



 [westfieldfasteners.co.uk](http://westfieldfasteners.co.uk)  
 +44 (0)1844 201133  
 [enquiries@westfieldfasteners.co.uk](mailto:enquiries@westfieldfasteners.co.uk)

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## Westfield Fasteners Product Specification:

### DIN 936 - Hex Thin Nuts (Standard Pitch)

This product guide contains the specification for a type of metric threaded hexagon thin nut, specifically manufactured to the DIN standard DIN 936. This item is a standard part available from Westfield Fasteners.

#### Product Description

Hex thin nuts manufactured to DIN 936 are a low type hex nut. Their height is between that of a standard full nut (DIN 934) and the more popular and well known DIN 439 half nut. These nuts are also known as thin nuts or jam nuts and are often used in conjunction with other nuts in a locking arrangement. The slim flat profile of these hex nuts makes them useful where space is limited or where there is only a few threads of a bolt to engage with.

#### Scope of the DIN Standard

DIN 936 specifies the tolerances and variation of a form of metric threaded thin hexagon nut, for sizes from M8 up to and including M52. Fine pitch variants are also covered under this standard.

Table 1 below defines the overall dimensions and tolerances for these hex thin nuts manufactured to DIN 936.

The last edition of DIN 936 recommends manufacturers move to DIN 439 for nuts of this type. DIN 439 has itself been superseded since by ISO 4035. Despite this, off the shelf parts are currently more generally available in the older two specifications.

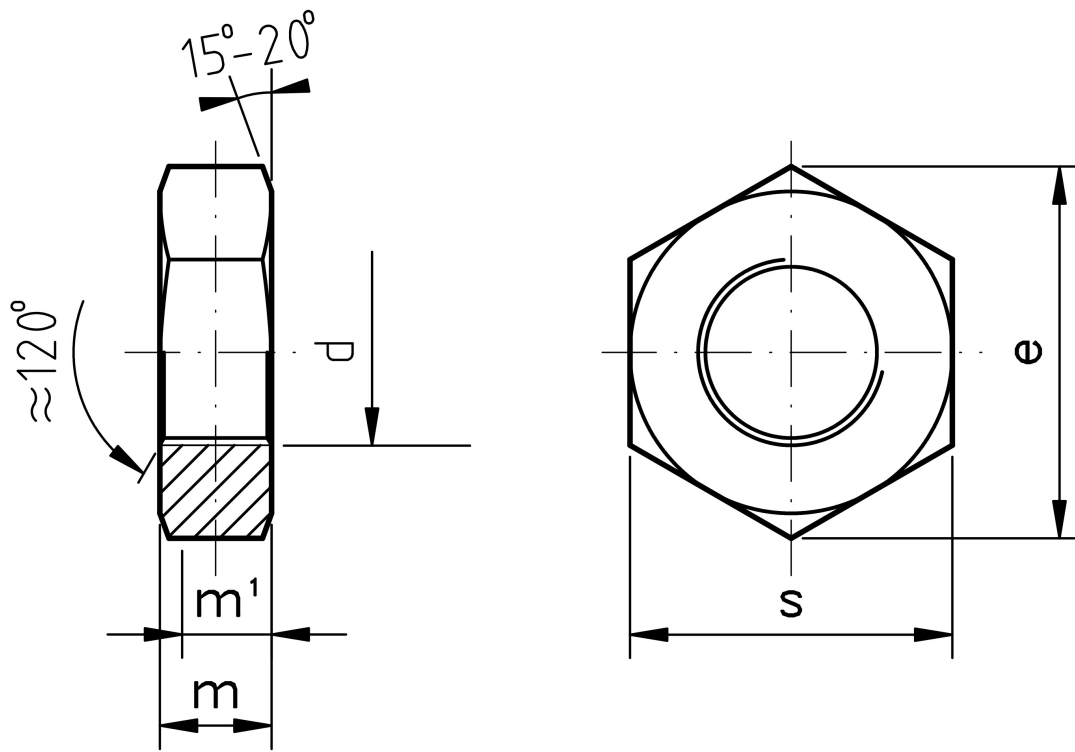


Figure 1: Hex Thin Nuts to DIN 936

### Variations from DIN 936

DIN 936 covers materials including carbon steel, and A2 stainless steel. The hex nuts we stock in other materials and grades are made with reference to this standard, but are not mentioned specifically.

Table 1: Dimensions & Tolerances according to DIN 936 (mm)

| Thread Size   |         | M8    | M10      | M12      | M14     | M16     | M18     | M20     | M22     | M24     | M27     | M30     | M33     | M36     | M39     | M42     | M45     | M48     | M52     |
|---|---------|-------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|   |         | M8x1  | M10x1    | M12x1.25 | M14x1.5 | M16x1.5 | M18x1.5 | M20x1.5 | M22x1.5 | M24x1.5 | M27x1.5 | M30x1.5 | M33x1.5 | M36x1.5 | M39x1.5 | M42x1.5 | M45x1.5 | M48x1.5 | M52x1.5 |
|   |         | -     | M10x1.25 | M12x1.5  | -       | -       | M18x2   | M20x2   | M22x2   | M24x2   | M27x2   | M30x2   | M33x2   | M36x2   | M39x2   | M42x2   | M45x2   | M48x2   | M52x2   |
|   |         | -     | -        | -        | -       | -       | -       | -       | -       | -       | -       | -       | -       | M36x3   | M39x3   | M42x3   | M45x3   | M48x3   | M52x3   |
| p   |         | 1.25  | 1.5      | 1.75     | 2       | 2       | 2.5     | 2.5     | 2.5     | 3       | 3       | 3.5     | 3.5     | 4       | 4       | 4.5     | 4.5     | 5       | 5       |
| d <sub>2</sub>  | min     | 8     | 10       | 12       | 14      | 16      | 18      | 20      | 22      | 24      | 27      | 30      | 33      | 36      | 39      | 42      | 45      | 48      | 52      |
|   | max     | 8.75  | 10.8     | 13       | 15.1    | 17.3    | 19.5    | 21.6    | 23.7    | 25.9    | 29.1    | 32.4    | 35.6    | 38.9    | 42.1    | 45.4    | 48.6    | 51.8    | 56.2    |
| d <sub>w</sub>  | min     | 11.3  | 15.3     | 17.2     | 20.2    | 22.2    | 25.3    | 28.2    | 29.5    | 33.2    | 38      | 42.7    | 46.6    | 51.1    | 55.9    | 60.6    | 64.7    | 69.4    | 74.2    |
| e   | min     | 15.38 | 18.90    | 21.1     | 24.49   | 26.75   | 29.56   | 32.95   | 35.03   | 39.55   | 45.20   | 50.85   | 55.37   | 60.79   | 66.44   | 71.30   | 78.95   | 82.60   | 88.25   |
| m   | max=nom | 5     | 6        | 7        | 8       | 8       | 9       | 9       | 10      | 10      | 12      | 12      | 14      | 14      | 16      | 16      | 18      | 18      | 20      |
|   | min     | 4.7   | 5.7      | 6.64     | 7.42    | 7.42    | 8.42    | 8.1     | 9.1     | 9.1     | 10.9    | 10.9    | 12.9    | 12.9    | 14.9    | 14.9    | 16.9    | 16.9    | 18.7    |
| m <sup>1</sup>  | min     | 3.8   | 4.6      | 5.3      | 5.9     | 5.9     | 6.7     | 6.5     | 7.3     | 7.3     | 8.7     | 8.7     | 10.3    | 10.3    | 11.9    | 11.9    | 13.5    | 13.5    | 15.0    |
| s   | max=nom | 13    | 17       | 19       | 22      | 24      | 27      | 30      | 32      | 36      | 41      | 46      | 50      | 55      | 60      | 65      | 70      | 75      | 80      |
|   | min     | 12.73 | 16.73    | 18.67    | 21.67   | 23.67   | 26.16   | 29.16   | 31      | 35      | 40      | 45      | 49      | 53.8    | 58.8    | 63.1    | 68.1    | 73.1    | 78.1    |
| Mass (7.85 kg/dm <sup>3</sup> ), in kg per 1000 units = |         | 4     | 8.6      | 12.1     | 18.2    | 20.1    | 29.6    | 36.3    | 43.8    | 58      | 90      | 110     | 155     | 190     | 260     | 307     | 400     | 460     | 580     |

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