	Head diameter (dk)	Thread length (b)	Weight
FBM01G4Z16300	M16	300 mm	2 mm	8.95 mm	38.8 mm	57 mm	475.45 g
FBM01G4Z16320	M16	320 mm	2 mm	8.95 mm	38.8 mm	57 mm	502.09 g
FBM01G4Z16340	M16	340 mm	2 mm	8.95 mm	38.8 mm	57 mm	528.74 g
FBM01G4Z16360	M16	360 mm	2 mm	8.95 mm	38.8 mm	57 mm	555.39 g
FBM01G4Z16380	M16	380 mm	2 mm	8.95 mm	38.8 mm	57 mm	582.03 g
FBM01G4Z16400	M16	400 mm	2 mm	8.95 mm	38.8 mm	57 mm	608.68 g
FBM01G4Z20080	M20	80 mm	2.5 mm	11.05 mm	46.8 mm	46 mm	305.99 g
FBM01G4Z20100	M20	100 mm	2.5 mm	11.05 mm	46.8 mm	46 mm	347.62 g
FBM01G4Z20120	M20	120 mm	2.5 mm	11.05 mm	46.8 mm	46 mm	389.26 g
FBM01G4Z20140	M20	140 mm	2.5 mm	11.05 mm	46.8 mm	52 mm	430.89 g
FBM01G4Z20180	M20	180 mm	2.5 mm	11.05 mm	46.8 mm	52 mm	514.16 g
FBM01G4Z20200	M20	200 mm	2.5 mm	11.05 mm	46.8 mm	52 mm	555.79 g
FBM01G4Z20240	M20	240 mm	2.5 mm	11.05 mm	46.8 mm	65 mm	639.06 g
FBM01G4Z20280	M20	280 mm	2.5 mm	11.05 mm	46.8 mm	65 mm	722.33 g
FBM01G4Z20300	M20	300 mm	2.5 mm	11.05 mm	46.8 mm	65 mm	763.96 g

Part numbers: 166

STANDARDS & CERTIFICATES

Standards

DIN 603 – Mushroom Head Square Neck Bolt (Carriage Bolt)

