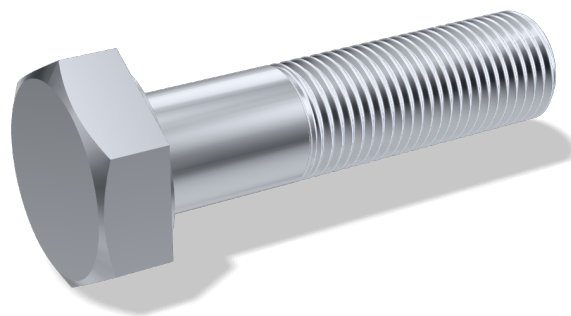


Hex Head Bolt Fine Thread DIN 960 / ISO 8765 - Steel 8.8, Zinc plated

Hex Head Bolt Fine Thread to DIN 960 / ISO 8765, in the sizes, grades and finishes listed.



TECHNICAL DATA

Dimensions

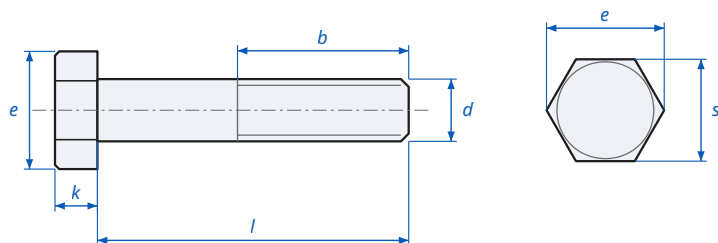
Thread form	Metric fine thread
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Materials & Finish

Head type	Hexagon
Drive type	External hexagon

Property class / grade	8.8
Material	Steel
Surface finish	Zinc plated

DIMENSIONS



d	Thread diameter
l	Length
b	Thread length
k	Head height
s	Width across flats (WAF)
e	Width across corners

Hex Head Bolt Fine Thread DIN 960 / ISO 8765 - dimensions

AVAILABLE PART NUMBERS

Part number	Size (d)	Length (l)	Thread pitch	Width across flats (s)	Width across corners (e)	Head height (k)	Thread length (b)	Weight
FBH07G8ZL0035	M8x1	35 mm	1 mm	13 mm	14.38 mm	5.3 mm	22 mm	18.2 g
FBH07G8ZL0040	M8x1	40 mm	1 mm	13 mm	14.38 mm	5.3 mm	22 mm	20.3 g
FBH07G8ZL0045	M8x1	45 mm	1 mm	13 mm	14.38 mm	5.3 mm	22 mm	22.2 g
FBH07G8ZL0050	M8x1	50 mm	1 mm	13 mm	14.38 mm	5.3 mm	22 mm	24.2 g
FBH07G8ZL0055	M8x1	55 mm	1 mm	13 mm	14.38 mm	5.3 mm	22 mm	25.8 g
FBH07G8ZL0060	M8x1	60 mm	1 mm	13 mm	14.38 mm	5.3 mm	22 mm	27.8 g
FBH07G8ZL0070	M8x1	70 mm	1 mm	13 mm	14.38 mm	5.3 mm	22 mm	31.8 g
FBH07G8ZL0080	M8x1	80 mm	1 mm	13 mm	14.38 mm	5.3 mm	22 mm	35.7 g



Part number	Size (d)	Length (l)	Thread pitch	Width across flats (s)	Width across corners (e)	Head height (k)	Thread length (b)	Weight
FBH07G8ZL0090	M8x1	90 mm	1 mm	13 mm	14.38 mm	5.3 mm	22 mm	39.7 g
FBH10G8ZL1035	M10x1	35 mm	1 mm	17 mm	18.9 mm	6.4 mm	26 mm	32 g
FBH10G8ZL1040	M10x1	40 mm	1 mm	17 mm	18.9 mm	6.4 mm	26 mm	35 g
FBH10G8ZL1050	M10x1	50 mm	1 mm	17 mm	18.9 mm	6.4 mm	26 mm	41.1 g
FBH10G8ZL1060	M10x1	60 mm	1 mm	17 mm	18.9 mm	6.4 mm	26 mm	46.9 g
FBH10G8ZL2035	M10x1.25	35 mm	1.25 mm	17 mm	18.9 mm	6.4 mm	26 mm	32 g
FBH10G8ZL2040	M10x1.25	40 mm	1.25 mm	17 mm	18.9 mm	6.4 mm	26 mm	35 g
FBH10G8ZL2045	M10x1.25	45 mm	1.25 mm	17 mm	18.9 mm	6.4 mm	26 mm	38 g
FBH10G8ZL2050	M10x1.25	50 mm	1.25 mm	17 mm	18.9 mm	6.4 mm	26 mm	41.1 g
FBH10G8ZL2055	M10x1.25	55 mm	1.25 mm	17 mm	18.9 mm	6.4 mm	26 mm	43.8 g
FBH10G8ZL2060	M10x1.25	60 mm	1.25 mm	17 mm	18.9 mm	6.4 mm	26 mm	46.9 g
FBH10G8ZL2065	M10x1.25	65 mm	1.25 mm	17 mm	18.9 mm	6.4 mm	26 mm	50 g
FBH10G8ZL2070	M10x1.25	70 mm	1.25 mm	17 mm	18.9 mm	6.4 mm	26 mm	53.1 g
FBH10G8ZL2080	M10x1.25	80 mm	1.25 mm	17 mm	18.9 mm	6.4 mm	26 mm	59.3 g
FBH10G8ZL2090	M10x1.25	90 mm	1.25 mm	17 mm	18.9 mm	6.4 mm	26 mm	65.5 g
FBH10G8ZL2100	M10x1.25	100 mm	1.25 mm	17 mm	18.9 mm	6.4 mm	26 mm	71.7 g
FBH10G8ZL2110	M10x1.25	110 mm	1.25 mm	17 mm	18.9 mm	6.4 mm	26 mm	77.9 g
FBH10G8ZL2120	M10x1.25	120 mm	1.25 mm	17 mm	18.9 mm	6.4 mm	26 mm	84.1 g
FBH10G8ZL2220	M10x1.25	220 mm	1.25 mm	17 mm	18.9 mm	6.4 mm	45 mm	146.1 g
FBH10G8ZL3045	M12x1.25	45 mm	1.25 mm	19 mm	21.1 mm	7.5 mm	30 mm	53.6 g
FBH10G8ZL3050	M12x1.25	50 mm	1.25 mm	19 mm	21.1 mm	7.5 mm	30 mm	58.1 g
FBH12G8ZL3050	M12x1.25	50 mm	1.25 mm	18 mm	20.03 mm	7.5 mm	30 mm	58.1 g
FBH10G8ZL3055	M12x1.25	55 mm	1.25 mm	19 mm	21.1 mm	7.5 mm	30 mm	62.6 g
FBH10G8ZL3060	M12x1.25	60 mm	1.25 mm	19 mm	21.1 mm	7.5 mm	30 mm	67 g
FBH12G8ZL3060	M12x1.25	60 mm	1.25 mm	18 mm	20.03 mm	7.5 mm	30 mm	67 g
FBH10G8ZL3065	M12x1.25	65 mm	1.25 mm	19 mm	21.1 mm	7.5 mm	30 mm	70.3 g
FBH10G8ZL3070	M12x1.25	70 mm	1.25 mm	19 mm	21.1 mm	7.5 mm	30 mm	74.7 g
FBH12G8ZL3070	M12x1.25	70 mm	1.25 mm	18 mm	20.03 mm	7.5 mm	30 mm	74.7 g
FBH10G8ZL3075	M12x1.25	75 mm	1.25 mm	19 mm	21.1 mm	7.5 mm	30 mm	79.1 g
FBH10G8ZL3080	M12x1.25	80 mm	1.25 mm	19 mm	21.1 mm	7.5 mm	30 mm	83.6 g
FBH12G8ZL3080	M12x1.25	80 mm	1.25 mm	18 mm	20.03 mm	7.5 mm	30 mm	83.6 g
FBH10G8ZL3090	M12x1.25	90 mm	1.25 mm	19 mm	21.1 mm	7.5 mm	30 mm	92.4 g
FBH12G8ZL3090	M12x1.25	90 mm	1.25 mm	18 mm	20.03 mm	7.5 mm	30 mm	92.4 g
FBH10G8ZL3100	M12x1.25	100 mm	1.25 mm	19 mm	21.1 mm	7.5 mm	30 mm	101 g
FBH12G8ZL3100	M12x1.25	100 mm	1.25 mm	18 mm	20.03 mm	7.5 mm	30 mm	101 g
FBH10G8ZL3110	M12x1.25	110 mm	1.25 mm	19 mm	21.1 mm	7.5 mm	30 mm	109 g
FBH12G8ZL3110	M12x1.25	110 mm	1.25 mm	18 mm	20.03 mm	7.5 mm	30 mm	109 g



Part number	Size (d)	Length (l)	Thread pitch	Width across flats (s)	Width across corners (e)	Head height (k)	Thread length (b)	Weight
FBH10G8ZL3120	M12x1.25	120 mm	1.25 mm	19 mm	21.1 mm	7.5 mm	30 mm	118 g
FBH12G8ZL3120	M12x1.25	120 mm	1.25 mm	18 mm	20.03 mm	7.5 mm	30 mm	118 g
FBH10G8ZL3130	M12x1.25	130 mm	1.25 mm	19 mm	21.1 mm	7.5 mm	36 mm	127 g
FBH12G8ZL3130	M12x1.25	130 mm	1.25 mm	18 mm	20.03 mm	7.5 mm	36 mm	127 g
FBH10G8ZL3160	M12x1.25	160 mm	1.25 mm	19 mm	21.1 mm	7.5 mm	36 mm	154 g
FBH10G8ZL4045	M12x1.5	45 mm	1.5 mm	19 mm	21.1 mm	7.5 mm	30 mm	53.6 g
FBH12G8ZL4045	M12x1.5	45 mm	1.5 mm	18 mm	20.03 mm	7.5 mm	30 mm	53.6 g
FBH10G8ZL4050	M12x1.5	50 mm	1.5 mm	19 mm	21.1 mm	7.5 mm	30 mm	58.1 g
FBH12G8ZL4050	M12x1.5	50 mm	1.5 mm	18 mm	20.03 mm	7.5 mm	30 mm	58.1 g
FBH10G8ZL4055	M12x1.5	55 mm	1.5 mm	19 mm	21.1 mm	7.5 mm	30 mm	62.6 g
FBH10G8ZL4060	M12x1.5	60 mm	1.5 mm	19 mm	21.1 mm	7.5 mm	30 mm	67 g
FBH12G8ZL4060	M12x1.5	60 mm	1.5 mm	18 mm	20.03 mm	7.5 mm	30 mm	67 g
FBH10G8ZL4065	M12x1.5	65 mm	1.5 mm	19 mm	21.1 mm	7.5 mm	30 mm	70.3 g
FBH12G8ZL4065	M12x1.5	65 mm	1.5 mm	18 mm	20.03 mm	7.5 mm	30 mm	70.3 g
FBH10G8ZL4070	M12x1.5	70 mm	1.5 mm	19 mm	21.1 mm	7.5 mm	30 mm	74.7 g
FBH12G8ZL4070	M12x1.5	70 mm	1.5 mm	18 mm	20.03 mm	7.5 mm	30 mm	74.7 g
FBH10G8ZL4080	M12x1.5	80 mm	1.5 mm	19 mm	21.1 mm	7.5 mm	30 mm	83.6 g
FBH12G8ZL4080	M12x1.5	80 mm	1.5 mm	18 mm	20.03 mm	7.5 mm	30 mm	83.6 g
FBH10G8ZL4090	M12x1.5	90 mm	1.5 mm	19 mm	21.1 mm	7.5 mm	30 mm	92.4 g
FBH12G8ZL4090	M12x1.5	90 mm	1.5 mm	18 mm	20.03 mm	7.5 mm	30 mm	92.4 g
FBH10G8ZL4100	M12x1.5	100 mm	1.5 mm	19 mm	21.1 mm	7.5 mm	30 mm	101 g
FBH12G8ZL4100	M12x1.5	100 mm	1.5 mm	18 mm	20.03 mm	7.5 mm	30 mm	101 g
FBH10G8ZL4110	M12x1.5	110 mm	1.5 mm	19 mm	21.1 mm	7.5 mm	30 mm	109 g
FBH12G8ZL4110	M12x1.5	110 mm	1.5 mm	18 mm	20.03 mm	7.5 mm	30 mm	109 g
FBH10G8ZL4120	M12x1.5	120 mm	1.5 mm	19 mm	21.1 mm	7.5 mm	30 mm	118 g
FBH12G8ZL4120	M12x1.5	120 mm	1.5 mm	18 mm	20.03 mm	7.5 mm	30 mm	118 g
FBH10G8ZL4130	M12x1.5	130 mm	1.5 mm	19 mm	21.1 mm	7.5 mm	36 mm	127 g
FBH12G8ZL4130	M12x1.5	130 mm	1.5 mm	18 mm	20.03 mm	7.5 mm	36 mm	127 g
FBH10G8ZL4140	M12x1.5	140 mm	1.5 mm	19 mm	21.1 mm	7.5 mm	36 mm	136 g
FBH12G8ZL4140	M12x1.5	140 mm	1.5 mm	18 mm	20.03 mm	7.5 mm	36 mm	136 g
FBH10G8ZL5050	M14x1.5	50 mm	1.5 mm	22 mm	24.49 mm	8.8 mm	34 mm	82 g
FBH12G8ZL5050	M14x1.5	50 mm	1.5 mm	21 mm	23.36 mm	8.8 mm	34 mm	82 g
FBH10G8ZL5060	M14x1.5	60 mm	1.5 mm	22 mm	24.49 mm	8.8 mm	34 mm	94.1 g
FBH12G8ZL5060	M14x1.5	60 mm	1.5 mm	21 mm	23.36 mm	8.8 mm	34 mm	94.1 g
FBH10G8ZL5065	M14x1.5	65 mm	1.5 mm	22 mm	24.49 mm	8.8 mm	34 mm	98.8 g
FBH12G8ZL5065	M14x1.5	65 mm	1.5 mm	21 mm	23.36 mm	8.8 mm	34 mm	98.8 g
FBH10G8ZL5070	M14x1.5	70 mm	1.5 mm	22 mm	24.49 mm	8.8 mm	34 mm	105 g



Part number	Size (d)	Length (l)	Thread pitch	Width across flats (s)	Width across corners (e)	Head height (k)	Thread length (b)	Weight
FBH12G8ZL5070	M14x1.5	70 mm	1.5 mm	21 mm	23.36 mm	8.8 mm	34 mm	105 g
FBH10G8ZL5075	M14x1.5	75 mm	1.5 mm	22 mm	24.49 mm	8.8 mm	34 mm	111 g
FBH12G8ZL5075	M14x1.5	75 mm	1.5 mm	21 mm	23.36 mm	8.8 mm	34 mm	111 g
FBH10G8ZL5080	M14x1.5	80 mm	1.5 mm	22 mm	24.49 mm	8.8 mm	34 mm	117 g
FBH12G8ZL5080	M14x1.5	80 mm	1.5 mm	21 mm	23.36 mm	8.8 mm	34 mm	117 g
FBH10G8ZL5090	M14x1.5	90 mm	1.5 mm	22 mm	24.49 mm	8.8 mm	34 mm	127 g
FBH12G8ZL5090	M14x1.5	90 mm	1.5 mm	21 mm	23.36 mm	8.8 mm	34 mm	127 g
FBH10G8ZL5100	M14x1.5	100 mm	1.5 mm	22 mm	24.49 mm	8.8 mm	34 mm	139 g
FBH12G8ZL5100	M14x1.5	100 mm	1.5 mm	21 mm	23.36 mm	8.8 mm	34 mm	139 g
FBH10G8ZL5110	M14x1.5	110 mm	1.5 mm	22 mm	24.49 mm	8.8 mm	34 mm	151 g
FBH10G8ZL5120	M14x1.5	120 mm	1.5 mm	22 mm	24.49 mm	8.8 mm	34 mm	164 g
FBH07G8ZL6055	M16x1.5	55 mm	1.5 mm	24 mm	26.75 mm	10 mm	38 mm	115 g
FBH07G8ZL6060	M16x1.5	60 mm	1.5 mm	24 mm	26.75 mm	10 mm	38 mm	123 g
FBH07G8ZL6065	M16x1.5	65 mm	1.5 mm	24 mm	26.75 mm	10 mm	38 mm	131 g
FBH07G8ZL6070	M16x1.5	70 mm	1.5 mm	24 mm	26.75 mm	10 mm	38 mm	139 g
FBH07G8ZL6075	M16x1.5	75 mm	1.5 mm	24 mm	26.75 mm	10 mm	38 mm	147 g
FBH07G8ZL6080	M16x1.5	80 mm	1.5 mm	24 mm	26.75 mm	10 mm	38 mm	155 g
FBH07G8ZL6085	M16x1.5	85 mm	1.5 mm	24 mm	26.75 mm	10 mm	38 mm	163 g
FBH07G8ZL6090	M16x1.5	90 mm	1.5 mm	24 mm	26.75 mm	10 mm	38 mm	171 g
FBH07G8ZL6100	M16x1.5	100 mm	1.5 mm	24 mm	26.75 mm	10 mm	38 mm	186 g
FBH07G8ZL6110	M16x1.5	110 mm	1.5 mm	24 mm	26.75 mm	10 mm	38 mm	202 g
FBH07G8ZL6120	M16x1.5	120 mm	1.5 mm	24 mm	26.75 mm	10 mm	38 mm	218 g
FBH07G8ZL6130	M16x1.5	130 mm	1.5 mm	24 mm	26.75 mm	10 mm	44 mm	230 g
FBH07G8ZL6140	M16x1.5	140 mm	1.5 mm	24 mm	26.75 mm	10 mm	44 mm	246 g
FBH07G8ZL6150	M16x1.5	150 mm	1.5 mm	24 mm	26.75 mm	10 mm	44 mm	262 g
FBH07G8ZL6160	M16x1.5	160 mm	1.5 mm	24 mm	26.75 mm	10 mm	44 mm	278 g
FBH07G8ZL6170	M16x1.5	170 mm	1.5 mm	24 mm	26.75 mm	10 mm	44 mm	294 g
FBH07G8ZL7060	M18x1.5	60 mm	1.5 mm	27 mm	30.14 mm	11.5 mm	42 mm	161 g
FBH07G8ZL7070	M18x1.5	70 mm	1.5 mm	27 mm	30.14 mm	11.5 mm	42 mm	181 g
FBH07G8ZL7080	M18x1.5	80 mm	1.5 mm	27 mm	30.14 mm	11.5 mm	42 mm	200 g
FBH07G8ZL7090	M18x1.5	90 mm	1.5 mm	27 mm	30.14 mm	11.5 mm	42 mm	220 g
FBH07G8ZL7110	M18x1.5	110 mm	1.5 mm	27 mm	30.14 mm	11.5 mm	42 mm	260 g
FBH07G8ZL7120	M18x1.5	120 mm	1.5 mm	27 mm	30.14 mm	11.5 mm	42 mm	280 g
FBH07G8ZL9065	M20x1.5	65 mm	1.5 mm	30 mm	33.53 mm	12.5 mm	46 mm	219 g
FBH07G8ZL9070	M20x1.5	70 mm	1.5 mm	30 mm	33.53 mm	12.5 mm	46 mm	231 g
FBH07G8ZL9075	M20x1.5	75 mm	1.5 mm	30 mm	33.53 mm	12.5 mm	46 mm	243 g
FBH07G8ZL9080	M20x1.5	80 mm	1.5 mm	30 mm	33.53 mm	12.5 mm	46 mm	255 g



Part number	Size (d)	Length (l)	Thread pitch	Width across flats (s)	Width across corners (e)	Head height (k)	Thread length (b)	Weight
FBH07G8ZL9090	M20x1.5	90 mm	1.5 mm	30 mm	33.53 mm	12.5 mm	46 mm	279 g
FBH07G8ZL9100	M20x1.5	100 mm	1.5 mm	30 mm	33.53 mm	12.5 mm	46 mm	303 g
FBH07G8ZL9110	M20x1.5	110 mm	1.5 mm	30 mm	33.53 mm	12.5 mm	46 mm	327 g
FBH07G8ZL9120	M20x1.5	120 mm	1.5 mm	30 mm	33.53 mm	12.5 mm	46 mm	351 g
FBH07G8ZL9140	M20x1.5	140 mm	1.5 mm	30 mm	33.53 mm	12.5 mm	52 mm	398 g
FBH07G8ZL9150	M20x1.5	150 mm	1.5 mm	30 mm	33.53 mm	12.5 mm	52 mm	422 g
FBH07G8ZL9160	M20x1.5	160 mm	1.5 mm	30 mm	33.53 mm	12.5 mm	52 mm	446 g
FBH07G8ZL9180	M20x1.5	180 mm	1.5 mm	30 mm	33.53 mm	12.5 mm	52 mm	494 g
FBH07G8ZL9200	M20x1.5	200 mm	1.5 mm	30 mm	33.53 mm	12.5 mm	52 mm	544 g
FBH07G8ZN0075	M20x2	75 mm	2 mm	30 mm	33.53 mm	12.5 mm	46 mm	243 g
FBH10G8ZN1100	M22x1.5	100 mm	1.5 mm	32 mm	35.72 mm	14 mm	50 mm	370 g
FBH10G8ZN2120	M22x2	120 mm	2 mm	32 mm	35.72 mm	14 mm	50 mm	430 g
FBH07G8ZN3090	M24x1.5	90 mm	1.5 mm	36 mm	39.98 mm	15 mm	54 mm	428 g
FBH07G8ZN4070	M24x2	70 mm	2 mm	36 mm	39.98 mm	15 mm	54 mm	356 g
FBH07G8ZN4080	M24x2	80 mm	2 mm	36 mm	39.98 mm	15 mm	54 mm	392 g
FBH07G8ZN4090	M24x2	90 mm	2 mm	36 mm	39.98 mm	15 mm	54 mm	428 g
FBH07G8ZN4100	M24x2	100 mm	2 mm	36 mm	39.98 mm	15 mm	54 mm	464 g
FBH07G8ZN4110	M24x2	110 mm	2 mm	36 mm	39.98 mm	15 mm	54 mm	500 g
FBH07G8ZN4120	M24x2	120 mm	2 mm	36 mm	39.98 mm	15 mm	54 mm	535 g
FBH07G8ZN4130	M24x2	130 mm	2 mm	36 mm	39.98 mm	15 mm	60 mm	560 g
FBH07G8ZN4140	M24x2	140 mm	2 mm	36 mm	39.98 mm	15 mm	60 mm	595 g
FBH07G8ZN4150	M24x2	150 mm	2 mm	36 mm	39.98 mm	15 mm	60 mm	630 g
FBH07G8ZN4160	M24x2	160 mm	2 mm	36 mm	39.98 mm	15 mm	60 mm	665 g
FBH07G8ZN4170	M24x2	170 mm	2 mm	36 mm	39.98 mm	15 mm	60 mm	700 g
FBH07G8ZP0100	M36x2	100 mm	2 mm	55 mm	60.79 mm	22.5 mm	78 mm	1160 g

Part numbers: 144

STANDARDS & CERTIFICATES

Standards

DIN 960 – Hex Head Bolt Fine Thread

ISO 8765 – Hex Head Bolt Fine Thread

