



# Hobson Class 8 Metric Hex Nuts

Hot dip galvanised, AS 1112.1, M6-M12 coarse-thread range

| Product | Specification | Property class | Finish             |
|---------|---------------|----------------|--------------------|
| Hex nut | AS 1112.1     | Class 8        | Hot dip galvanised |

## Range identification

| Hobson stock code | QFind    | Size / thread | Spanner AF | Inner pack | Inner barcode |
|-------------------|----------|---------------|------------|------------|---------------|
| NH08GCM06         | NHMC806G | M6 x 1.00     | 10 mm      | 1,000      | 9314818734080 |
| NH08GCM08         | NHMC808G | M8 x 1.25     | 13 mm      | 500        | 9314818734097 |
| NH08GCM10         | NHMC810G | M10 x 1.50    | 16 mm      | 200        | 9314818734103 |
| NH08GCM12         | NHMC812G | M12 x 1.75    | 18 mm      | 200        | 9314818734110 |

Pack quantity and barcode refer to Hobson's inner pack. Outer pack quantities are 3,000 (M6), 1,500 (M8), 800 (M10) and 600 (M12).

## Mechanical properties

| Size | Pitch   | Tensile stress area   | Stress under proof load | Minimum proof load |
|------|---------|-----------------------|-------------------------|--------------------|
| M6   | 1.00 mm | 20.10 mm <sup>2</sup> | 870 MPa                 | 17.49 kN           |
| M8   | 1.25 mm | 36.60 mm <sup>2</sup> | 870 MPa                 | 31.84 kN           |
| M10  | 1.50 mm | 58.00 mm <sup>2</sup> | 870 MPa                 | 50.46 kN           |
| M12  | 1.75 mm | 84.30 mm <sup>2</sup> | 880 MPa                 | 74.18 kN           |

Proof values above are Hobson's published Class 8 hex-nut values. They are proof-load ratings, not allowable joint loads; connection capacity must be established by the responsible designer.

## Coating and service suitability

**HDG coating:** Hobson specifies hot dip galvanising to AS/NZS 1214, with a typical coating thickness of 50 micrometres and high corrosion resistance. Hobson recommends HDG fasteners for long-term outdoor applications. Coating appearance can vary naturally in shade without indicating reduced protection.

## Selection and installation guidance

| Requirement     | Practical guidance                                                                                                                                                                                                                                        |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mating fastener | Use a compatible metric coarse-thread fastener of the same nominal diameter and a finish/thread allowance suitable for HDG. Class 8 nuts are normally selected for use with property class 8.8 bolts, subject to the governing joint standard and design. |
| Tool size       | AS 1112 across-flats sizes: M6 10 mm, M8 13 mm, M10 16 mm and M12 18 mm.                                                                                                                                                                                  |
| Tightening      | Set tightening torque from the bolt grade, diameter, lubrication/coating condition and joint design. A nut proof load does not by itself establish an installation torque.                                                                                |
| Assembly checks | Confirm clean, undamaged threads and free hand engagement before tightening. Do not force mismatched standard or non-HDG threads. Replace components showing thread damage, galling or significant coating loss.                                          |

## Source documents

- Hobson product pages: [hobson.com.au/part/NH08GCM06](http://hobson.com.au/part/NH08GCM06), [/NH08GCM08](http://hobson.com.au/part/NH08GCM08), [/NH08GCM10](http://hobson.com.au/part/NH08GCM10) and [/NH08GCM12](http://hobson.com.au/part/NH08GCM12)
- Hobson Hex Nut Properties: [content.hobson.com.au/documents/tech-hex-nut-properties.pdf](http://content.hobson.com.au/documents/tech-hex-nut-properties.pdf)
- Hobson Spanner Selection for Hex Bolts and Nuts - Metric: [content.hobson.com.au/documents/hsd-spanner-selection-metric-extended.pdf](http://content.hobson.com.au/documents/hsd-spanner-selection-metric-extended.pdf)
- Hobson Product Finish Comparison: [content.hobson.com.au/documents/product-finish-comparison-2109151.pdf](http://content.hobson.com.au/documents/product-finish-comparison-2109151.pdf)
- Hobson High-Tensile Product Guide: [content.hobson.com.au/category/high-tensile/hobson-high-tensile-product-guide.pdf](http://content.hobson.com.au/category/high-tensile/hobson-high-tensile-product-guide.pdf)