

## MHT Series

# Low scatter locking torque, high fatigue self-locking nut

A conical shaped nuts, where the diameter of the upper part of the nut is slightly reduced. Six vertical slots will open gradually whilst the nut is screwed onto the bolt. The elasticity provided by the particular shape of the nut will ensure the required locking torque.

### Benefits

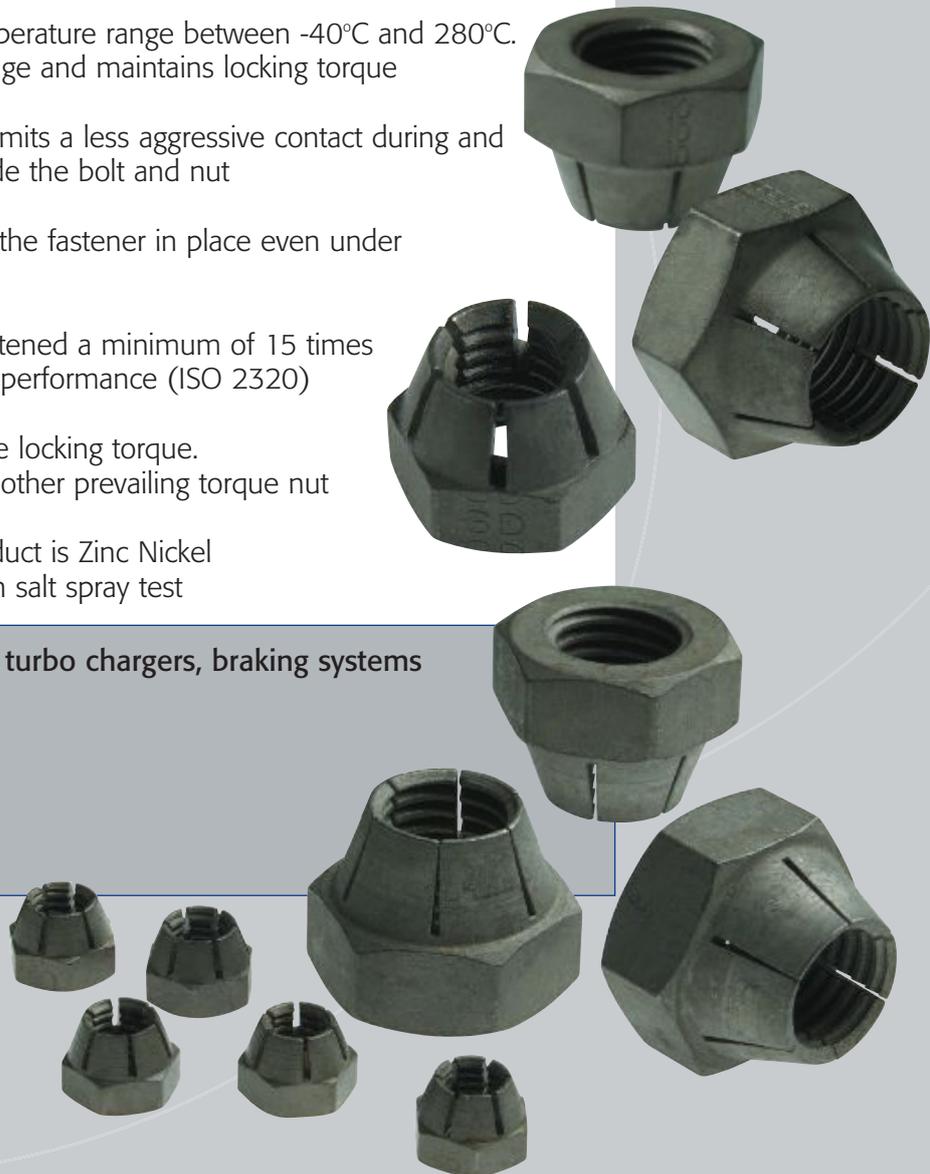
- **Temperature resistance** – Operating temperature range between  $-40^{\circ}\text{C}$  and  $280^{\circ}\text{C}$ . Reacts swiftly to sudden temperature change and maintains locking torque
- **High Fatigue resistance** – Nut design permits a less aggressive contact during and after installation reducing stress levels inside the bolt and nut
- **Vibration resistant** – The six beams hold the fastener in place even under extreme vibration
- **Re-usability** – Can be fastened and unfastened a minimum of 15 times without compromising minimum required performance (ISO 2320)
- **Consistency** – Extremely low scatter of the locking torque. Locking torque more predictable than any other prevailing torque nut
- **Corrosion resistance** – The standard product is Zinc Nickel plated achieving a minimum 720 hours on salt spray test

**Popular Applications:** Pumps, engines, turbo chargers, braking systems

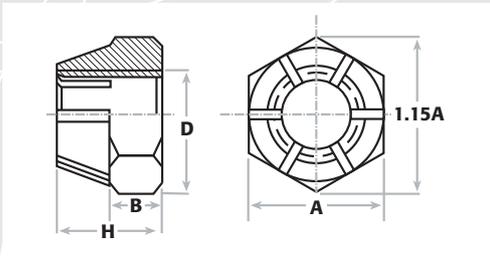
**Diameters:** M5 - M20

**Materials:** Steel Class 8

**Standard Coating:** Zinc Nickel



Self-locking effect obtained by RADIAL deformation of the upper part of the thread



All dimensions are in mm unless stated.

Nominal diameter (mm)	Pitch	Part Number	A h 13	B h 14	H h 14	Weight in Kg
5	0.80	MHT 80/105	8	3.1	6.5	0.128
6	1	MHT 80/106	10	4.4	8.4	0.273
8	1.25	MHT 80/108	13	4.6	9.2	0.471
10	1.5	MHT 80/110	17	5.9	12	1.063
12	1.75	MHT 80/112	19	7.7	15.6	1.650
14	2.00	MHT 80/114	22	8.5	17.2	2.480
16	2	MHT 80/116	24	9.5	19.2	3.225
18	2.50	MHT 80/118	27	10.4	21	4.410
20	2.50	MHT 80/120	30	11.5	22.4	6.025

The above mentioned references are regular stock items

**Material:** Semi hard steel Class 8 according to ISO  
**Protection:** Zinc Nickel  
**Standards:** ISO profile conform to NFE 03001  
 Diameter and pitch conform to NFE 03014  
 Tolerances conform to NFE 03053 (class 6 H)  
 NFE 25411

Howmet Fastening Systems

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**BSI Registered**

FM 500602 ISO 9001:2000  
 TS 507118-000 ISO/TS 16949:2002  
 FM 500661 EN 9100:2003  
 FM 50061 AS 9100 Rev. B  
 EMS 500663 ISO 14001:2004