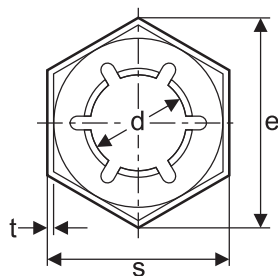


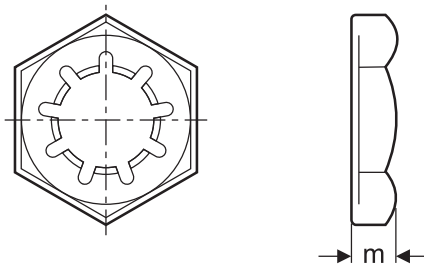
# Self Locking Counter Nuts

## DIN 7967 Pal Nuts

For metric thread Series 1  
(6 locking teeth)



For metric fine thread  
Series 2 and 3  
(9 locking teeth)



### DIN 7967 Dimensions of Self Locking Counter Nuts

| For thread size |            |            | For thread d |          |          | e    | m    | s    | For thread t |          |          | u    | v    | Weight (7.85kg/dm <sup>3</sup> )<br>kg/1000 pieces |          |          |
|-----------------|------------|------------|--------------|----------|----------|------|------|------|--------------|----------|----------|------|------|--|----------|----------|
| Series 1        | Series 2   | Series 3   | Series 1     | Series 2 | Series 3 |      |      |      | Series 1     | Series 2 | Series 3 |      |      | Series 1   | Series 2 | Series 3 |
| M4              | -          | -          | 3.5          | -        | -        | 8.1  | 2.5  | 7.0  | 0.3          | -        | -        | 2.5  | 5.7  | 0.17   | -        | -        |
| M5              | -          | -          | 4.5          | -        | -        | 9.2  | 2.5  | 8.0  | 0.4          | -        | -        | 2.5  | 6.5  | 0.28   | -        | -        |
| M6              | -          | -          | 5.3          | -        | -        | 11.5 | 3.0  | 10.0 | 0.4          | -        | -        | 3.0  | 8.0  | 0.40   | -        | -        |
| M8              | M8 x 1     | -          | 6.9          | 7.1      | -        | 15.0 | 3.5  | 13.0 | 0.5          | 0.4      | -        | 3.5  | 10.0 | 0.90   | 0.70     | -        |
| M10             | M10 x 1.25 | M10 x 1    | 8.6          | 9.0      | 9.3      | 19.6 | 4.0  | 17.0 | 0.5          | 0.5      | 0.5      | 4.0  | 12.0 | 1.40   | 1.40     | 1.40     |
| M12             | M12 x 1.5  | M12 x 1.25 | 10.4         | 10.7     | 11.0     | 21.9 | 4.5  | 19.0 | 0.6          | 0.6      | 0.6      | 4.5  | 14.5 | 1.90   | 1.90     | 1.90     |
| M14             | M14 x 1.5  | -          | 12.0         | 12.70    | -        | 25.4 | 5.0  | 22.0 | 0.6          | 0.6      | -        | 5.0  | 16.0 | 2.50   | 2.50     | -        |
| M16             | M16 x 1.5  | -          | 14.1         | 14.8     | -        | 27.7 | 5.0  | 24.0 | 0.7          | 0.7      | -        | 5.0  | 18.0 | 3.40   | 3.40     | -        |
| M18             | M18 x 2    | M18 x 1.5  | 15.5         | 16.2     | 16.8     | 31.2 | 5.5  | 27.0 | 0.7          | 0.7      | 0.7      | 5.5  | 20.5 | 4.10   | 4.10     | 4.10     |
| M20             | M20 x 2    | M20 x 1.5  | 17.6         | 18.3     | 18.8     | 34.6 | 6.0  | 30.0 | 0.8          | 0.8      | 0.7      | 6.0  | 22.0 | 5.80   | 5.80     | 5.10     |
| M22             | M22 x 2    | M22 x 1.5  | 19.6         | 20.3     | 20.8     | 36.9 | 6.0  | 32.0 | 0.8          | 0.8      | 0.7      | 6.0  | 24.0 | 6.40   | 6.40     | 5.60     |
| M24             | M24 x 2    | M24 x 1.5  | 21.0         | 22.5     | 22.8     | 41.6 | 7.0  | 36.0 | 0.9          | 0.9      | 0.7      | 7.0  | 26.0 | 9.50   | 9.50     | 7.40     |
| M27             | M27 x 2    | -          | 24.2         | 25.5     | -        | 47.3 | 7.0  | 41.0 | 1.0          | 1.0      | -        | 7.0  | 29.0 | 13.00  | 13.00    | -        |
| M30             | M30 x 2    | -          | 26.6         | 28.5     | -        | 53.1 | 8.0  | 46.0 | 1.1          | 1.0      | -        | 8.0  | 32.0 | 17.50  | 16.00    | -        |
| M33             | M33 x 2    | -          | 29.8         | 31.5     | -        | 57.7 | 8.0  | 50.0 | 1.2          | 1.0      | -        | 8.0  | 34.0 | 22.00  | 18.50    | -        |
| M36             | M36 x 3    | -          | 32.2         | 33.6     | -        | 63.5 | 9.0  | 55.0 | 1.3          | 1.3      | -        | 9.0  | 38.0 | 29.00  | 29.00    | -        |
| M39             | M39 x 3    | -          | 35.2         | 36.6     | -        | 69.3 | 9.0  | 60.0 | 1.3          | 1.3      | -        | 9.0  | 40.0 | 32.00  | 32.00    | -        |
| M42             | M42 x 3    | -          | 37.6         | 39.8     | -        | 75.0 | 11.0 | 65.0 | 1.4          | 1.4      | -        | 11.0 | 45.0 | 45.00  | 45.00    | -        |
| M45             | M45 x 3    | -          | 40.9         | 42.8     | -        | 80.8 | 12.0 | 70.0 | 1.5          | 1.5      | -        | 12.0 | 48.0 | 64.00  | 64.00    | -        |
| M48             | M48 x 3    | -          | 43.9         | 45.8     | -        | 86.5 | 14.0 | 75.0 | 1.6          | 1.5      | -        | 14.0 | 52.0 | 80.00  | 75.00    | -        |
| M52             | M52 x 3    | -          | 48.2         | 49.8     | -        | 92.4 | 16.0 | 80.0 | 1.7          | 1.5      | -        | 16.0 | 58.0 | 95.00  | 80.00    | -        |

# Self Locking Counter Nuts

## DIN 7967 PaI Nuts

### Specification for nuts and reference standards

|                    |  |
|--------------------|--|
| Material           | Spring steel according to DIN 17222 (Preliminary Standard)   |
| Finish             | Hardened to HV - 350 to 425 kp/mm <sup>2</sup>   |
| Surface protection | Galvanised, Electro-zincplated, Cadmium-plated, Copper plated, Lead-coated.  |
|                    | DIN 267 Part 9 shall apply with regard to electroplating.  |
|                    | When the self locking counter nuts have electrolytically deposited surface protection it is essential that suitable treatment methods be adopted in order to prevent hydrogen embrittlement. |