

## Features

- Can be used in a vast array of applications
- Tightened and loosened by conventional sized Allen keys
- Made from grade 12.9 high tensile steel, making them very strong
- Offers several advantages compared to hexagon headed bolts and set screws
- Bright Zinc Plating (BZP) finish offers good resistance to corrosion
- Conforms to DIN 912 specifications

## RS PRO Socket Screws



RS PRO is the own brand of RS. The RS PRO Seal of Approval is your assurance of professional quality, a guarantee that every part is rigorously tested, inspected, and audited against demanding standards. Making RS PRO the Smart Choice for our customers.

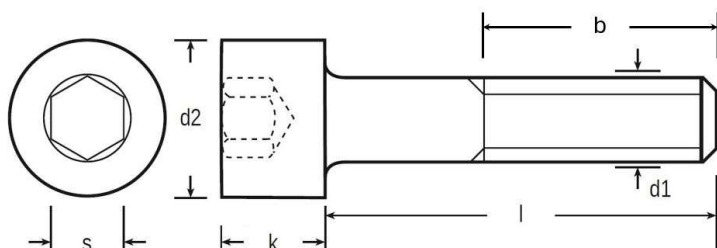
*Hexagon socket head cap screws are used to affix two or more components together. They can be used in a wide variety of applications from the automotive industry to wind farms, and everything in-between, covering a huge span of manufacturing, repair, and maintenance projects.*

*The head style features a knurled cylindrical design with a hexagonal internal drive, enabling the screw to be tightened and loosened with the use of an Allen key (also referred to as an Allen wrench, hex key, or hexagon wrench), as opposed to a traditional screwdriver or spanner/socket wrench.*

*Manufactured from grade 12.9 carbon steel, they are incredibly strong. They are stronger than a conventional hexagon headed bolt or set screw (typically grade 8.8 high tensile steel). Advantages to this include being able to apply an even greater clamping force compared to standard hexagon headed bolts and set screws, resulting in potentially less holes required, leading to greater integral strength of components, as well as a reduction in assembly time, and ultimately, costs.*

*They have a Bright Zinc Plated (BZP) finish applied to them, offering good resistance to corrosion.*

*These screws conform to DIN 912 specifications.*



## Approvals

Standards Met

DIN 912

| Article No. | Diameter d1 | Len (mm) l | Thread Length Min b | Pitch (mm) | Key Size nom s | Head Diameter Range mm d2 | Head Height Range mm k |
|-------------|-------------|------------|---------------------|------------|----------------|---------------------------|------------------------|
| 4838124     | M2.5        | 6          | 17                  | 0.45       | 2              | 4.32-4.68                 | 2.36-2.5               |
| 4838130     | M2.5        | 12         | 17                  | 0.45       | 2              | 4.32-4.68                 | 2.36-2.5               |
| 4838146     | M3          | 6          | 18                  | 0.5        | 2.5            | 5.32-4.68                 | 2.86-3                 |
| 4838168     | M3          | 8          | 18                  | 0.5        | 2.5            | 5.32-5.68                 | 2.86-3                 |
| 4838174     | M3          | 10         | 18                  | 0.5        | 2.5            | 5.32-5.68                 | 2.86-3                 |
| 4915209     | M3          | 12         | 18                  | 0.5        | 2.5            | 5.32-5.68                 | 2.86-3                 |
| 4838180     | M3          | 16         | 18                  | 0.5        | 2.5            | 5.32-5.68                 | 2.86-3                 |
| 4838196     | M3          | 20         | 18                  | 0.5        | 2.5            | 5.32-5.68                 | 2.86-3                 |
| 0606444     | M3          | 25         | 18                  | 0.5        | 2.5            | 5.32-5.68                 | 2.86-3                 |
| 8229322     | M4          | 6          | 20                  | 0.7        | 3              | 6.78-5.68                 | 3.82-4                 |
| 4915215     | M4          | 8          | 20                  | 0.7        | 3              | 6.78-7.22                 | 3.82-4                 |
| 4838203     | M4          | 10         | 20                  | 0.7        | 3              | 6.78-7.22                 | 3.82-4                 |
| 4915221     | M4          | 12         | 20                  | 0.7        | 3              | 6.78-7.22                 | 3.82-4                 |
| 4838225     | M4          | 16         | 20                  | 0.7        | 3              | 6.78-7.22                 | 3.82-4                 |
| 0606445     | M4          | 18         | 20                  | 0.7        | 3              | 6.78-7.22                 | 3.82-4                 |
| 4838231     | M4          | 20         | 20                  | 0.7        | 3              | 6.78-7.22                 | 3.82-4                 |
| 4915237     | M4          | 25         | 20                  | 0.7        | 3              | 6.78-7.22                 | 3.82-4                 |
| 4838247     | M4          | 30         | 20                  | 0.7        | 3              | 6.78-7.22                 | 3.82-4                 |
| 4838253     | M4          | 40         | 20                  | 0.7        | 3              | 6.78-7.22                 | 3.82-4                 |
| 0606446     | M4          | 50         | 20                  | 0.7        | 3              | 6.78-7.22                 | 3.82-4                 |
| 1247268     | M5          | 6          | 22                  | 0.8        | 4              | 8.28-7.22                 | 4.82-5                 |
| 1247269     | M5          | 8          | 22                  | 0.8        | 4              | 8.28-8.72                 | 4.82-5                 |
| 4838269     | M5          | 10         | 22                  | 0.8        | 4              | 8.28-8.72                 | 4.82-5                 |
| 4915243     | M5          | 12         | 22                  | 0.8        | 4              | 8.28-8.72                 | 4.82-5                 |
| 4839981     | M5          | 16         | 22                  | 0.8        | 4              | 8.28-8.72                 | 4.82-5                 |
| 4838275     | M5          | 20         | 22                  | 0.8        | 4              | 8.28-8.72                 | 4.82-5                 |
| 4915259     | M5          | 25         | 22                  | 0.8        | 4              | 8.28-8.72                 | 4.82-5                 |
| 4839997     | M5          | 30         | 22                  | 0.8        | 4              | 8.28-8.72                 | 4.82-5                 |
| 8229325     | M5          | 35         | 22                  | 0.8        | 4              | 8.28-8.72                 | 4.82-5                 |
| 4838281     | M5          | 40         | 22                  | 0.8        | 4              | 8.28-8.72                 | 4.82-5                 |
| 8229329     | M5          | 45         | 22                  | 0.8        | 4              | 8.28-8.72                 | 4.82-5                 |
| 4838297     | M5          | 50         | 22                  | 0.8        | 4              | 8.28-8.72                 | 4.82-5                 |
| 0606357     | M5          | 60         | 22                  | 0.8        | 4              | 8.28-8.72                 | 4.82-5                 |
| 0606358     | M5          | 70         | 22                  | 0.8        | 4              | 8.28-8.72                 | 4.82-5                 |
| 1247270     | M6          | 8          | 24                  | 1          | 5              | 9.78-8.72                 | 5.7-6                  |
| 4838304     | M6          | 10         | 24                  | 1          | 5              | 9.78-10.22                | 5.7-6                  |
| 4838310     | M6          | 12         | 24                  | 1          | 5              | 9.78-10.22                | 5.7-6                  |
| 4838326     | M6          | 16         | 24                  | 1          | 5              | 9.78-10.22                | 5.7-6                  |
| 4840004     | M6          | 20         | 24                  | 1          | 5              | 9.78-10.22                | 5.7-6                  |
| 4838332     | M6          | 25         | 24                  | 1          | 5              | 9.78-10.22                | 5.7-6                  |
| 4838348     | M6          | 30         | 24                  | 1          | 5              | 9.78-10.22                | 5.7-6                  |
| 4915265     | M6          | 35         | 24                  | 1          | 5              | 9.78-10.22                | 5.7-6                  |
| 4840010     | M6          | 40         | 24                  | 1          | 5              | 9.78-10.22                | 5.7-6                  |
| 1247271     | M6          | 45         | 24                  | 1          | 5              | 9.78-10.22                | 5.7-6                  |
| 4838354     | M6          | 50         | 24                  | 1          | 5              | 9.78-10.22                | 5.7-6                  |
| 0606359     | M6          | 55         | 24                  | 1          | 5              | 9.78-10.22                | 5.7-6                  |
| 4838360     | M6          | 60         | 24                  | 1          | 5              | 9.78-10.22                | 5.7-6                  |
| 0606360     | M6          | 65         | 24                  | 1          | 5              | 9.78-10.22                | 5.7-6                  |
| 1247272     | M6          | 70         | 24                  | 1          | 5              | 9.78-10.22                | 5.7-6                  |
| 0606362     | M6          | 75         | 24                  | 1          | 5              | 9.78-10.22                | 5.7-6                  |

| Article No. | Diameter<br>d1 | Length<br>(mm)<br>l | Thread<br>Length<br>Min<br>b | Pitch<br>(mm) | Key<br>Size<br>nom<br>s | Head<br>Diameter<br>Range mm<br>d2 | Head<br>Height<br>Range mm<br>k |
|-------------|----------------|---------------------|------------------------------|---------------|-------------------------|------------------------------------|---------------------------------|
| 0606363     | M6             | 80                  | 24                           | 1             | 5                       | 9.78-10.22                         | 5.7-6                           |
| 0606364     | M6             | 90                  | 24                           | 1             | 5                       | 9.78-10.22                         | 5.7-6                           |
| 0606365     | M6             | 100                 | 24                           | 1             | 5                       | 9.78-10.22                         | 5.7-6                           |
| 1247273     | M8             | 10                  | 28                           | 1.25          | 6                       | 12.73-10.22                        | 7.64-8                          |
| 1247274     | M8             | 12                  | 28                           | 1.25          | 6                       | 12.73-13.27                        | 7.64-8                          |
| 4838382     | M8             | 16                  | 28                           | 1.25          | 6                       | 12.73-13.27                        | 7.64-8                          |
| 4838398     | M8             | 20                  | 28                           | 1.25          | 6                       | 12.73-13.27                        | 7.64-8                          |
| 4915271     | M8             | 25                  | 28                           | 1.25          | 6                       | 12.73-13.27                        | 7.64-8                          |
| 4838405     | M8             | 30                  | 28                           | 1.25          | 6                       | 12.73-13.27                        | 7.64-8                          |
| 4915287     | M8             | 35                  | 28                           | 1.25          | 6                       | 12.73-13.27                        | 7.64-8                          |
| 4838411     | M8             | 40                  | 28                           | 1.25          | 6                       | 12.73-13.27                        | 7.64-8                          |
| 1247275     | M8             | 45                  | 28                           | 1.25          | 6                       | 12.73-13.27                        | 7.64-8                          |
| 4838427     | M8             | 50                  | 28                           | 1.25          | 6                       | 12.73-13.27                        | 7.64-8                          |
| 1247276     | M8             | 55                  | 28                           | 1.25          | 6                       | 12.73-13.27                        | 7.64-8                          |
| 4839515     | M8             | 60                  | 28                           | 1.25          | 6                       | 12.73-13.27                        | 7.64-8                          |
| 1247277     | M8             | 65                  | 28                           | 1.25          | 6                       | 12.73-13.27                        | 7.64-8                          |
| 4839521     | M8             | 70                  | 28                           | 1.25          | 6                       | 12.73-13.27                        | 7.64-8                          |
| 1247278     | M8             | 75                  | 28                           | 1.25          | 6                       | 12.73-13.27                        | 7.64-8                          |
| 4839537     | M8             | 80                  | 28                           | 1.25          | 6                       | 12.73-13.27                        | 7.64-8                          |
| 1247279     | M8             | 90                  | 28                           | 1.25          | 6                       | 12.73-13.27                        | 7.64-8                          |
| 0606366     | M8             | 100                 | 28                           | 1.25          | 6                       | 12.73-13.27                        | 7.64-8                          |
| 0606367     | M8             | 110                 | 28                           | 1.25          | 6                       | 12.73-13.27                        | 7.64-8                          |
| 0606368     | M8             | 120                 | 28                           | 1.25          | 6                       | 12.73-13.27                        | 7.64-8                          |
| 0606369     | M10            | 12                  | 32                           | 1.5           | 8                       | 15.73-13.27                        | 9.64-10                         |
| 1247280     | M10            | 16                  | 32                           | 1.5           | 8                       | 15.73-16.27                        | 9.64-10                         |
| 4840026     | M10            | 20                  | 32                           | 1.5           | 8                       | 15.73-16.27                        | 9.64-10                         |
| 4840032     | M10            | 25                  | 32                           | 1.5           | 8                       | 15.73-16.27                        | 9.64-10                         |
| 4840054     | M10            | 30                  | 32                           | 1.5           | 8                       | 15.73-16.27                        | 9.64-10                         |
| 1247281     | M10            | 35                  | 32                           | 1.5           | 8                       | 15.73-16.27                        | 9.64-10                         |
| 4840060     | M10            | 40                  | 32                           | 1.5           | 8                       | 15.73-16.27                        | 9.64-10                         |
| 1247282     | M10            | 45                  | 32                           | 1.5           | 8                       | 15.73-16.27                        | 9.64-10                         |
| 4840076     | M10            | 50                  | 32                           | 1.5           | 8                       | 15.73-16.27                        | 9.64-10                         |
| 1247283     | M10            | 55                  | 32                           | 1.5           | 8                       | 15.73-16.27                        | 9.64-10                         |
| 1247284     | M10            | 60                  | 32                           | 1.5           | 8                       | 15.73-16.27                        | 9.64-10                         |
| 1247285     | M10            | 65                  | 32                           | 1.5           | 8                       | 15.73-16.27                        | 9.64-10                         |
| 1247286     | M10            | 70                  | 32                           | 1.5           | 8                       | 15.73-16.27                        | 9.64-10                         |
| 1247287     | M10            | 75                  | 32                           | 1.5           | 8                       | 15.73-16.27                        | 9.64-10                         |
| 1247288     | M10            | 80                  | 32                           | 1.5           | 8                       | 15.73-16.27                        | 9.64-10                         |
| 1247289     | M10            | 90                  | 32                           | 1.5           | 8                       | 15.73-16.27                        | 9.64-10                         |
| 0606370     | M10            | 100                 | 32                           | 1.5           | 8                       | 15.73-16.27                        | 9.64-10                         |
| 0606371     | M10            | 120                 | 32                           | 1.5           | 8                       | 15.73-16.27                        | 9.64-10                         |
| 0606372     | M10            | 130                 | 32                           | 1.5           | 8                       | 15.73-16.27                        | 9.64-10                         |
| 0606373     | M10            | 150                 | 32                           | 1.5           | 8                       | 15.73-16.27                        | 9.64-10                         |
| 1247290     | M12            | 20                  | 36                           | 1.75          | 10                      | 17.73-16.27                        | 11.57-12                        |
| 1247291     | M12            | 25                  | 36                           | 1.75          | 10                      | 17.73-18.27                        | 11.57-12                        |
| 1247292     | M12            | 30                  | 36                           | 1.75          | 10                      | 17.73-18.27                        | 11.57-12                        |
| 1247293     | M12            | 35                  | 36                           | 1.75          | 10                      | 17.73-18.27                        | 11.57-12                        |
| 1247294     | M12            | 40                  | 36                           | 1.75          | 10                      | 17.73-18.27                        | 11.57-12                        |
| 1247295     | M12            | 45                  | 36                           | 1.75          | 10                      | 17.73-18.27                        | 11.57-12                        |
| 1247296     | M12            | 50                  | 36                           | 1.75          | 10                      | 17.73-18.27                        | 11.57-12                        |

| Article No. | Diameter<br>d1 | Length<br>(mm)<br>l | Thread<br>Length<br>Min<br>b | Pitch<br>(mm) | Key<br>Size<br>nom<br>s | Head<br>Diameter<br>Range mm<br>d2 | Head<br>Height<br>Range mm<br>k |
|-------------|----------------|---------------------|------------------------------|---------------|-------------------------|------------------------------------|---------------------------------|
| 0606374     | M12            | 55                  | 36                           | 1.75          | 10                      | 17.73-18.27                        | 11.57-12                        |
| 1247297     | M12            | 60                  | 36                           | 1.75          | 10                      | 17.73-18.27                        | 11.57-12                        |
| 1247298     | M12            | 65                  | 36                           | 1.75          | 10                      | 17.73-18.27                        | 11.57-12                        |
| 1247299     | M12            | 70                  | 36                           | 1.75          | 10                      | 17.73-18.27                        | 11.57-12                        |
| 1247300     | M12            | 75                  | 36                           | 1.75          | 10                      | 17.73-18.27                        | 11.57-12                        |
| 1247301     | M12            | 80                  | 36                           | 1.75          | 10                      | 17.73-18.27                        | 11.57-12                        |
| 0606375     | M12            | 90                  | 36                           | 1.75          | 10                      | 17.73-18.27                        | 11.57-12                        |
| 0606376     | M12            | 100                 | 36                           | 1.75          | 10                      | 17.73-18.27                        | 11.57-12                        |
| 0606378     | M12            | 110                 | 36                           | 1.75          | 10                      | 17.73-18.27                        | 11.57-12                        |
| 1247302     | M12            | 120                 | 36                           | 1.75          | 10                      | 17.73-18.27                        | 11.57-12                        |
| 0606379     | M12            | 130                 | 36                           | 1.75          | 10                      | 17.73-18.27                        | 11.57-12                        |
| 0606380     | M12            | 140                 | 36                           | 1.75          | 10                      | 17.73-18.27                        | 11.57-12                        |
| 0606381     | M12            | 150                 | 36                           | 1.75          | 10                      | 17.73-18.27                        | 11.57-12                        |
| 0606382     | M14            | 30                  | 40                           | 2             | 12                      | 20.67-18.27                        | 13.57-14                        |
| 0606384     | M14            | 50                  | 40                           | 2             | 12                      | 20.67-21.33                        | 13.57-14                        |
| 1247303     | M16            | 30                  | 44                           | 2             | 14                      | 23.67-21.33                        | 15.57-16                        |
| 0606385     | M16            | 35                  | 44                           | 2             | 14                      | 23.67-24.33                        | 15.57-16                        |
| 1247304     | M16            | 40                  | 44                           | 2             | 14                      | 23.67-24.33                        | 15.57-16                        |
| 1247305     | M16            | 45                  | 44                           | 2             | 14                      | 23.67-24.33                        | 15.57-16                        |
| 1247306     | M16            | 50                  | 44                           | 2             | 14                      | 23.67-24.33                        | 15.57-16                        |
| 0606386     | M16            | 55                  | 44                           | 2             | 14                      | 23.67-24.33                        | 15.57-16                        |
| 1247307     | M16            | 60                  | 44                           | 2             | 14                      | 23.67-24.33                        | 15.57-16                        |
| 1247308     | M16            | 65                  | 44                           | 2             | 14                      | 23.67-24.33                        | 15.57-16                        |
| 1247309     | M16            | 70                  | 44                           | 2             | 14                      | 23.67-24.33                        | 15.57-16                        |
| 1247310     | M16            | 80                  | 44                           | 2             | 14                      | 23.67-24.33                        | 15.57-16                        |
| 0606387     | M16            | 90                  | 44                           | 2             | 14                      | 23.67-24.33                        | 15.57-16                        |
| 1247312     | M16            | 100                 | 44                           | 2             | 14                      | 23.67-24.33                        | 15.57-16                        |
| 0606447     | M16            | 140                 | 44                           | 2             | 14                      | 23.67-24.33                        | 15.57-16                        |
| 1247313     | M20            | 50                  | 52                           | 2.5           | 17                      | 29.67-24.33                        | 19.48-20                        |
| 0606448     | M20            | 60                  | 52                           | 2.5           | 17                      | 29.67-30.33                        | 19.48-20                        |
| 0606449     | M20            | 65                  | 52                           | 2.5           | 17                      | 29.67-30.33                        | 19.48-20                        |
| 0606450     | M20            | 70                  | 52                           | 2.5           | 17                      | 29.67-30.33                        | 19.48-20                        |
| 1247316     | M20            | 80                  | 52                           | 2.5           | 17                      | 29.67-30.33                        | 19.48-20                        |
| 1247317     | M20            | 90                  | 52                           | 2.5           | 17                      | 29.67-30.33                        | 19.48-20                        |
| 1247318     | M20            | 100                 | 52                           | 2.5           | 17                      | 29.67-30.33                        | 19.48-20                        |