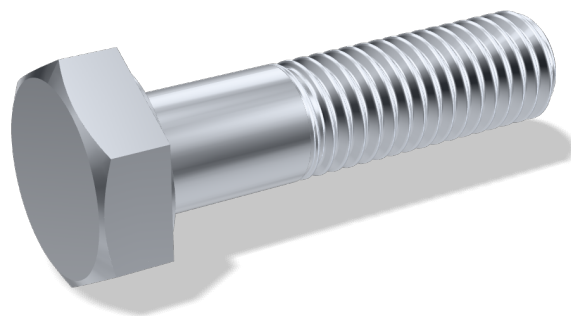


## Hex Head Bolt DIN 931 / ISO 4014 - Steel 25CrMo4, Zinc plated

Hex Head Bolt to DIN 931 / ISO 4014, in the sizes, grades and finishes listed.



### TECHNICAL DATA

#### Dimensions

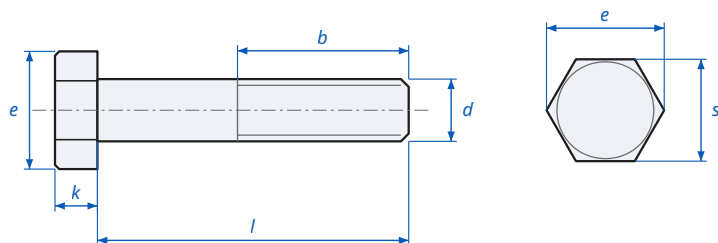
|             |                   |
|-------------|-------------------|
| Thread form | Metric ISO thread |
|-------------|-------------------|

#### Materials & Finish

|            |                  |
|------------|------------------|
| Head type  | Hexagon          |
| Drive type | External hexagon |

|                        |             |
|------------------------|-------------|
| Property class / grade | 25CrMo4     |
| 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 DIN 931 / ISO 4014 - 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 |
|---------------|----------|------------|--------------|------------------------|--------------------------|-----------------|-------------------|--------|
| FBH04CMZ12050 | M12      | 50 mm      | 1.75 mm      | 18 mm                  | 20.03 mm                 | 7.5 mm          | 30 mm             | 58.1 g |
| FBH04CMZ12055 | M12      | 55 mm      | 1.75 mm      | 18 mm                  | 20.03 mm                 | 7.5 mm          | 30 mm             | 62.6 g |
| FBH04CMZ12060 | M12      | 60 mm      | 1.75 mm      | 18 mm                  | 20.03 mm                 | 7.5 mm          | 30 mm             | 67 g   |
| FBH04CMZ12065 | M12      | 65 mm      | 1.75 mm      | 18 mm                  | 20.03 mm                 | 7.5 mm          | 30 mm             | 70.3 g |
| FBH04CMZ12070 | M12      | 70 mm      | 1.75 mm      | 18 mm                  | 20.03 mm                 | 7.5 mm          | 30 mm             | 74.7 g |
| FBH04CMZ12075 | M12      | 75 mm      | 1.75 mm      | 18 mm                  | 20.03 mm                 | 7.5 mm          | 30 mm             | 79.1 g |
| FBH04CMZ12080 | M12      | 80 mm      | 1.75 mm      | 18 mm                  | 20.03 mm                 | 7.5 mm          | 30 mm             | 83.6 g |
| FBH04CMZ12085 | M12      | 85 mm      | 1.75 mm      | 18 mm                  | 20.03 mm                 | 7.5 mm          | 30 mm             | 88.1 g |



| Part number   | Size (d) | Length (l) | Thread pitch | Width across flats (s) | Width across corners (e) | Head height (k) | Thread length (b) | Weight |
|---------------|----------|------------|--------------|------------------------|--------------------------|-----------------|-------------------|--------|
| FBH04CMZ12090 | M12      | 90 mm      | 1.75 mm      | 18 mm                  | 20.03 mm                 | 7.5 mm          | 30 mm             | 92.4 g |
| FBH04CMZ12100 | M12      | 100 mm     | 1.75 mm      | 18 mm                  | 20.03 mm                 | 7.5 mm          | 30 mm             | 101 g  |
| FBH04CMZ12110 | M12      | 110 mm     | 1.75 mm      | 18 mm                  | 20.03 mm                 | 7.5 mm          | 30 mm             | 109 g  |
| FBH04CMZ12120 | M12      | 120 mm     | 1.75 mm      | 18 mm                  | 20.03 mm                 | 7.5 mm          | 30 mm             | 118 g  |
| FBH04CMZ12130 | M12      | 130 mm     | 1.75 mm      | 18 mm                  | 20.03 mm                 | 7.5 mm          | 36 mm             | 127 g  |
| FBH04CMZ12140 | M12      | 140 mm     | 1.75 mm      | 18 mm                  | 20.03 mm                 | 7.5 mm          | 36 mm             | 136 g  |
| FBH04CMZ12150 | M12      | 150 mm     | 1.75 mm      | 18 mm                  | 20.03 mm                 | 7.5 mm          | 36 mm             | 145 g  |
| FBH04CMZ12160 | M12      | 160 mm     | 1.75 mm      | 18 mm                  | 20.03 mm                 | 7.5 mm          | 36 mm             | 154 g  |
| FBH02CMZ16065 | M16      | 65 mm      | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 38 mm             | 131 g  |
| FBH02CMZ16070 | M16      | 70 mm      | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 38 mm             | 139 g  |
| FBH02CMZ16075 | M16      | 75 mm      | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 38 mm             | 147 g  |
| FBH02CMZ16080 | M16      | 80 mm      | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 38 mm             | 155 g  |
| FBH02CMZ16085 | M16      | 85 mm      | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 38 mm             | 163 g  |
| FBH02CMZ16090 | M16      | 90 mm      | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 38 mm             | 171 g  |
| FBH02CMZ16095 | M16      | 95 mm      | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 38 mm             | 179 g  |
| FBH02CMZ16100 | M16      | 100 mm     | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 38 mm             | 186 g  |
| FBH02CMZ16110 | M16      | 110 mm     | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 38 mm             | 202 g  |
| FBH02CMZ16120 | M16      | 120 mm     | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 38 mm             | 218 g  |
| FBH02CMZ16130 | M16      | 130 mm     | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 44 mm             | 230 g  |
| FBH02CMZ16140 | M16      | 140 mm     | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 44 mm             | 246 g  |
| FBH02CMZ16150 | M16      | 150 mm     | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 44 mm             | 262 g  |
| FBH02CMZ16160 | M16      | 160 mm     | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 44 mm             | 278 g  |
| FBH02CMZ16180 | M16      | 180 mm     | 2 mm         | 24 mm                  | 26.75 mm                 | 10 mm           | 44 mm             | 310 g  |
| FBH02CMZ20080 | M20      | 80 mm      | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 46 mm             | 255 g  |
| FBH02CMZ20085 | M20      | 85 mm      | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 46 mm             | 267 g  |
| FBH02CMZ20090 | M20      | 90 mm      | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 46 mm             | 279 g  |
| FBH02CMZ20100 | M20      | 100 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 46 mm             | 303 g  |
| FBH02CMZ20110 | M20      | 110 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 46 mm             | 327 g  |
| FBH02CMZ20120 | M20      | 120 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 46 mm             | 351 g  |
| FBH02CMZ20130 | M20      | 130 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 52 mm             | 374 g  |
| FBH02CMZ20140 | M20      | 140 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 52 mm             | 398 g  |
| FBH02CMZ20150 | M20      | 150 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 52 mm             | 422 g  |
| FBH02CMZ20160 | M20      | 160 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 52 mm             | 446 g  |
| FBH02CMZ20170 | M20      | 170 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 52 mm             | 470 g  |
| FBH02CMZ20180 | M20      | 180 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 52 mm             | 494 g  |
| FBH02CMZ20190 | M20      | 190 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 52 mm             | 519 g  |
| FBH02CMZ20200 | M20      | 200 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 52 mm             | 544 g  |



| Part number   | Size (d) | Length (l) | Thread pitch | Width across flats (s) | Width across corners (e) | Head height (k) | Thread length (b) | Weight    |
|---------------|----------|------------|--------------|------------------------|--------------------------|-----------------|-------------------|-----------|
| FBH02CMZ20220 | M20      | 220 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 65 mm             | 594 g     |
| FBH02CMZ20240 | M20      | 240 mm     | 2.5 mm       | 30 mm                  | 33.53 mm                 | 12.5 mm         | 65 mm             | 644 g     |
| FBH02CMZ24090 | M24      | 90 mm      | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 54 mm             | 428 g     |
| FBH02CMZ24100 | M24      | 100 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 54 mm             | 464 g     |
| FBH02CMZ24110 | M24      | 110 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 54 mm             | 500 g     |
| FBH02CMZ24120 | M24      | 120 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 54 mm             | 535 g     |
| FBH02CMZ24130 | M24      | 130 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 60 mm             | 560 g     |
| FBH02CMZ24140 | M24      | 140 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 60 mm             | 595 g     |
| FBH02CMZ24150 | M24      | 150 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 60 mm             | 630 g     |
| FBH02CMZ24160 | M24      | 160 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 60 mm             | 665 g     |
| FBH02CMZ24170 | M24      | 170 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 60 mm             | 700 g     |
| FBH02CMZ24180 | M24      | 180 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 60 mm             | 735 g     |
| FBH02CMZ24190 | M24      | 190 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 60 mm             | 770 g     |
| FBH02CMZ24200 | M24      | 200 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 60 mm             | 805 g     |
| FBH02CMZ24220 | M24      | 220 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 73 mm             | 870 g     |
| FBH02CMZ24240 | M24      | 240 mm     | 3 mm         | 36 mm                  | 39.98 mm                 | 15 mm           | 73 mm             | 935 g     |
| FBH02CMZ27100 | M27      | 100 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 60 mm             | 606.18 g  |
| FBH02CMZ27110 | M27      | 110 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 60 mm             | 651.13 g  |
| FBH02CMZ27120 | M27      | 120 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 60 mm             | 696.08 g  |
| FBH02CMZ27130 | M27      | 130 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 66 mm             | 741.02 g  |
| FBH02CMZ27140 | M27      | 140 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 66 mm             | 785.97 g  |
| FBH02CMZ27150 | M27      | 150 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 66 mm             | 830.91 g  |
| FBH02CMZ27160 | M27      | 160 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 66 mm             | 875.86 g  |
| FBH02CMZ27170 | M27      | 170 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 66 mm             | 920.8 g   |
| FBH02CMZ27180 | M27      | 180 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 66 mm             | 965.75 g  |
| FBH02CMZ27190 | M27      | 190 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 66 mm             | 1010.69 g |
| FBH02CMZ27200 | M27      | 200 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 66 mm             | 1055.64 g |
| FBH02CMZ27220 | M27      | 220 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 79 mm             | 1145.53 g |
| FBH02CMZ27230 | M27      | 230 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 79 mm             | 1190.48 g |
| FBH02CMZ27240 | M27      | 240 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 79 mm             | 1235.42 g |
| FBH02CMZ27260 | M27      | 260 mm     | 3 mm         | 41 mm                  | 45.2 mm                  | 17 mm           | 79 mm             | 1325.31 g |
| FBH02CMZ30130 | M30      | 130 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 72 mm             | 920 g     |
| FBH02CMZ30140 | M30      | 140 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 72 mm             | 975 g     |
| FBH02CMZ30150 | M30      | 150 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 72 mm             | 1030 g    |
| FBH02CMZ30160 | M30      | 160 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 72 mm             | 1085 g    |
| FBH02CMZ30180 | M30      | 180 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 72 mm             | 1200 g    |



| Part number   | Size (d) | Length (l) | Thread pitch | Width across flats (s) | Width across corners (e) | Head height (k) | Thread length (b) | Weight    |
|---------------|----------|------------|--------------|------------------------|--------------------------|-----------------|-------------------|-----------|
| FBH02CMZ30190 | M30      | 190 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 72 mm             | 1250 g    |
| FBH02CMZ30200 | M30      | 200 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 72 mm             | 1310 g    |
| FBH02CMZ30210 | M30      | 210 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 85 mm             | 1365 g    |
| FBH02CMZ30220 | M30      | 220 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 85 mm             | 1420 g    |
| FBH02CMZ30230 | M30      | 230 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 85 mm             | 1475 g    |
| FBH02CMZ30240 | M30      | 240 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 85 mm             | 1530 g    |
| FBH02CMZ30250 | M30      | 250 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 85 mm             | 1585 g    |
| FBH02CMZ30260 | M30      | 260 mm     | 3.5 mm       | 46 mm                  | 50.85 mm                 | 18.7 mm         | 85 mm             | 1640 g    |
| FBH02CMZ33130 | M33      | 130 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 78 mm             | 1165.39 g |
| FBH02CMZ33140 | M33      | 140 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 78 mm             | 1232.53 g |
| FBH02CMZ33150 | M33      | 150 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 78 mm             | 1299.67 g |
| FBH02CMZ33160 | M33      | 160 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 78 mm             | 1366.81 g |
| FBH02CMZ33170 | M33      | 170 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 78 mm             | 1433.95 g |
| FBH02CMZ33180 | M33      | 180 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 78 mm             | 1501.09 g |
| FBH02CMZ33190 | M33      | 190 mm     | 3.5 mm       | 50 mm                  | 55.37 mm                 | 21 mm           | 78 mm             | 1568.23 g |
| FBH02CMZ36120 | M36      | 120 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 78 mm             | 1320 g    |
| FBH02CMZ36130 | M36      | 130 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 84 mm             | 1390 g    |
| FBH02CMZ36140 | M36      | 140 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 84 mm             | 1470 g    |
| FBH02CMZ36150 | M36      | 150 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 84 mm             | 1550 g    |
| FBH02CMZ36160 | M36      | 160 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 84 mm             | 1630 g    |
| FBH02CMZ36165 | M36      | 165 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 84 mm             | 1670 g    |
| FBH02CMZ36170 | M36      | 170 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 84 mm             | 1710 g    |
| FBH02CMZ36180 | M36      | 180 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 84 mm             | 1790 g    |
| FBH02CMZ36200 | M36      | 200 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 84 mm             | 1950 g    |
| FBH02CMZ36220 | M36      | 220 mm     | 4 mm         | 55 mm                  | 60.79 mm                 | 22.5 mm         | 97 mm             | 2110 g    |

Part numbers: 106

## STANDARDS & CERTIFICATES

### Standards

**DIN 931** – Hex Head Bolt

**ISO 4014** – Hex Head Bolt

