

# Datasheet

**RS Stock No: 281164**

## **A2, 304 Stainless Steel, Hexagon Cap Socket Screws: Metric Thread**



Socket caps have a small cylindrical head with tall, vertical sides giving them space-saving advantages as well as greater tensile strength. They require less side room for wrenches. These socket screws are used in many applications including the manufacture and repair of vehicles, machine tooling, tools and dies, machine production and repair and general engineering applications. Most importantly, socket cap screws provide safety, reliability and cost efficiency.

- Threaded in accordance with DIN 912 Standard
- A2 grade 304 Stainless Steel
- Used for applications with limited space in high tensile applications
- Suitable for the manufacture or repair of machinery and equipment within the food and beverage sector
- Also used in most medical, construction, electronic and domestic applications
- Requires a Hex key / Allen key



**ENGLISH**

Please view our full range listing below for all A2 304 Stainless Steel Hexagon Cap Socket Screws:

| Head Shape     | Material        | Thread Size | Length | RS Part No. |
|----------------|-----------------|-------------|--------|-------------|
| Hex Socket Cap | Stainless Steel | M3          | 6 mm   | 280981      |
| Hex Socket Cap | Stainless Steel | M3          | 8 mm   | 280997      |
| Hex Socket Cap | Stainless Steel | M3          | 10 mm  | 7976266     |
| Hex Socket Cap | Stainless Steel | M3          | 12 mm  | 281007      |
| Hex Socket Cap | Stainless Steel | M3          | 16 mm  | 281013      |
| Hex Socket Cap | Stainless Steel | M3          | 20 mm  | 293319      |
| Hex Socket Cap | Stainless Steel | M3          | 25 mm  | 293325      |
| Hex Socket Cap | Stainless Steel | M3          | 30 mm  | 293331      |
|                |                 |             |        |             |
| Hex Socket Cap | Stainless Steel | M4          | 8 mm   | 281029      |
| Hex Socket Cap | Stainless Steel | M4          | 10 mm  | 7976260     |
| Hex Socket Cap | Stainless Steel | M4          | 12 mm  | 281035      |
| Hex Socket Cap | Stainless Steel | M4          | 16 mm  | 281041      |
| Hex Socket Cap | Stainless Steel | M4          | 20 mm  | 290102      |
| Hex Socket Cap | Stainless Steel | M4          | 25 mm  | 281057      |
| Hex Socket Cap | Stainless Steel | M4          | 30 mm  | 290118      |
| Hex Socket Cap | Stainless Steel | M4          | 40 mm  | 293347      |
|                |                 |             |        |             |
| Hex Socket Cap | Stainless Steel | M5          | 10 mm  | 281063      |
| Hex Socket Cap | Stainless Steel | M5          | 12 mm  | 281079      |
| Hex Socket Cap | Stainless Steel | M5          | 16 mm  | 281085      |
| Hex Socket Cap | Stainless Steel | M5          | 20 mm  | 281091      |
| Hex Socket Cap | Stainless Steel | M5          | 25 mm  | 290124      |
| Hex Socket Cap | Stainless Steel | M5          | 30 mm  | 290130      |
| Hex Socket Cap | Stainless Steel | M5          | 40 mm  | 293353      |
| Hex Socket Cap | Stainless Steel | M5          | 50 mm  | 293369      |



**ENGLISH**

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| Head Shape     | Material        | Thread Size | Length | RS Part No. |
|----------------|-----------------|-------------|--------|-------------|
| Hex Socket Cap | Stainless Steel | M6          | 10mm   | 7976279     |
| Hex Socket Cap | Stainless Steel | M6          | 12 mm  | 281108      |
| Hex Socket Cap | Stainless Steel | M6          | 16 mm  | 281114      |
| Hex Socket Cap | Stainless Steel | M6          | 20 mm  | 281120      |
| Hex Socket Cap | Stainless Steel | M6          | 25 mm  | 281136      |
| Hex Socket Cap | Stainless Steel | M6          | 30 mm  | 290146      |
| Hex Socket Cap | Stainless Steel | M6          | 35 mm  | 293375      |
| Hex Socket Cap | Stainless Steel | M6          | 40 mm  | 293381      |
| Hex Socket Cap | Stainless Steel | M6          | 45 mm  | 293397      |
| Hex Socket Cap | Stainless Steel | M6          | 50 mm  | 293404      |
| Hex Socket Cap | Stainless Steel | M6          | 60 mm  | 293410      |
|                |                 |             |        |             |
| Hex Socket Cap | Stainless Steel | M8          | 16 mm  | 281142      |
| Hex Socket Cap | Stainless Steel | M8          | 20 mm  | 281158      |
| Hex Socket Cap | Stainless Steel | M8          | 25 mm  | 281164      |
| Hex Socket Cap | Stainless Steel | M8          | 30 mm  | 281170      |
| Hex Socket Cap | Stainless Steel | M8          | 35 mm  | 293426      |
| Hex Socket Cap | Stainless Steel | M8          | 40 mm  | 290152      |
| Hex Socket Cap | Stainless Steel | M8          | 45 mm  | 7976272     |
| Hex Socket Cap | Stainless Steel | M8          | 50 mm  | 293432      |
| Hex Socket Cap | Stainless Steel | M8          | 60 mm  | 293448      |
|                |                 |             |        |             |
| Hex Socket Cap | Stainless Steel | M10         | 16 mm  | 293454      |
| Hex Socket Cap | Stainless Steel | M10         | 20 mm  | 293460      |
| Hex Socket Cap | Stainless Steel | M10         | 25 mm  | 7976276     |
| Hex Socket Cap | Stainless Steel | M10         | 30 mm  | 293476      |
| Hex Socket Cap | Stainless Steel | M10         | 35 mm  | 7976285     |
| Hex Socket Cap | Stainless Steel | M10         | 40 mm  | 293482      |
| Hex Socket Cap | Stainless Steel | M10         | 50 mm  | 293498      |
| Hex Socket Cap | Stainless Steel | M10         | 60 mm  | 293505      |
| Hex Socket Cap | Stainless Steel | M10         | 70 mm  | 288935      |

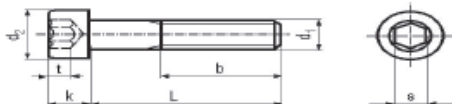


**ENGLISH**

Please view our full range listing below for all A2 304 Stainless Steel Hexagon Cap Socket Screws:

| <b>Head Shape</b> | <b>Material</b> | <b>Thread Size</b> | <b>Length</b> | <b>RS Part No.</b> |
|-------------------|-----------------|--------------------|---------------|--------------------|
| Hex Socket Cap    | Stainless Steel | M12                | 20 mm         | 288941             |
| Hex Socket Cap    | Stainless Steel | M12                | 30 mm         | 288957             |
| Hex Socket Cap    | Stainless Steel | M12                | 40 mm         | 288963             |
| Hex Socket Cap    | Stainless Steel | M12                | 50 mm         | 288979             |
| Hex Socket Cap    | Stainless Steel | M12                | 60 mm         | 288985             |
| Hex Socket Cap    | Stainless Steel | M12                | 70 mm         | 288991             |

## SOCKET HEAD CAP SCREWS DIN 912/ ISO 4762 / ANSI B 18.3.1 M



Head Diameter d2 max. allows for Knurled Head

|                           |        |        |        |        |       |       |        |        |        |        |        |        |        |        |
|---------------------------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>Thread Size d1</b>     | (M1.4) |        | M1.6   |        | M2    |       | M2.5   |        | M2.6   |        | M3     |        | M4     |        |
| <b>Thread Pitch</b>       | 0.3    |        | 0.35   |        | 0.4   |       | 0.45   |        | 0.45   |        | 0.5    |        | 0.7    |        |
| <b>Thread Length b</b>    | 14     |        | 15     |        | 16    |       | 17     |        | NA     |        | 18     |        | 20     |        |
| <b>Head Dia. d2</b>       | min.   | max.   | min.   | max.   | min.  | max.  | min.   | max.   | min.   | max.   | min.   | max.   | min.   | max.   |
| DIN 912 (1983)            | 2.46   | 2.74   | 2.86   | 3.14   | 3.62  | 3.98  | 4.32   | 4.68   | 4.82   | 5.18   | 5.32   | 5.68   | 6.78   | 7.22   |
| ISO 4762 (1997)           |        |        | 2.86   | 3.14   | 3.62  | 3.98  | 4.32   | 4.68   |        |        | 5.32   | 5.68   | 6.78   | 7.22   |
| ANSI B 18.3.1 M (1988)    |        |        | 2.87   | 3.14   | 3.65  | 3.98  | 4.33   | 4.68   |        |        | 5.32   | 5.68   | 6.80   | 7.22   |
| <b>Head Height k</b>      | min.   | max.   | min.   | max.   | min.  | max.  | min.   | max.   | min.   | max.   | min.   | max.   | min.   | max.   |
| DIN 912 (1983)            | 1.26   | 1.40   | 1.46   | 1.60   | 1.86  | 2.00  | 2.36   | 2.50   | 2.46   | 2.60   | 2.86   | 3.00   | 3.82   | 4.00   |
| ISO 4762 (1997)           |        |        | 1.46   | 1.60   | 1.86  | 2.00  | 2.36   | 2.50   |        |        | 2.86   | 3.00   | 3.82   | 4.00   |
| ANSI B 18.3.1 M (1988)    |        |        | 1.52   | 1.60   | 1.91  | 2.00  | 2.40   | 2.50   |        |        | 2.89   | 3.00   | 3.88   | 4.00   |
| <b>Key Size nominal s</b> | 1.3    |        | 1.5    |        | 1.5   |       | 2      |        | 2      |        | 2.5    |        | 3      |        |
| DIN 912 (1983)            | 1.32   | 1.36   | 1.52   | 1.56   | 1.52  | 1.56  | 2.02   | 2.06   | 2.02   | 2.06   | 2.52   | 2.58   | 3.02   | 3.08   |
| ISO 4762 (1997)           |        |        | 1.52   | 1.56   | 1.52  | 1.56  | 2.02   | 2.06   |        |        | 2.52   | 2.58   | 3.02   | 3.08   |
| ANSI B 18.3.1 M (1988)    |        |        | 1.520  | 1.545  | 1.520 | 1.545 | 2.020  | 2.045  |        |        | 2.52   | 2.58   | 3.020  | 3.071  |
| <b>Key Engagement t</b>   | min.   |        | min.   |        | min.  |       | min.   |        | min.   |        | min.   |        | min.   |        |
| DIN 912 (1983)            | 0.6    |        | 0.7    |        | 1     |       | 1.10   |        | 1.2    |        | 1.3    |        | 2      |        |
| ISO 4762 (1997)           |        |        | 0.7    |        | 1     |       | 1.10   |        |        |        | 1.3    |        | 2      |        |
| ANSI B 18.3.1 M (1988)    |        |        | 0.8    |        | 1     |       | 1.25   |        |        |        | 1.5    |        | 2      |        |
| <b>Thread Size d1</b>     | M5     |        | M6     |        | M8    |       | M10    |        | M12    |        | (M14)  |        | M16    |        |
| <b>Thread Pitch</b>       | 0.8    |        | 1      |        | 1.25  |       | 1.5    |        | 1.75   |        | 2      |        | 2      |        |
| <b>Thread Length b</b>    | 22     |        | 24     |        | 28    |       | 32     |        | 36     |        | 40     |        | 44     |        |
| <b>Head Dia. d2</b>       | min.   | max.   | min.   | max.   | min.  | max.  | min.   | max.   | min.   | max.   | min.   | max.   | min.   | max.   |
| DIN 912 (1983)            | 8.28   | 8.72   | 9.78   | 10.22  | 12.73 | 13.27 | 15.73  | 16.27  | 17.73  | 18.27  | 20.67  | 21.33  | 23.67  | 24.33  |
| ISO 4762 (1997)           | 8.28   | 8.72   | 9.78   | 10.22  | 12.73 | 13.27 | 15.73  | 16.27  | 17.73  | 18.27  | 20.67  | 21.33  | 23.67  | 24.33  |
| ANSI B 18.3.1 M (1988)    | 8.27   | 8.72   | 9.74   | 10.22  | 12.70 | 13.27 | 15.67  | 16.27  | 17.63  | 18.27  | 20.6   | 21.33  | 23.58  | 24.33  |
| <b>Head Height k</b>      | min.   | max.   | min.   | max.   | min.  | max.  | min.   | max.   | min.   | max.   | min.   | max.   | min.   | max.   |
| DIN 912 (1983)            | 4.82   | 5.00   | 5.7    | 6.0    | 7.64  | 8.00  | 9.84   | 10.00  | 11.57  | 12.00  | 13.57  | 14.00  | 15.57  | 16.00  |
| ISO 4762 (1997)           | 4.82   | 5.00   | 5.7    | 6.0    | 7.64  | 8.00  | 9.84   | 10.00  | 11.57  | 12.00  | 13.57  | 14.00  | 15.57  | 16.00  |
| ANSI B 18.3.1 M (1988)    | 4.86   | 5.00   | 5.85   | 6.00   | 7.83  | 8.00  | 9.81   | 10.00  | 11.79  | 12.00  | 13.77  | 14.00  | 15.76  | 16.00  |
| <b>Key Size nominal s</b> | 4      |        | 5      |        | 6     |       | 8      |        | 10     |        | 12     |        | 14     |        |
| DIN 912 (1983)            | 4.020  | 4.095  | 5.02   | 5.14   | 6.02  | 6.14  | 8.025  | 8.175  | 10.025 | 10.175 | 12.032 | 12.212 | 14.032 | 14.212 |
| ISO 4762 (1997)           | 4.020  | 4.095  | 5.02   | 5.14   | 6.02  | 6.14  | 8.025  | 8.175  | 10.025 | 10.175 | 12.032 | 12.212 | 14.032 | 14.212 |
| ANSI B 18.3.1 M (1988)    | 4.020  | 4.084  | 5.020  | 5.084  | 6.020 | 6.095 | 8.025  | 8.115  | 10.025 | 10.127 | 12.032 | 12.146 | 14.032 | 14.159 |
| <b>Key Engagement t</b>   | min.   |        | min.   |        | min.  |       | min.   |        | min.   |        | min.   |        | min.   |        |
| DIN 912 (1983)            | 2.5    |        | 3      |        | 4     |       | 5      |        | 6      |        | 7      |        | 8      |        |
| ISO 4762 (1997)           | 2.5    |        | 3      |        | 4     |       | 5      |        | 6      |        | 7      |        | 8      |        |
| ANSI B 18.3.1 M (1988)    | 2.5    |        | 3      |        | 4     |       | 5      |        | 6      |        | 7      |        | 8      |        |
| <b>Thread Size d1</b>     | (M18)  |        | M20    |        | (M22) |       | M24    |        | (M27)  |        | M30    |        | M33    |        |
| <b>Thread Pitch</b>       | 2.5    |        | 2.5    |        | 2.5   |       | 3      |        | 3      |        | 3.5    |        | 3.5    |        |
| <b>Thread Length b</b>    | 48     |        | 52     |        | 56    |       | 60     |        | 66     |        | 72     |        | 78     |        |
| <b>Head Dia. d2</b>       | min.   | max.   | min.   | max.   | min.  | max.  | min.   | max.   | min.   | max.   | min.   | max.   | min.   | max.   |
| DIN 912 (1983)            | 26.67  | 27.33  | 29.67  | 30.33  | 32.61 | 33.39 | 35.61  | 36.39  | 39.61  | 40.39  | 44.61  | 45.39  | 49.61  | 50.39  |
| ISO 4762 (1997)           |        |        | 29.67  | 30.33  |       |       | 35.61  | 36.39  |        |        | 44.61  | 45.39  |        |        |
| ANSI B 18.3.1 M (1988)    |        |        | 29.53  | 30.33  |       |       | 35.48  | 36.39  |        |        | 44.42  | 45.39  |        |        |
| <b>Head Height k</b>      | min.   | max.   | min.   | max.   | min.  | max.  | min.   | max.   | min.   | max.   | min.   | max.   | min.   | max.   |
| DIN 912 (1983)            | 17.57  | 18.00  | 19.48  | 20.00  | 21.48 | 22.00 | 23.48  | 24.00  | 26.48  | 27.00  | 29.48  | 30.00  | 32.38  | 33.00  |
| ISO 4762 (1997)           |        |        | 19.48  | 20.00  |       |       | 23.48  | 24.00  |        |        | 29.48  | 30.00  |        |        |
| ANSI B 18.3.1 M (1988)    |        |        | 19.73  | 20.00  |       |       | 23.70  | 24.00  |        |        | 29.67  | 30.00  |        |        |
| <b>Key Size nominal s</b> | 14     |        | 17     |        | 17    |       | 19     |        | 19     |        | 22     |        | 24     |        |
| DIN 912 (1983)            | 14.032 | 14.212 | 17.05  | 17.23  | 17.05 | 17.23 | 19.065 | 19.275 | 19.065 | 19.275 | 22.065 | 22.275 | 24.065 | 24.275 |
| ISO 4762 (1997)           |        |        | 17.05  | 17.23  |       |       | 19.065 | 19.275 |        |        | 22.065 | 22.275 |        |        |
| ANSI B 18.3.1 M (1988)    |        |        | 17.050 | 17.216 |       |       | 19.065 | 19.243 |        |        | 22.065 | 22.319 |        |        |
| <b>Key Engagement t</b>   | min.   |        | min.   |        | min.  |       | min.   |        | min.   |        | min.   |        | min.   |        |
| DIN 912 (1983)            | 9      |        | 10     |        | 11    |       | 12     |        | 13.5   |        | 15.5   |        | 18     |        |
| ISO 4762 (1997)           |        |        | 10     |        |       |       | 12     |        |        |        | 15.5   |        |        |        |
| ANSI B 18.3.1 M (1988)    |        |        | 10     |        |       |       | 12     |        |        |        | 15.0   |        |        |        |

For More Detailed Information, Please Refer To Complete DIN, ISO, or ANSI Standard, Which Are The Governing Standards.