

## PH Series

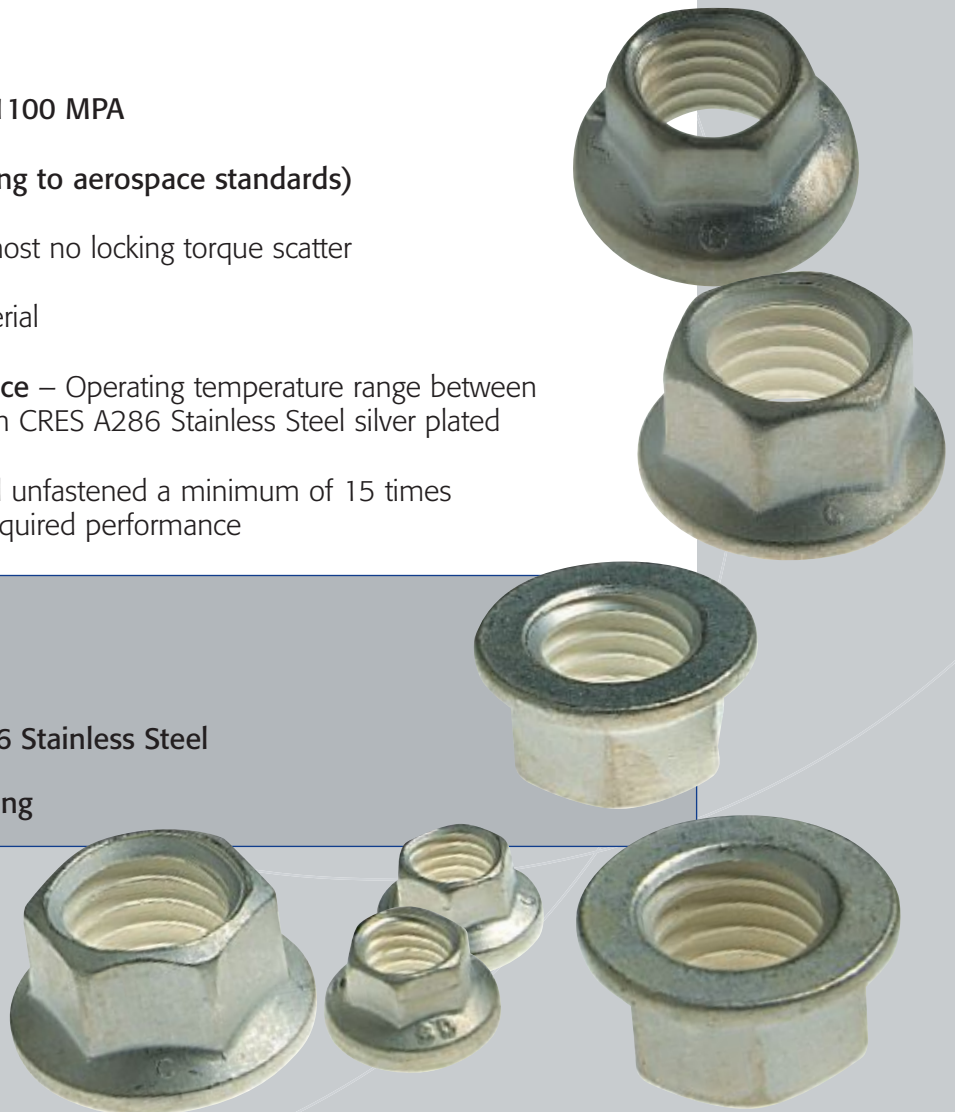
# Lightweight, self-locking and extremely strong

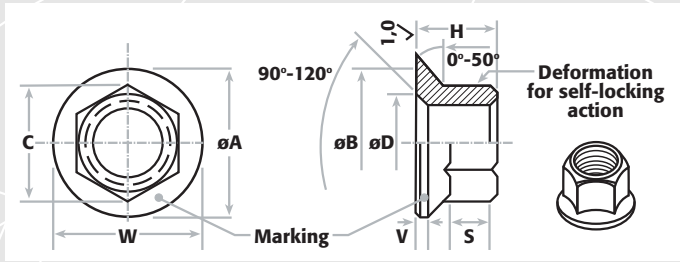
Small, thinwall, lightweight, self-locking and extremely strong. An Aerospace quality nut which is useful when space and weight are at a premium.

### Benefits

- **Lightweight** - Thin walled nut, takes less space
- **Very high resistance to loosening**
- **Very high mechanical resistance 1100 MPA**
- **Very high locking torque (according to aerospace standards)**
- **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

<b>Popular Applications:</b>	Engine
<b>Diameters:</b>	M3-M12
<b>Materials:</b>	CRES A286 Stainless Steel
<b>Standard Coating:</b>	Silver plating





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

All dimensions are in mm unless stated.

Simmonds Part Number	Thread	A max.	B min.	C min.	D		H max.	S min.	V min.	W	Mass Weight Kg 100pcs Approx
					max.	min.					
3050 PH 105	MJ3 x 0,5 - 4H6H	6	5,3	4,2	3,8	3,2	3	1,2	0,4	4	0,028
4070 PH 105	MJ4 x 0,7 - 4H6H	7,4	6,7	5,3	4,8	4,2	4	1,5	0,5	5	0,050
5080 PH 105	MJ5 x 0,8 - 4H6H	9,1	8,3	6,5	5,8	5,2	5	2	0,6	6	0,080
6100 PH 105	MJ6 x 1,0 - 4H5H	10,6	9,8	7,6	7,1	6,3	5,4	2,3	0,7	7	0,115
7100 PH 105	MJ7 x 1,0 - 4H5H	12,1	11,3	8,7	8,1	7,3	6,3	2,7	0,8	8	0,170
8100 PH 105	MJ8 x 1,0 - 4H5H	13,6	12,8	10,9	9,1	8,3	7,2	3,2	0,9	10	0,315
10125 PH 105	MJ10 x 1,25 - 4H5H	16,8	15,8	13,2	11,1	10,3	9	3,8	1,1	12	0,475
12125 PH 105	MJ12 x 1,25 - 4H5H	19,9	18,8	15,5	13,1	12,3	10,8	4,5	1,4	14	1,00

**Material:**

Corrosion resistant steel Z6NCT25 in accordance with TR 3791, heat treated for 27 – 37HRC.

**Surface Treatment:**

Silver plated 5 µm minimum in accordance with EN 2786.

**Classification:**

1100 MPa (at ambient temperature) /425°C.

**Thread:**

MJ in accordance with ISO 5855-2.

**Tolerances of Form and Position:**

In accordance with ISO 8788.

**Marking:**

Ø 3 and 4 mm: MJ-SD in accordance with EN 2424-Category N, +letter C on the area indicated on the drawing.  
Ø ≥ 5 mm: EN 3196-SD in accordance with EN 2424-Category C, + letter C on the area indicated on the drawing.

**Qualification & Acceptance Conditions:** EN 3152.

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