

DHE Series

12 Point Nut - for Extremely High Torque Control

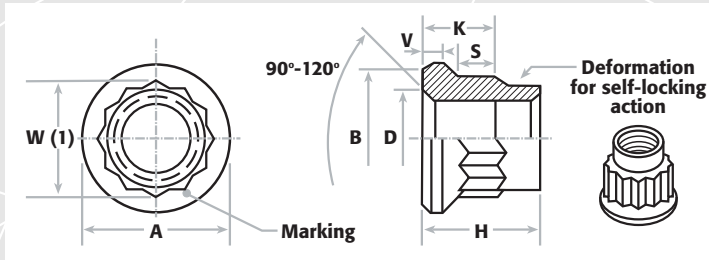
12 point nut – allowing very high torque control.
Ideal for difficult reach applications.

Benefits

- **Lightweight** - Thin walled nuts, takes less space
- **Very high resistance to loosening**
- **Very high mechanical resistance** 1100 MPA
- **Very high locking torque**
- **Consistency of performance** – Almost no locking torque scatter
- **Flanged** – Ideal for thin sheet material
- **Temperature & Corrosion resistance** – Operating temperature range between -40°C and 480°C – manufactured in CRES A286 Stainless Steel silver plated
- **Re-usability** – Can be fastened and unfastened a minimum of 15 times without compromising minimum required performance

Popular applications:	Engine
Diameters:	M4-M24
Materials:	CRES A286 Stainless Steel / Alloy steel
Standard Coating:	Silver plating





Material - Steel

All dimensions are in mm unless stated.

Simmonds Part Number	Thread	A max.	B min.	D		H min.	K max.	S min.	V min.	W (1)	Mass Weight Kg 100pcs Approx
				min.	max.						
4070 DHE 235 M	MJ4x0,70 - 4H6H	7,4	6,7	4,8	4,2	5,6	4,2	1,8	1,2	6	0,14
5080 DHE 235 M	MJ5x0,80 - 4H6H	9,1	8,3	5,8	5,2	7	4,9	2		7	0,18
6100 DHE 235 M	MJ6x1,00 - 4H5H	10,6	9,8	7,1	6,3	8,1	5,5	2,3		8	0,22
7100 DHE 235 M	MJ7x1,00 - 4H5H	12,1	11,3	8,1	7,3	9,1	6,1	2,6		9	0,30
8100 DHE 235 M	MJ8x1,00 - 4H5H	13,6	12,8	9,1	8,3	11,1	6,7	2,8		10	0,45
10125 DHE 235 M	MJ10x1,25 - 4H5H	16,8	15,8	11,1	10,3	13	8,8	3,1		12	0,78
12125 DHE 235 M	MJ12x1,25 - 4H5H	19,9	18,8	13,1	12	15	9,5	3,5	1,4	14	1,20
14150 DHE 235 M	MJ14x1,50 - 4H5H	23	21,9	15,2	14	17,5	11,2	4	1,7	17	2,35
16150 DHE 235 M	MJ16x1,50 - 4H5H	26	24,9	17,2	16,4	20	12,3	4,7	1,9	19	2,90
18150 DHE 235 M	MJ18x1,50 - 4H5H	29,1	28	19,2	18	22,5	14,2	5,6	2,1	22	4,00
20150 DHE 235 M	MJ20x1,50 - 4H5H	32,3	31,2	21,2	20	25	16,2	6,8	2,3	24	5,30
22150 DHE 235 M	MJ22x1,50 - 4H5H	35,4	34,3	23,2	22,4	27,5	17,6	8,3	2,5	27	6,00
24200 DHE 235 M	MJ24x2,00 - 4H5H	39	36,9	25,3	24	30	19,4	10,1	2,7	30	8,00

Ra max $\sqrt{6,3}$ $\sqrt{1,6}$
Remove sharp edges 0,1 - 0,4

(1) Bihexagonal wrenching configuration in accordance with ISO 4095

Material:

Alloy steel 30CD4 or 35CD4 in accordance with TR 3791, heat treated for 40 - 43 HRC.

Surface Treatment:

Cadmium coating 5 µm minimum in accordance with EN 2133 + Dry film lubricant in accordance with EN 2491.

Classification:

1550 MPa (at ambient temperature) /235 °C.

Thread:

MJ in accordance with ISO 5855-2.

Tolerances of Form and Position:

In accordance with ISO 8788.

Marking:

MJ-SD in accordance with EN 2424 - Category N, on the area indicated on the drawing.

Qualification & Acceptance Conditions: ISO 5858.

Material - Stainless Steel

All dimensions are in mm unless stated.

Simmonds Part Number	Thread	A max.	B min.	D		H min.	K max.	S min.	V min.	W (1)	Mass Weight Kg 100pcs Approx
				min.	max.						
5080 DHE7-10CM	MJ5x0,80 - 4H6H	9,1	8,3	5,8	5,2	7	4,9	2	1,2	7	0,16
6100 DHE7-10CM	MJ6x1,00 - 4H5H	10,6	9,8	7,1	6,3	8,1	5,5	2,3		8	0,23
7100 DHE7-10CM	MJ7x1,00 - 4H5H	12,1	11,3	8,1	7,3	9,1	6,1	2,6		9	0,32
8100 DHE7-10CM	MJ8x1,00 - 4H5H	13,6	12,8	9,1	8,3	10,4	6,9	2,8		10	0,43
10125 DHE7-10CM	MJ10x1,25 - 4H5H	16,8	15,8	11,1	10,3	13	8,8	3,1		12	0,77
12125 DHE7-10CM	MJ12x1,25 - 4H5H	19,9	18,8	13,1	12,3	15	10,1	3,5		1,4	14
14150 DHE7-10CM	MJ14x1,50 - 4H5H	23	21,9	15,2	14,4	17,5	12,6	4	1,7	17	1,98
16150 DHE7-10CM	MJ16x1,50 - 4H5H	26	24,9	17,2	16,4	20	12,3	4,7	1,9	19	2,90

Ra max $\sqrt{6,3}$ $\sqrt{1,6}$
Remove sharp edges 0,1 - 0,4

Contact Alcoa for the diameter/type in manufacturing

Material:

Corrosion resistant steel A286 or Z6NCT25 or equivalent, heat treated for 27 - 41 HRC.

Surface Treatment:

Silver plated 5µm to 15µm in accordance with EN 2786.

Classification:

1100 MPa (at room temperature) / 650 °C.

Thread:

MJ in accordance with ISO 5855-2.

Tolerances of Form and Position:

In accordance with ISO 8788.

Marking:

Ø 5 to 14 mm: EN 2907-Ø-SD in accordance with EN 2424-Category A on the area indicated on the drawing.

Ø ≥ 16 mm: CME6-MJ-SD in accordance with NFL 22036 on the area indicated on the drawing.

Qualification & Acceptance Conditions: EN 3004.

Alcoa 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