

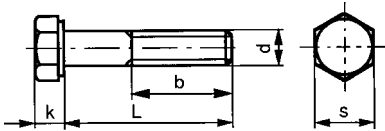
**HEXAGON HEAD BOLTS - STEEL**

ZESKANTBOUTEN - STAAL

VIS A TETE HEXAGONALE - ACIER

TORNILLOS DE CABEZA HEXAGONAL - PARCIALMENTE ROSCADOS - ACERO

SECHSKANTSCHRAUBEN MIT SCHAFT - STAHL

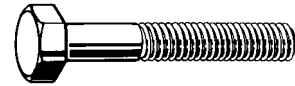


ISO : 4014  
 DIN : 931  
 NEN : 1555  
 ANSI : B18.2.3.1M  
 BS : -  
 NF : E25-112

**GROUPCODE**

STEEL

**04100**



Ordering example:  
**04100 M6 x 30**

**M**  
**St**  
**10.9**

|    | M6 | M8   | M10 | M12  | M14 | M16 | ➔  |
|----|----|------|-----|------|-----|-----|----|
| d  |    |      |     |      |     |     |    |
| P  | 1  | 1,25 | 1,5 | 1,75 | 2   | 2   |    |
| b① | ②  | 18   | 22  | 26   | 30  | 34  | 38 |
|    | ③  | 24   | 28  | 32   | 36  | 40  | 44 |
|    | ④  | -    | -   | 45   | 49  | 53  | 57 |
| k  | 4  | 5,3  | 6,4 | 7,5  | 8,8 | 10  |    |
| s  | 10 | 13   | 17  | 19   | 22  | 24  |    |

**DIMENSION CODE**

| d x L         | STEEL<br>04100<br>C01 | ☒   | d x L          | STEEL<br>04100<br>C01 | ☒   | d x L          | STEEL<br>04100<br>C01 | ☒  |
|---------------|-----------------------|-----|----------------|-----------------------|-----|----------------|-----------------------|----|
| M6 x 30       | 060.030               | 200 | M10 x 100/S=17 | 100.100               | 100 | M14 x 80/S=22  | 140.080               | 50 |
| M6 x 35       | 060.035               | 200 | M10 x 110/S=17 | 100.110               | 50  | M14 x 90/S=22  | 140.090               | 50 |
| M6 x 40       | 060.040               | 200 | M10 x 120/S=17 | 100.120               | 50  | M14 x 100/S=22 | 140.100               | 50 |
| M6 x 45       | 060.045               | 200 | M10 x 130/S=17 | 100.130               | 50  | M14 x 120/S=22 | 140.120               | 50 |
| M6 x 50       | 060.050               | 200 | M10 x 140/S=17 | 100.140               | 50  | M14 x 130/S=22 | 140.130               | 50 |
| M6 x 60       | 060.060               | 200 | M10 x 150/S=17 | 100.150               | 50  | M14 x 140/S=22 | 140.140               | 50 |
| M6 x 70       | 060.070               | 200 | M10 x 160/S=17 | 100.160               | 50  | M14 x 150/S=22 | 140.150               | 25 |
| M6 x 80       | 060.080               | 200 | M10 x 180/S=17 | 100.180               | 50  | M14 x 160/S=22 | 140.160               | 25 |
| M8 x 35       | 080.035               | 200 | M12 x 45/S=19  | 120.045               | 100 | M16 x 55       | 160.055               | 50 |
| M8 x 40       | 080.040               | 200 | M12 x 50/S=19  | 120.050               | 100 | M16 x 60       | 160.060               | 50 |
| M8 x 45       | 080.045               | 200 | M12 x 55/S=19  | 120.055               | 100 | M16 x 65       | 160.065               | 25 |
| M8 x 50       | 080.050               | 200 | M12 x 60/S=19  | 120.060               | 100 | M16 x 70       | 160.070               | 25 |
| M8 x 60       | 080.060               | 200 | M12 x 65/S=19  | 120.065               | 50  | M16 x 75       | 160.075               | 25 |
| M8 x 70       | 080.070               | 200 | M12 x 70/S=19  | 120.070               | 50  | M16 x 80       | 160.080               | 25 |
| M8 x 80       | 080.080               | 200 | M12 x 80/S=19  | 120.080               | 50  | M16 x 90       | 160.090               | 25 |
| M8 x 90       | 080.090               | 100 | M12 x 90/S=19  | 120.090               | 50  | M16 x 100      | 160.100               | 25 |
| M8 x 100      | 080.100               | 100 | M12 x 100/S=19 | 120.100               | 50  | M16 x 110      | 160.110               | 25 |
| M8 x 110      | 080.110               | 100 | M12 x 110/S=19 | 120.110               | 50  | M16 x 120      | 160.120               | 25 |
| M8 x 120      | 080.120               | 100 | M12 x 120/S=19 | 120.120               | 50  | M16 x 130      | 160.130               | 25 |
|               |                       |     | M12 x 130/S=19 | 120.130               | 25  | M16 x 140      | 160.140               | 25 |
| M10 x 40/S=17 | 100.040               | 100 | M12 x 140/S=19 | 120.140               | 25  | M16 x 150      | 160.150               | 25 |
| M10 x 45/S=17 | 100.045               | 100 | M12 x 150/S=19 | 120.150               | 25  | M16 x 160      | 160.160               | 25 |
| M10 x 50/S=17 | 100.050               | 100 | M12 x 160/S=19 | 120.160               | 25  | M16 x 170      | 160.170               | 25 |
| M10 x 55/S=17 | 100.055               | 100 | M12 x 180/S=19 | 120.180               | 25  | M16 x 180      | 160.180               | 25 |
| M10 x 60/S=17 | 100.060               | 100 | M12 x 200/S=19 | 120.200               | 25  | M16 x 200      | 160.200               | 25 |
| M10 x 65/S=17 | 100.065               | 100 |                |                       |     | M16 x 220      | 160.220               | 25 |
| M10 x 70/S=17 | 100.070               | 100 | M14 x 50/S=22  | 140.050               | 50  | M16 x 240      | 160.240               | 10 |
| M10 x 80/S=17 | 100.080               | 100 | M14 x 60/S=22  | 140.060               | 50  | M16 x 250      | 160.250               | 10 |
| M10 x 90/S=17 | 100.090               | 100 | M14 x 70/S=22  | 140.070               | 50  |                |                       |    |

① Size **b** is a guide value, it amounts on the **minimum** length of the threaded part.

② L ≤ 125 mm.

③ 125 mm < L ≤ 200 mm.

④ L > 200 mm.

**WARNING:** electro-galvanizing of these products may cause hydrogen embrittlement.



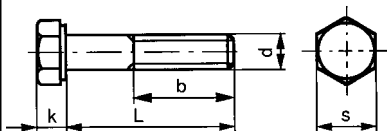
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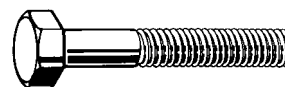


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## GROUPCODE

STEEL

04100



Ordering example:  
 04100 M6 x 30

M  
 St  
 10.9

| d              | M18  | M20  | M24 | M27 | M30  | M33 | M36  |
|----------------|------|------|-----|-----|------|-----|------|
| P              | 2,5  | 2,5  | 3   | 3   | 3,5  | 3,5 | 4    |
| b <sup>②</sup> | 42   | 46   | 54  | 60  | 66   | 72  | 78   |
| b <sup>③</sup> | 48   | 52   | 60  | 66  | 72   | 78  | 84   |
| b <sup>④</sup> | 61   | 65   | 73  | 79  | 85   | 91  | 97   |
| k              | 11,5 | 12,5 | 15  | 17  | 18,7 | 21  | 22,5 |
| s              | 27   | 30   | 36  | 41  | 46   | 50  | 55   |

## DIMENSION CODE

| d x L     | STEEL<br>04100<br>C01 | ☒  | d x L     | STEEL<br>04100<br>C01 | ☒  | d x L     | STEEL<br>04100<br>C01 | ☒ |
|-----------|-----------------------|----|-----------|-----------------------|----|-----------|-----------------------|---|
| M18 x 60  | 180.060               | 25 | M24 x 130 | 240.130               | 10 | M30 x 180 | 300.180               | 5 |
| M18 x 65  | 180.065               | 25 | M24 x 140 | 240.140               | 10 | M30 x 200 | 300.200               | 5 |
| M18 x 70  | 180.070               | 25 | M24 x 150 | 240.150               | 10 | M30 x 220 | 300.220               | 5 |
| M18 x 80  | 180.080               | 25 | M24 x 160 | 240.160               | 10 | M30 x 240 | 300.240               | 5 |
| M18 x 90  | 180.090               | 25 | M24 x 180 | 240.180               | 10 | M30 x 260 | 300.260               | 5 |
| M18 x 100 | 180.100               | 25 | M24 x 200 | 240.200               | 10 | M30 x 280 | 300.280               | 5 |
| M18 x 110 | 180.110               | 25 | M24 x 220 | 240.220               | 10 | M30 x 300 | 300.300               | 5 |
| M18 x 120 | 180.120               | 25 | M24 x 240 | 240.240               | 10 |           |                       |   |
|           |                       |    | M24 x 260 | 240.260               | 10 | M33 x 100 | 330.100               | 5 |
| M20 x 65  | 200.065               | 25 | M24 x 280 | 240.280               | 10 | M33 x 110 | 330.110               | 5 |
| M20 x 70  | 200.070               | 25 |           |                       |    | M33 x 120 | 330.120               | 5 |
| M20 x 75  | 200.075               | 25 | M27 x 80  | 270.080               | 10 | M33 x 130 | 330.130               | 5 |
| M20 x 80  | 200.080               | 25 | M27 x 90  | 270.090               | 10 | M33 x 140 | 330.140               | 5 |
| M20 x 90  | 200.090               | 25 | M27 x 100 | 270.100               | 10 | M33 x 150 | 330.150               | 5 |
| M20 x 100 | 200.100               | 25 | M27 x 110 | 270.110               | 10 | M33 x 160 | 330.160               | 5 |
| M20 x 110 | 200.110               | 25 | M27 x 120 | 270.120               | 10 | M33 x 180 | 330.180               | 2 |
| M20 x 120 | 200.120               | 25 | M27 x 130 | 270.130               | 10 | M33 x 200 | 330.200               | 2 |
| M20 x 130 | 200.130               | 25 | M27 x 140 | 270.140               | 10 | M33 x 240 | 330.240               | 2 |
| M20 x 140 | 200.140               | 25 | M27 x 150 | 270.150               | 10 |           |                       |   |
| M20 x 150 | 200.150               | 25 | M27 x 160 | 270.160               | 10 | M36 x 100 | 360.100               | 5 |
| M20 x 160 | 200.160               | 10 | M27 x 180 | 270.180               | 5  | M36 x 110 | 360.110               | 5 |
| M20 x 180 | 200.180               | 10 | M27 x 200 | 270.200               | 5  | M36 x 120 | 360.120               | 5 |
| M20 x 200 | 200.200               | 10 |           |                       |    | M36 x 130 | 360.130               | 5 |
| M20 x 220 | 200.220               | 10 | M30 x 90  | 300.090               | 10 | M36 x 140 | 360.140               | 5 |
| M20 x 240 | 200.240               | 10 | M30 x 100 | 300.100               | 10 | M36 x 150 | 360.150               | 5 |
|           |                       |    | M30 x 110 | 300.110               | 10 | M36 x 160 | 360.160               | 5 |
| M24 x 75  | 240.075               | 25 | M30 x 120 | 300.120               | 10 | M36 x 180 | 360.180               | 2 |
| M24 x 80  | 240.080               | 25 | M30 x 130 | 300.130               | 10 | M36 x 200 | 360.200               | 2 |
| M24 x 90  | 240.090               | 10 | M30 x 140 | 300.140               | 10 | M36 x 220 | 360.220               | 2 |
| M24 x 100 | 240.100               | 10 | M30 x 150 | 300.150               | 10 | M36 x 240 | 360.240               | 2 |
| M24 x 110 | 240.110               | 10 | M30 x 160 | 300.160               | 10 | M36 x 260 | 360.260               | 2 |
| M24 x 120 | 240.120               | 10 | M30 x 170 | 300.170               | 5  |           |                       |   |

① Size **b** is a guide value, it amounts on the **minimum** length of the threaded part.

②  $L \leq 125$  mm.

③  $125 \text{ mm} < L \leq 200$  mm.

④  $L > 200$  mm.

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