westfieldfasteners.co.uk
+44 (0)1844 201133
enquiries@westfieldfasteners.co.uk

Browse Product Range >

### Westfield Fasteners Product Specification:

# DIN 6923 - Plain Hex Flange Nuts

This product guide contains the specification for metric plain hex flange nuts, a series of standard parts available from Westfield Fasteners. The basis of this specification is the DIN standard DIN 6923.

## Product Description

A hexagon nut with plain unserrated flange, to DIN 6923. The flange offers protection for the bolted component where the driving tool may otherwise scratch its surface. The flange also lessens the need to use a washer. This particular version is non-serrated on the base. A serrated variant is also available.

## Scope of the DIN standard.

DIN 6923 for hexagon nuts with flange, specifies the form, dimensions and tolerances for coarse and fine pitch thread variants, with nominal diameters from M5 up to and including M20. Please note that M3 and M4 diameters are not manufactured to the DIN standard as DIN 6923 does not cover these diameters.

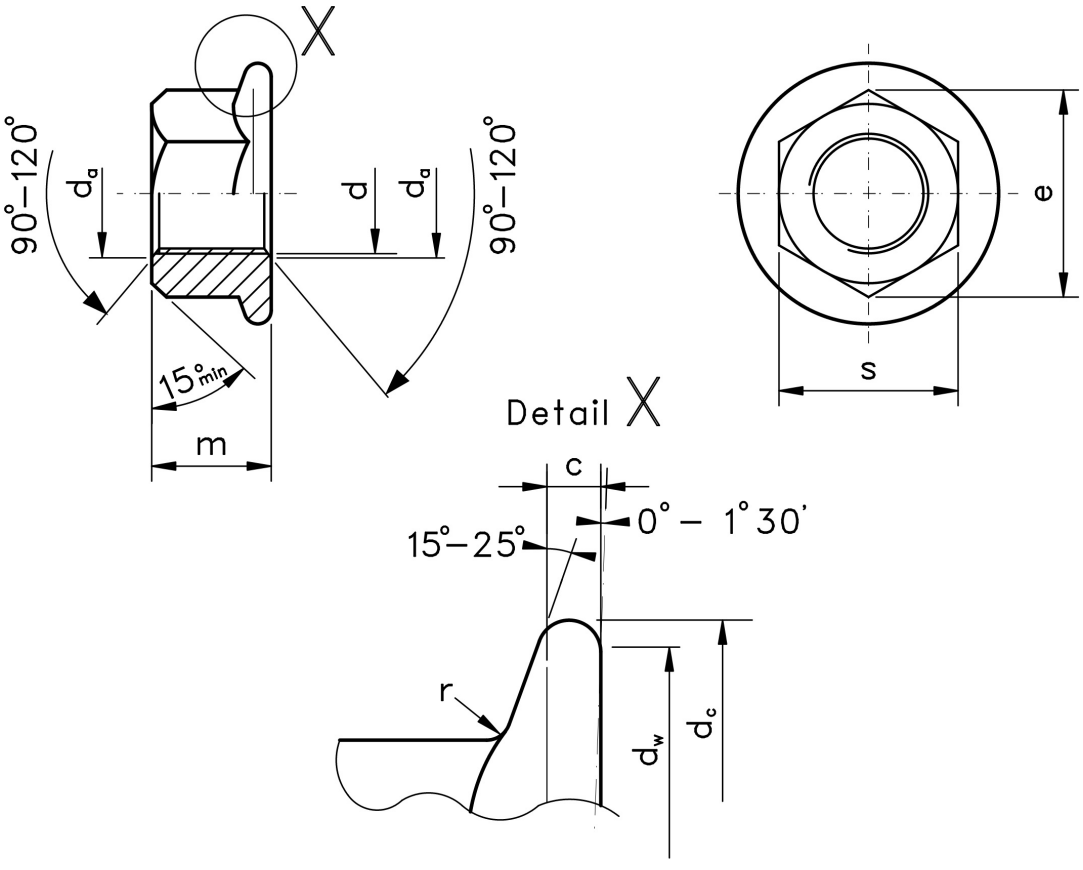


**Figure 1: Plain Hex Flange Nut**

**Table 1: Dimensions & Tolerances according to DIN 6923 (mm)**

| **Thread, d** | | **(M3)** | **(M4)** | **M5** | **M6** | **M8** | **M10** | **M12** | **M14** | **M16** | **M20** |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pitch, p | | 0.5 | 0.7 | 0.8 | 1 | 1.25 | 1.5 | 1.75 | 2 | 2 | 2.5 |
| Flange Thickness, c | min | - | - | 1 | 1.1 | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 3 |
| Inner Bearing Surface Diameter, $d_a$ | min | - | - | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 20 |
| | max | - | - | 5.75 | 6.75 | 8.75 | 10.8 | 13 | 15.1 | 17.3 | 21.6 |
| Flange Diameter, $d_c$ | max | 7.8 | 10 | 11.8 | 14.2 | 17.9 | 21.8 | 26 | 29.9 | 34.5 | 42.8 |
| Outer Bearing Surface Diameter, $d_w$ | min | - | - | 9.8 | 12.2 | 15.8 | 19.6 | 23.8 | 27.6 | 31.9 | 39.9 |
| Hex Corner to Corner, e | min | 6.33 | 7.66 | 8.79 | 11.05 | 14.38 | 16.64 | 20.03 | 23.36 | 26.75 | 32.95 |
| Nut Height, m | max | 3.8 | 4.65 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 20 |
| | min | - | - | 4.7 | 5.7 | 7.6 | 9.6 | 11.6 | 13.3 | 15.3 | 18.9 |
| Spanner Size, s | nom=max | 5.5 | 7 | 8 | 10 | 13 | 15 | 18 | 21 | 24 | 30 |
| | min | - | - | 7.78 | 9.78 | 12.73 | 14.73 | 17.73 | 20.67 | 23.67 | 29.67 |
| Radius, r | max | - | - | 0.3 | 0.36 | 0.48 | 0.6 | 0.72 | 0.88 | 0.96 | 1.2 |

For further details, please refer to the ISO/DIN standard document for this item.

E&OE