

19  
ΕΚΔΟΣΗ 1 ISSUE

## Βίδα | Fasteners



**K. Theodosiadis sa**

INOX FASTENERS • BOLTS - NUTS & NAUTICAL ACCESSORIES

*All the stainless you need!*

# Βίδα Fasteners



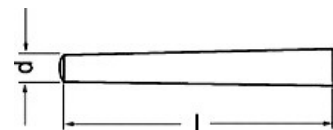
*All the stainless you need!*

**DIN 1**

**A1**



**Πύρος κωνικός**  
Taper pin



| d | 1    | 1,5  | 2     | 3     | 4     | 5     | 6     | 8      | 10     |
|---|------|------|-------|-------|-------|-------|-------|--------|--------|
| l | 8-18 | 8-20 | 10-36 | 12-60 | 12-50 | 16-60 | 20-70 | 28-100 | 32-100 |

**DIN 7**

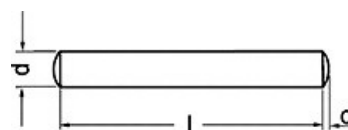
**A1**

**A4**

**ISO 2338**



**Πύρος κυλινδρικός**  
Cylindrical pin (tolerance m 6)



| d | 1    | 1,5  | 2    | 2,5  | 3    | 4    | 5    | 6     |
|---|------|------|------|------|------|------|------|-------|
| c | 0,15 | 0,23 | 0,3  | 0,4  | 0,45 | 0,6  | 0,75 | 0,9   |
| l | 3-20 | 3-20 | 4-32 | 4-24 | 4-50 | 5-60 | 5-60 | 6-100 |

**DIN 84**

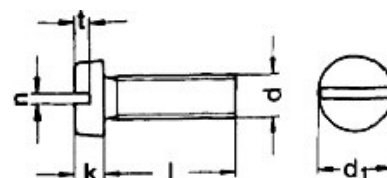
**A2**

**A4**

**ISO 1207**



**Βίδα με κεφάλι τραπεζοειδές, για ίσιο κατσαβίδι**  
Slotted cheese head screw



| d  | M1,6 | M2   | M3   | M4    | M5    | M6    | M8     | M10    |
|----|------|------|------|-------|-------|-------|--------|--------|
| t  | 0,45 | 0,6  | 0,85 | 1,1   | 1,3   | 1,6   | 2      | 2,4    |
| n  | 0,4  | 0,5  | 0,8  | 1,2   | 1,2   | 1,6   | 2      | 2,5    |
| k  | 1    | 1,3  | 2    | 2,6   | 3,3   | 3,9   | 5      | 6      |
| d1 | 3    | 3,8  | 5,5  | 7     | 8,5   | 10    | 13     | 16     |
| l  | 3-16 | 3-30 | 3-60 | 4-100 | 6-100 | 8-100 | 10-100 | 16-100 |

**DIN 85**

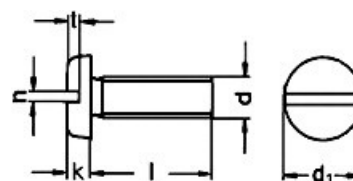
**A2**

**A4**

**ISO 1580**



**Βίδα με μεγάλο τραπεζοειδές κεφάλι, για ίσιο κατσαβίδι**  
Slotted pan head screw

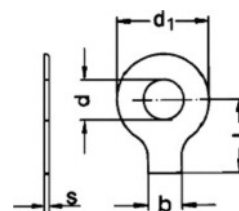


| d  | M2*  | M2,5* | M3   | M4   | M5   | M6   | M8    |
|----|------|-------|------|------|------|------|-------|
| t  | 0,5  | 0,6   | 0,7  | 1    | 1,2  | 1,4  | 1,9   |
| n  | -    | -     | 0,8  | 1,2  | 1,2  | 1,6  | 2     |
| k  | 1,3  | 1,5   | 1,8  | 2,4  | 3    | 3,6  | 4,8   |
| d1 | -    | -     | 6    | 8    | 10   | 12   | 16    |
| l  | 4-20 | 4-20  | 3-50 | 5-50 | 6-70 | 8-70 | 10-50 |

\*Diameter M2 and M2,5  
not normed: similar to DIN 85

**DIN 93****A2****A4**

**Ροδέλα άξονα με 1 σκέλος**  
 Tab washer with long tab



| d              | 3,2  | 4,3  | 5,3 | 6,4 | 8,4  | 10,5 | 13  | 15  | 17  |
|----------------|------|------|-----|-----|------|------|-----|-----|-----|
| for screws     | M3   | M4   | M5  | M6  | M8   | M10  | M12 | M14 | M16 |
| d <sub>1</sub> | 12   | 14   | 17  | 19  | 22   | 26   | 30  | 33  | 36  |
| b              | 4    | 5    | 6   | 7   | 8    | 10   | 12  | 12  | 15  |
| s              | 0,38 | 0,38 | 0,5 | 0,5 | 0,75 | 0,75 | 1   | 1   | 1   |
| l              | 13   | 14   | 16  | 18  | 20   | 22   | 28  | 28  | 32  |

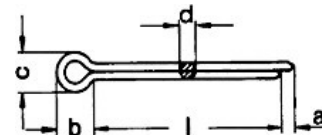
| d              | 19  | 21  | 23  | 25  | 28  | 31  | 34  | 37  | 40  |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| for screws     | M18 | M20 | M22 | M24 | M27 | M30 | M33 | M36 | M39 |
| d <sub>1</sub> | 40  | 42  | 50  | 50  | 58  | 63  | 68  | 75  | 82  |
| b              | 18  | 18  | 20  | 20  | 23  | 26  | 28  | 30  | 32  |
| s              | 1   | 1   | 1   | 1,6 | 1,6 | 1,6 | 1,6 | 1,6 | 1,6 |
| l              | 36  | 36  | 42  | 42  | 48  | 52  | 56  | 60  | 64  |

**DIN 94****A2****A4**

ISO 1234



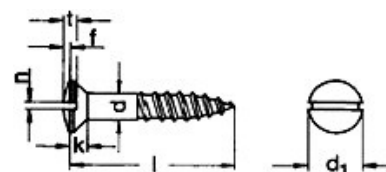
**Κοπίλια**  
 Split pin



| d      | 1,0  | 1,2  | 1,6  | 2    | 2,5   | 3,2   | 4      | 5      | 6,3    | 8      | 10     |
|--------|------|------|------|------|-------|-------|--------|--------|--------|--------|--------|
| a max. | 1,6  | 2,5  | 2,5  | 2,5  | 2,5   | 3,2   | 4      | 4      | 4      | 4      | 6,3    |
| b ~    | 3    | 3    | 3,2  | 4    | 5     | 6,4   | 8      | 10     | 12,6   | 16     | 20     |
| c min. | 1,6  | 1,7  | 2,4  | 3,2  | 4     | 5,1   | 6,5    | 8      | 10,3   | 13,1   | 16,6   |
| c max. | 1,8  | 2    | 2,8  | 3,6  | 4,6   | 5,8   | 7,4    | 9,2    | 11,8   | 15     | 19     |
| l      | 8-45 | 8-45 | 8-45 | 8-50 | 10-50 | 16-63 | 16-100 | 16-100 | 20-100 | 32-100 | 32-100 |

**DIN 95****A2****A4**

**Ξυλόβιδα με κεφάλι φακή, για ίσιο καταβίδι**  
 Wood screw, raised countersunk head, slotted



| d              | 3     | 3,5   | 4     | 4,5   | 5      | 5,5    | 6      |
|----------------|-------|-------|-------|-------|--------|--------|--------|
| t max.         | 1,45  | 1,7   | 1,9   | 2,1   | 2,3    | 2,5    | 2,8    |
| n              | 0,8   | 0,8   | 1     | 1     | 1,2    | 1,2    | 1,6    |
| f ~            | 0,75  | 0,9   | 1     | 1,1   | 1,2    | 1,4    | 1,5    |
| k              | 1,65  | 1,93  | 2,2   | 2,35  | 2,5    | 2,75   | 3      |
| d <sub>1</sub> | 5,6   | 6,5   | 7,5   | 8,3   | 9,2    | 10,2   | 11     |
| l              | 10-40 | 12-50 | 12-60 | 16-70 | 16-100 | 25-100 | 25-100 |

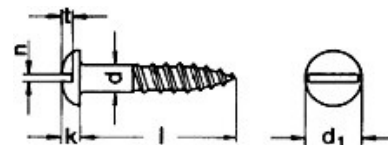
**DIN 96**

**A2**

**A4**



Ξυλόβιδα με στρογγυλό κεφάλι, για ίσιο καταβίδι  
Wood screw, round head, slotted



| d      | 3     | 3,5   | 4     | 4,5   | 5      | 5,5    | 6      |
|--------|-------|-------|-------|-------|--------|--------|--------|
| t max. | 1,35  | 1,6   | 1,8   | 2     | 2,3    | 2,5    | 2,7    |
| n      | 0,8   | 0,8   | 1     | 1     | 1,2    | 1,2    | 1,6    |
| k      | 2,1   | 2,4   | 2,8   | 3,1   | 3,5    | 3,8    | 4,2    |
| d1     | 6     | 7     | 8     | 9     | 10     | 11     | 12     |
| l      | 10-40 | 12-50 | 12-70 | 16-70 | 16-100 | 25-100 | 20-120 |

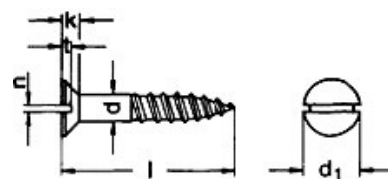
**DIN 97**

**A2**

**A4**



Ξυλόβιδα με φρεζάτο κεφάλι, για ίσιο καταβίδι  
Wood screw, countersunk head, slotted



| d      | 3     | 3,5   | 4     | 4,5   | 5      | 5,5    | 6      | 8      |
|--------|-------|-------|-------|-------|--------|--------|--------|--------|
| t max. | 0,85  | 1     | 1,1   | 1,2   | 1,3    | 1,4    | 1,6    | 2,1    |
| n      | 0,8   | 0,8   | 1     | 1     | 1,2    | 1,2    | 1,6    | 2      |
| k      | 1,65  | 1,93  | 2,2   | 2,35  | 2,5    | 2,75   | 3      | 4      |
| d1     | 5,6   | 6,5   | 7,5   | 8,3   | 9,2    | 10,2   | 11     | 14,5   |
| l      | 10-40 | 12-50 | 12-60 | 16-70 | 20-100 | 25-100 | 20-120 | 30-120 |

**DIN 125**

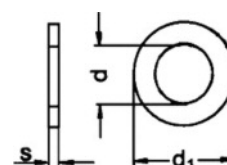
**A2**

**A4**

ISO 7089



Ροδέλα (τύπος A)  
Plain washer, type A (without chamfer)



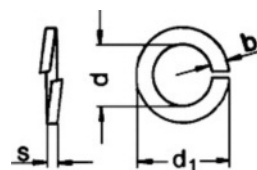
| d          | 2,2 | 3,2 | 4,3 | 5,3 | 6,4 | 8,4 | 10,5 | 13  | 15  | 17  | 19  | 21  |
|------------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|
| for screws | M2  | M3  | M4  | M5  | M6  | M8  | M10  | M12 | M14 | M16 | M17 | M20 |
| d1         | 4,5 | 7   | 9   | 10  | 12  | 16  | 20   | 24  | 28  | 30  | 34  | 37  |
| s          | 0,3 | 0,5 | 0,8 | 1   | 1,6 | 1,6 | 2    | 2,5 | 2,5 | 3   | 3   | 3   |

| d          | 23  | 25  | 28  | 31  | 34  | 37  | 40  | 43  | 46  | 50  | 54  |  |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| for screws | M22 | M24 | M27 | M30 | M33 | M36 | M39 | M42 | M45 | M48 | M52 |  |
| d1         | 39  | 44  | 50  | 56  | 60  | 66  | 72  | 78  | 85  | 92  | 98  |  |
| s          | 3   | 4   | 4   | 4   | 5   | 5   | 6   | 7   | 7   | 8   | 8   |  |

**DIN 127****A2****A4**

**Γκρόβερ (τύπος Β)**  
 Spring lock washer (type B), plain pattern



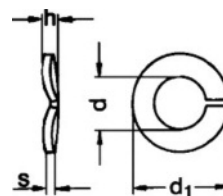
| d              | 2,1 | 2,4  | 2,6  | 2,7  | 3,1 | 4,1 | 5,1 | 6,1  | 8,1  | 10,2 | 12,2 |
|----------------|-----|------|------|------|-----|-----|-----|------|------|------|------|
| for screws     | M2  | M2,3 | M2,5 | M2,6 | M3  | M4  | M5  | M6   | M8   | M10  | M12  |
| d <sub>1</sub> | 4,4 | 4,9  | 5,1  | 5,2  | 6,2 | 7,6 | 9,2 | 11,8 | 14,8 | 18,1 | 21,1 |
| b              | 0,9 | 1    | 1    | 1    | 1,3 | 1,5 | 1,8 | 2,5  | 3    | 3,5  | 4    |
| s              | 0,5 | 0,6  | 0,6  | 0,6  | 0,8 | 0,9 | 1,2 | 1,6  | 2    | 2,2  | 2,5  |

| d              | 14,2 | 16,2 | 18,2 | 20,2 | 22,5 | 24,4 | 27,5 | 30,5 | 33,5 | 36,5 |  |
|----------------|------|------|------|------|------|------|------|------|------|------|--|
| for screws     | M14  | M16  | M18  | M20  | M22  | M24  | M27  | M30  | M33  | M36  |  |
| d <sub>1</sub> | 24,1 | 27,4 | 29,4 | 33,6 | 35,9 | 40   | 42   | 48,2 | 55,2 | 58,2 |  |
| b              | 4,5  | 5    | 5    | 6    | 6    | 7    | 7    | 8    | 10   | 10   |  |
| s              | 2,5  | 3,5  | 3,5  | 4    | 4    | 5    | 5    | 6    | 6    | 6    |  |

**DIN 128****A2****A4**

**Γκρόβερ (τύπος Α)**  
 Spring lock washer (type A), curved



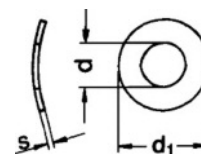
| d              | 2,1 | 2,4  | 2,6  | 2,7  | 3,1 | 5,1 | 6,1  | 8,2  | 10,2 |
|----------------|-----|------|------|------|-----|-----|------|------|------|
| for screws     | M2  | M2,3 | M2,5 | M2,6 | M3  | M5  | M6   | M8   | M10  |
| d <sub>1</sub> | 4,4 | 4,9  | 5,1  | 5,2  | 6,2 | 9,2 | 11,8 | 14,8 | 18,1 |
| s              | 0,5 | 0,6  | 0,6  | 0,6  | 0,7 | 1   | 1,3  | 1,6  | 1,8  |
| h min.         | 0,7 | 0,9  | 0,9  | 0,9  | 1,1 | 1,5 | 2    | 2,45 | 2,85 |
| h max.         | 0,9 | 1,1  | 1,1  | 1,1  | 1,3 | 1,7 | 2,2  | 2,75 | 3,15 |

| d              | 12,2 | 14,2 | 16,2 | 18,2 | 20,2 | 22,5 | 24,5 | 27,5 |  |
|----------------|------|------|------|------|------|------|------|------|--|
| for screws     | M12  | M14  | M16  | M18  | M20  | M22  | M24  | M27  |  |
| d <sub>1</sub> | 21,1 | 24,1 | 27,4 | 29,4 | 33,6 | 35,9 | 40   | 43   |  |
| s              | 2,1  | 2,4  | 2,8  | 2,8  | 3,2  | 3,2  | 4    | 4    |  |
| h min.         | 3,35 | 3,9  | 4,5  | 4,5  | 5,1  | 5,1  | 6,5  | 6,5  |  |
| h max.         | 3,65 | 4,3  | 5,1  | 5,1  | 5,9  | 5,9  | 7,5  | 7,5  |  |

**DIN 137 A****A2****A4**

**Ροδέλα ελατηριωτή (τύπος Α)**  
 Wave spring washer (type A), curved



| d              | 2,2 | 2,5  | 2,6  | 2,8  | 3,2 | 3,7  | 4,3 | 5,3 | 6,4 | 7,4 | 8,4 | 10,5 |
|----------------|-----|------|------|------|-----|------|-----|-----|-----|-----|-----|------|
| for screws     | M2  | M2,3 | M2,5 | M2,6 | M3  | M3,5 | M4  | M5  | M6  | M7  | M8  | M10  |
| d <sub>1</sub> | 4,5 | 4,5  | 5,5  | 5,5  | 6   | 7    | 8   | 10  | 11  | 12  | 15  | 18   |
| s              | 0,3 | 0,3  | 0,3  | 0,3  | 0,4 | 0,4  | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,8  |

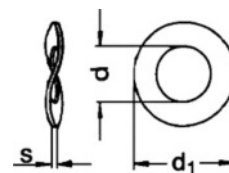
**DIN 137 B**

**A2**

**A4**



**Ροδέλα κυματοειδής (τύπος Β)**  
Wave spring washer (type B), crinkled



| d              | 3,2 | 3,7  | 4,3 | 5,3 | 6,4 | 7,4 | 8,4 | 10,5 | 13  | 15  | 17  | 19  | 21  | 23  | 25   |
|----------------|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|------|
| for screws     | M3  | M3,5 | M4  | M5  | M6  | M7  | M8  | M10  | M12 | M14 | M16 | M18 | M20 | M22 | M24  |
| d <sub>1</sub> | 8   | 8    | 9   | 11  | 12  | 14  | 15  | 21   | 24  | 28  | 30  | 34  | 36  | 40  | 44   |
| s              | 0,5 | 0,5  | 0,5 | 0,5 | 0,5 | 0,8 | 0,8 | 1    | 1,2 | 1,6 | 1,6 | 1,6 | 1,6 | 1,8 | 1,87 |

**DIN 315**

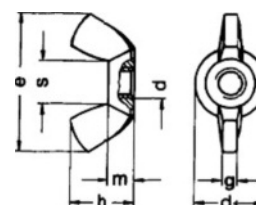
**A2**

**A4**

Metric / UNC



**Πεταλούδα**  
Wing nut



| UNC            |     |     | 3/16" | 1/4" | 5/16" | 3/8" | 1/2" |     |     | 5/8" | 3/4" |
|----------------|-----|-----|-------|------|-------|------|------|-----|-----|------|------|
| d              | M3  | M4  | M5    | M6   | M8    | M10  | M12  | M14 | M16 | M18  | M20  |
| d <sub>1</sub> | 6   | 6   | 8     | 10   | 13    | 17   | 20   | 26  | 26  | 28   | 32   |
| e              | 15  | 18  | 24    | 30   | 36    | 48   | 62   | 52  | 70  | 80   | 86   |
| g              | 1,2 | 1,7 | 2,3   | 2,7  | 3,6   | 4,6  | 5,6  | 6   | 6,5 | 6,8  | 7    |
| h              | 8   | 8,5 | 11    | 15   | 18    | 23   | 31   | 30  | 35  | 40   | 44   |
| m min.         | 2,4 | 3,2 | 4     | 5    | 6,5   | 8    | 10   | 10  | 13  | 15   | 16   |

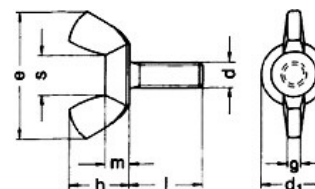
**DIN 316**

**A2**

**A4**



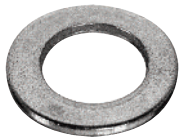
**Βίδα με κεφάλι πεταλούδα**  
Wing screw



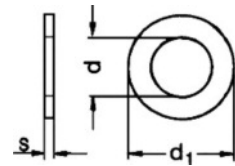
| d              | M3    | M4    | M5    | M6    | M8    | M10   | M12   |
|----------------|-------|-------|-------|-------|-------|-------|-------|
| m              | 2,4   | 2,9   | 4,1   | 5,1   | 5,6   | 6,8   | 9     |
| h              | 7,2   | 8,6   | 11    | 13,6  | 14,8  | 17,7  | 24,1  |
| g              | 1,2   | 1,6   | 2,1   | 2,5   | 2,8   | 3,3   | 4,5   |
| e              | 15,3  | 17,6  | 22,5  | 27,8  | 30,3  | 36,2  | 49,4  |
| s              | 4,5   | 5,2   | 6,7   | 8,4   | 9,1   | 11    | 15    |
| d <sub>1</sub> | 6,8   | 8     | 10,3  | 12,7  | 13,8  | 16,5  | 22,5  |
| l              | 10-30 | 10-40 | 10-50 | 10-50 | 16-60 | 16-60 | 20-60 |

**DIN 433****A2****A4**

ISO 7092



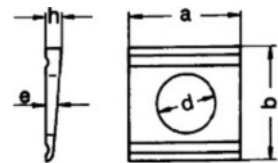
**Ροδέλα στενή (για βίδα άλεν)**  
 Washer for hexagon socket head cap screw



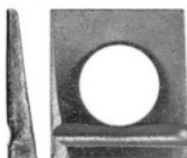
| d              | 3,2 | 3,7  | 4,3 | 5,3 | 6,4 | 8,4 | 10,5 | 13  | 15  | 17  | 19  | 21  |
|----------------|-----|------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|
| for screws     | M3  | M3,5 | M4  | M5  | M6  | M8  | M10  | M12 | M14 | M16 | M18 | M20 |
| d <sub>1</sub> | 6   | 7    | 8   | 9   | 11  | 15  | 18   | 20  | 24  | 28  | 30  | 34  |
| s              | 0,5 | 0,5  | 0,5 | 1   | 1,6 | 1,6 | 1,6  | 2   | 2,5 | 2,5 | 2,5 | 3   |

**DIN 434****A2****A4**

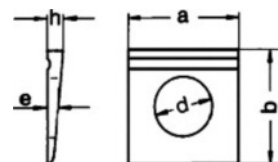
**Τετράγωνο πέλμα**  
 Square taper washer for U-sections



| d          | 9   | 11  | 13,5 | 17,5 | 22   | 24   | 26   |
|------------|-----|-----|------|------|------|------|------|
| for screws | M8  | M10 | M12  | M16  | M20  | M22  | M24  |
| a          | 22  | 22  | 26   | 32   | 40   | 44   | 56   |
| b          | 22  | 22  | 30   | 36   | 44   | 50   | 56   |
| e          | 2,9 | 2,9 | 3,7  | 4,45 | 5,25 | 6,06 | 6,26 |
| h          | 3,8 | 3,8 | 4,9  | 5,9  | 7    | 8    | 8,5  |

**DIN 435****A2****A4**

**Τετράγωνο πέλμα**  
 Square taper washer for I-sections

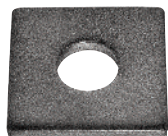


| d          | 9    | 11   | 13,5 | 17,5 | 22  | 26   |
|------------|------|------|------|------|-----|------|
| for screws | M8   | M10  | M12  | M16  | M20 | M24  |
| a          | 22   | 22   | 26   | 32   | 40  | 56   |
| b          | 22   | 22   | 30   | 36   | 44  | 56   |
| e          | 3,05 | 3,05 | 4,1  | 5    | 6,1 | 6,9  |
| h          | 4,6  | 4,6  | 6,2  | 7,5  | 9,2 | 10,8 |

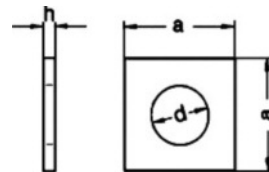
**DIN 436**

**A2**

**A4**



**Ροδέλα τετράγωνη**  
Square washer for wood construction



| d          | 11  | 13,5 | 17,5 | 22  | 24  | 26  |
|------------|-----|------|------|-----|-----|-----|
| for screws | M10 | M12  | M16  | M20 | M22 | M24 |
| a          | 30  | 40   | 50   | 60  | 70  | 80  |
| h          | 3   | 4    | 5    | 5   | 6   | 6   |

**DIN 439**

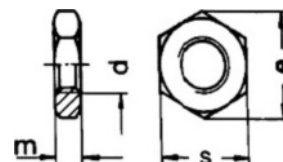
**A2**

**A4**

ISO 4035



**Παξιμάδι λεπτό**  
Hexagon thin nut (with chamfer)



| d | M2   | M2,5 | M3   | M4   | M5   | M6    | M8    | M10  | M12  | M14   | M16   |
|---|------|------|------|------|------|-------|-------|------|------|-------|-------|
| s | 4    | 5    | 5,5  | 7    | 8    | 10    | 13    | 17   | 19   | 22    | 24    |
| e | 4,32 | 5,45 | 6,01 | 7,66 | 8,79 | 11,05 | 14,38 | 18,9 | 21,1 | 24,49 | 26,75 |
| m | 1,2  | 1,6  | 1,8  | 2,2  | 2,7  | 3,2   | 4     | 5    | 6    | 7     | 8     |

| d | M18   | M20   | M22   | M24   | M27   | M30   | M33   | M36   | M39   | M42  | M45   |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| s | 27    | 30    | 32    | 36    | 41    | 46    | 50    | 55    | 60    | 65   | 70    |
| e | 29,56 | 32,95 | 35,03 | 39,55 | 45,20 | 50,85 | 55,37 | 60,79 | 66,44 | 71,3 | 76,95 |
| m | 9     | 10    | 11    | 12    | 13,5  | 15    | 16,5  | 18    | 19,5  | 21   | 22,5  |

**DIN 440 R**

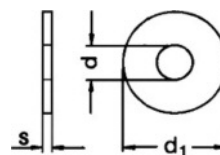
**A2**

**A4**

ISO 7094



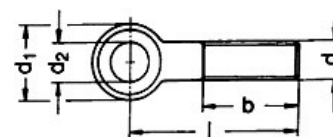
**Ροδέλα (τύπος R)**  
Washer for wood construction (type R), round hole



| d              | 5,5 | 6,6 | 9  | 11  | 13,5 | 17,5 | 22  | 24  | 26  |
|----------------|-----|-----|----|-----|------|------|-----|-----|-----|
| for screws     | M5  | M6  | M8 | M10 | M12  | M16  | M20 | M22 | M24 |
| d <sub>1</sub> | 18  | 22  | 28 | 34  | 44   | 56   | 72  | 80  | 85  |
| s              | 2   | 2   | 3  | 3   | 4    | 5    | 6   | 6   | 6   |

**DIN 444****A2****A4**

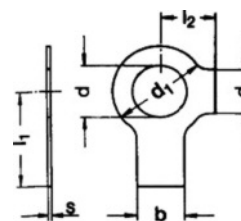
**Βίδα με κεφάλι μάτι**  
 Eye bolt, (type B), medium coarse



| d              | M6    | M8     | M10    | M12    | M16    | M20    | M24    |
|----------------|-------|--------|--------|--------|--------|--------|--------|
| b ≤ 125        | 18    | 22     | 26     | 30     | 38     | 46     | 54     |
| b ≤ 200        | -     | 28     | 32     | 36     | 44     | 52     | 60     |
| b > 200        | -     | -      | -      | 49     | 57     | 65     | 73     |
| d <sub>2</sub> | 6     | 8      | 10     | 12     | 16     | 18     | 22     |
| d <sub>1</sub> | 14    | 18     | 20     | 25     | 32     | 40     | 45     |
| l              | 30-70 | 30-100 | 40-120 | 50-180 | 60-180 | 70-200 | 80-200 |

**DIN 463****A2****A4**

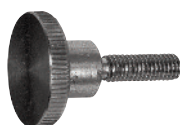
**Ροδέλα άξονα με 2 σκέλη**  
 Tab washer with 2 tabs



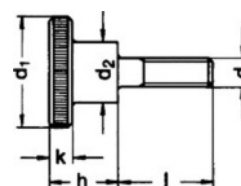
| d              | 4,3 | 5,3 | 6,4  | 8,4  | 10,5 | 13  | 15  | 17  | 19  |
|----------------|-----|-----|------|------|------|-----|-----|-----|-----|
| for screws     | M4  | M5  | M6   | M8   | 10   | M12 | M14 | M16 | M18 |
| d <sub>1</sub> | 9   | 10  | 12,5 | 17   | 21   | 24  | 28  | 30  | 34  |
| l <sub>1</sub> | 14  | 16  | 18   | 20   | 22   | 28  | 28  | 32  | 36  |
| l <sub>2</sub> | 6,5 | 8   | 9    | 11   | 13   | 15  | 16  | 18  | 20  |
| b              | 5   | 6   | 7    | 8    | 10   | 12  | 12  | 15  | 18  |
| s              | 0,4 | 0,5 | 0,5  | 0,75 | 0,75 | 1   | 1   | 1   | 1   |

| d              | 21  | 23  | 25  | 28  | 31  | 34  | 37  | 40  |  |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|--|
| for screws     | M20 | M22 | M24 | M27 | M30 | M33 | M36 | M39 |  |
| d <sub>1</sub> | 37  | 39  | 44  | 50  | 56  | 60  | 66  | 72  |  |
| l <sub>1</sub> | 36  | 42  | 42  | 48  | 52  | 56  | 60  | 64  |  |
| l <sub>2</sub> | 21  | 23  | 25  | 29  | 32  | 34  | 38  | 41  |  |
| b              | 18  | 20  | 20  | 23  | 26  | 28  | 30  | 32  |  |
| s              | 1   | 1   | 1   | 1,6 | 1,6 | 1,6 | 1,6 | 1,6 |  |

**DIN 464****A2****A4**

**Βίδα με κεφάλι knob**  
 Knurled thumb screw (high type)



| d                   | M3   | M4   | M5   | M6    |
|---------------------|------|------|------|-------|
| k max.              | 2,5  | 3,5  | 4    | 5     |
| h                   | 7,5  | 9,5  | 11,5 | 15    |
| d <sub>2</sub> max. | 6    | 8    | 10   | 12    |
| d <sub>1</sub>      | 12   | 16   | 20   | 24    |
| l                   | 4-20 | 5-25 | 6-30 | 10-40 |

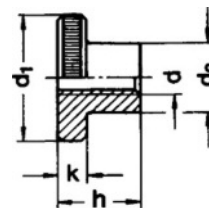
**DIN 466**

**A2**

**A4**



**Παξιμάδι με κεφάλι knob**  
Knurled thumb nut (high type)



| d                   | M2  | M2,5 | M3  | M4  | M5   | M6 | M8 | M10 |
|---------------------|-----|------|-----|-----|------|----|----|-----|
| d <sub>1</sub>      | 9   | 11   | 12  | 16  | 20   | 24 | 30 | 36  |
| d <sub>2</sub> max. | 4,5 | 5    | 6   | 8   | 10   | 12 | 16 | 20  |
| h max.              | 5,3 | 6,5  | 7,5 | 9,5 | 11,5 | 15 | 18 | 23  |
| k max.              | 2   | 2,5  | 2,5 | 3,5 | 4    | 5  | 6  | 8   |

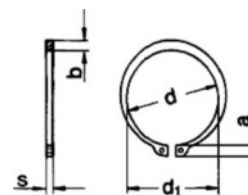
**DIN 471**

**A2**

**A4**



**Ασφάλεια άξονα**  
Retaining ring for shafts



|   |   |    |    |    |    |    |    |    |     |
|---|---|----|----|----|----|----|----|----|-----|
| d | 4 | 10 | 16 | 23 | 29 | 37 | 48 | 65 | 95  |
|   | 5 | 11 | 17 | 24 | 30 | 38 | 50 | 70 | 100 |
|   | 6 | 12 | 18 | 25 | 32 | 40 | 52 | 75 | 105 |
|   | 7 | 13 | 19 | 26 | 34 | 42 | 55 | 80 | 110 |
|   | 8 | 14 | 20 | 27 | 35 | 45 | 60 | 85 | 120 |
|   | 9 | 15 | 22 | 28 | 36 | 47 | 62 | 90 |     |

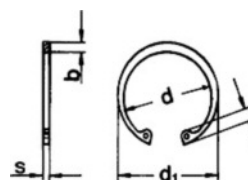
**DIN 472**

**A2**

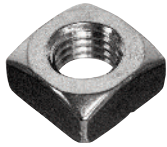
**A4**



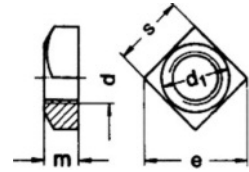
**Ασφάλεια οπής**  
Retaining ring for bores



|   |    |    |    |    |    |    |    |    |    |     |     |
|---|----|----|----|----|----|----|----|----|----|-----|-----|
| d | 8  | 14 | 20 | 26 | 32 | 38 | 44 | 55 | 70 | 95  | 125 |
|   | 9  | 15 | 21 | 27 | 33 | 39 | 45 | 58 | 72 | 100 | 130 |
|   | 10 | 16 | 22 | 28 | 34 | 40 | 47 | 60 | 75 | 105 | 135 |
|   | 11 | 17 | 23 | 29 | 35 | 41 | 48 | 62 | 80 | 110 | 140 |
|   | 12 | 18 | 24 | 30 | 36 | 42 | 50 | 65 | 85 | 115 |     |
|   | 13 | 19 | 25 | 31 | 37 | 43 | 52 | 68 | 90 | 120 |     |

**DIN 557****A2****A4**

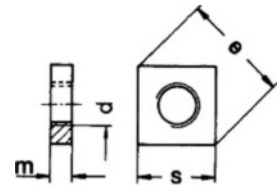
**Παξιμάδι τετράγωνο**  
 Square nut



| d              | M5   | M6   | M8   | M10     | M12     |
|----------------|------|------|------|---------|---------|
| d <sub>1</sub> | 6,7  | 8,7  | 11,5 | 15,5    | 17,2    |
| s              | 8    | 10   | 13   | 16 (17) | 18 (19) |
| e              | 11,3 | 14,1 | 18,4 | 22,6    | 25,4    |
| m              | 4    | 5    | 6,5  | 8       | 10      |

**DIN 562****A2****A4**

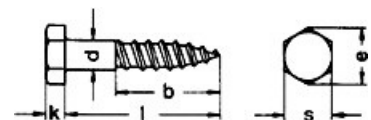
**Παξιμάδι τετράγωνο λεπτό**  
 Square thin nut



| d | M2  | M2,5 | M3  | M4  | M5   | M6   | M8   | M10     |
|---|-----|------|-----|-----|------|------|------|---------|
| s | 4   | 5    | 5,5 | 7   | 8    | 10   | 13   | 16 (17) |
| e | 5   | 6,3  | 7   | 8,9 | 10,2 | 12,7 | 16,5 | 20,2    |
| m | 1,2 | 1,6  | 1,8 | 2,2 | 2,7  | 3,2  | 4    | 5       |

**DIN 571****A2****A4**

**Στριφώνι**  
 Wood screw with hexagon head

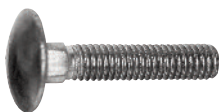


| d | 5                   | 6      | 8      | 10     | 12     | 16     |
|---|---------------------|--------|--------|--------|--------|--------|
| b | $\geq 0,6 \times l$ |        |        |        |        |        |
| k | 3,5                 | 4      | 5,5    | 7      | 8      | 10     |
| e | 8,63                | 10,89  | 14,20  | 18,72  | 20,88  | 26,17  |
| s | 8                   | 10     | 13     | 17     | 119    | 24     |
| l | 25-70               | 25-140 | 25-200 | 40-200 | 50-280 | 70-200 |

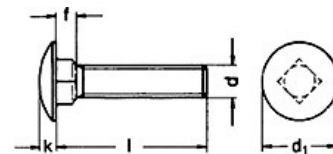
**DIN 603**

**A2**

**A4**



**Καρόβιδα**  
Mushroom head square neck bolt



| d       | M5    | M6     | M8     | M10     | M12    | M16    |
|---------|-------|--------|--------|---------|--------|--------|
| b ≤ 125 | 16    | 18     | 22     | 26      | 30     | 38     |
| b ≤ 200 | 122   | 24     | 28     | 32      | 36     | 44     |
| f max.  | 4,1   | 4,6    | 5,6    | 6,6     | 8,75   | 12,9   |
| k max.  | 3,3   | 3,88   | 4,88   | 5,38    | 6,95   | 8,95   |
| d1 max. | 13,55 | 16,55  | 20,65  | 24,65   | 30,65  | 38,8   |
| l       | 16-80 | 16-120 | 16-200 | 20-2260 | 25-280 | 60-400 |

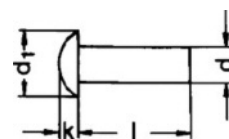
**DIN 660**

**A2**

**A4**



**Πιρτσίνι με στρογγυλό κεφάλι**  
Round head rivet



| d  | 2    | 3    | 4    | 5    | 6     |
|----|------|------|------|------|-------|
| k  | 1,2  | 1,8  | 2,4  | 3    | 3,6   |
| d1 | 3,5  | 5,2  | 7    | 8,8  | 10,5  |
| l  | 6-16 | 6-25 | 6-35 | 8-40 | 12-50 |

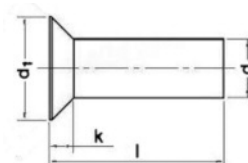
**DIN 661**

**A2**

**A4**



**Πιρτσίνι με φρεζάτο κεφάλι**  
Countersunk head rivet



| d  | 2    | 3    | 4    | 5    | 6     |
|----|------|------|------|------|-------|
| k  | 1    | 1,4  | 2    | 2,5  | 3     |
| d1 | 3,5  | 5,2  | 7    | 8,8  | 10,5  |
| l  | 6-16 | 6-25 | 6-35 | 8-40 | 12-50 |

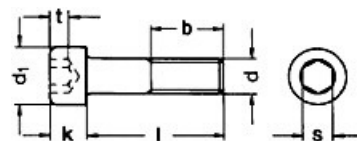
**DIN 912****A2****A4**

ISO 4762

Metric / UNC



**Βίδα άλιν**  
Hexagon socket head cap screw



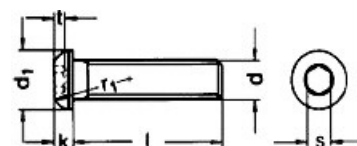
| UNC    |      |      |      |      |      | 3/16" |
|--------|------|------|------|------|------|-------|
| d      | M1,6 | M2   | M2,5 | M3   | M4   | M5    |
| b      | 15   | 16   | 17   | 18   | 20   | 22    |
| t min. | 0,7  | 1    | 1,1  | 1,3  | 2    | 2,5   |
| s      | 1,5  | 1,5  | 2    | 2,5  | 3    | 4     |
| k max. | 1,6  | 2    | 2,5  | 3    | 4    | 5     |
| d1     | 3    | 3,8  | 4,5  | 5,5  | 7    | 8,5   |
| l      | 4-10 | 3-20 | 4-25 | 4-50 | 5-80 | 6-100 |

| UNC    | 1/4"  | 5/16"  | 3/8"   | 1/2" x 12 x 13 |        |        | 5/8"   |
|--------|-------|--------|--------|----------------|--------|--------|--------|
| d      | M6    | M8     | M10    | M12            | M14    | M16    | M16    |
| b      | 24    | 28     | 32     | 36             | 40     | 44     | 44     |
| t min. | 3     | 4      | 5      | 6              | 7      | 8      | 8      |
| s      | 5     | 6      | 8      | 10             | 12     | 14     | 14     |
| k max. | 6     | 8      | 10     | 12             | 14     | 16     | 16     |
| d1     | 10    | 13     | 16     | 18             | 21     | 24     | 24     |
| l      | 6-150 | 10-180 | 12-180 | 16-190         | 20-150 | 20-200 | 20-200 |

| UNC    |        |        |        |        |        |        | 3/4"   |
|--------|--------|--------|--------|--------|--------|--------|--------|
| d      | M18    | M20    | M22    | M24    | M27    | M30    | M30    |
| b      | 48     | 52     | 56     | 60     | 66     | 72     | 72     |
| t min. | 9      | 10     | 11     | 12     | 13,5   | 15,5   | 15,5   |
| s      | 14     | 17     | 17     | 19     | 19     | 22     | 22     |
| k max. | 18     | 20     | 22     | 24     | 27     | 30     | 30     |
| d1     | 27     | 30     | 33     | 36     | 40     | 45     | 45     |
| l      | 40-150 | 30-200 | 40-100 | 40-200 | 50-150 | 50-150 | 50-150 |

**ISO 7380****A2****A4**

**Βίδα άλιν με στρογγυλό κεφάλι**  
Hexagon socket button head screw



| d       | M3   | M4   | M5   | M6   | M8    | M10   |
|---------|------|------|------|------|-------|-------|
| r1      | 3    | 4,1  | 5,2  | 5,6  | 7,5   | 10    |
| t min.  | 1,4  | 1,7  | 2,2  | 2,4  | 3,2   | 3,8   |
| s       | 2    | 2,5  | 3    | 4    | 5     | 6     |
| k max.  | 1,65 | 2,2  | 2,75 | 3,3  | 4,4   | 5,5   |
| d1 max. | 5,7  | 7,6  | 9,5  | 10,5 | 14,1  | 17,5  |
| l       | 6-30 | 6-40 | 6-60 | 6-60 | 10-60 | 16-60 |

**DIN 913**

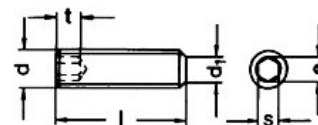
**A2**

**A4**

ISO 4026



**Βίδα άλεν χωρίς κεφάλι (ίσια)**  
Hexagon socket set screw with flat point



| d                   | M1,6 | M2   | M2,5 | M3   | M4   | M5   | M6   | M8    | M10   | M12  | M16    | M20    |
|---------------------|------|------|------|------|------|------|------|-------|-------|------|--------|--------|
| d <sub>1</sub> max. | 0,8  | 1    | 1,5  | 2    | 2,5  | 3,5  | 4    | 5,5   | 7     | 8,5  | 12     | 15     |
| t min.              | 0,7  | 0,8  | 1,2  | 1,2  | 1,5  | 2    | 2    | 3     | 4     | 4,8  | 6,4    | 8      |
| e                   | 0,8  | 1    | 1,43 | 1,73 | 2,3  | 2,87 | 3,44 | 4,58  | 5,72  | 6,86 | 9,15   | 11,43  |
| s                   | 0,7  | 0,9  | 1,3  | 1,5  | 2    | 2,5  | 3    | 4     | 5     | 6    | 8      | 10     |
| l                   | 3-8  | 3-16 | 3-16 | 3-40 | 4-40 | 4-50 | 5-90 | 6-100 | 6-140 | 100  | 16-100 | 20-100 |

**DIN 914**

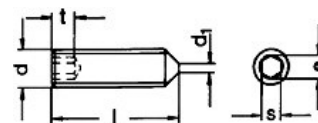
**A2**

**A4**

ISO 4027



**Βίδα άλεν χωρίς κεφάλι (μύτη)**  
Hexagon socket set screw with cone point



| d                   | M2   | M2,5 | M3   | M4   | M5   | M6   | M8   | M10   | M12   | M16    | M20   |
|---------------------|------|------|------|------|------|------|------|-------|-------|--------|-------|
| d <sub>1</sub> max. | -    | -    | -    | -    | -    | 1,5  | 2    | 2,5   | 3     | 4      | 5     |
| t min.              | 0,8  | 1,2  | 1,2  | 1,5  | 2    | 2    | 3    | 4     | 4,5   | 6,4    | 8     |
| e                   | 1    | 1,43 | 1,73 | 2,3  | 2,87 | 3,44 | 4,58 | 5,72  | 6,86  | 9,15   | 11,43 |
| s                   | 0,9  | 1,3  | 1,5  | 2    | 2,5  | 3    | 4    | 5     | 6     | 8      | 10    |
| l                   | 2-10 | 3-10 | 3-20 | 4-40 | 5-50 | 5-60 | 6-60 | 10-70 | 12-70 | 16-100 | 30-80 |

**DIN 915**

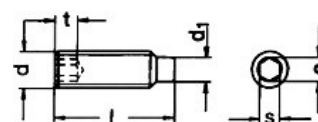
**A2**

**A4**

ISO 4028



**Βίδα άλεν χωρίς κεφάλι (πύρος)**  
Hexagon socket set screw with dog point



| d                   | M2   | M2,5 | M3   | M4   | M5   | M6   | M8   | M10   | M12   | M16   | M20   |
|---------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|
| d <sub>1</sub> max. | 1    | 2    | 2    | 2,5  | 3,5  | 4    | 5,5  | 7     | 8,5   | 12    | 15    |
| t min.              | 0,8  | 1,2  | 1,2  | 1,5  | 2    | 2    | 3    | 4     | 4,8   | 6,4   | 8     |
| e                   | 1    | 1,43 | 1,73 | 2,3  | 2,87 | 3,44 | 4,58 | 5,72  | 6,86  | 9,15  | 11,43 |
| s                   | 0,9  | 1,3  | 1,5  | 2    | 2,5  | 3    | 4    | 5     | 6     | 8     | 10    |
| l                   | 3-10 | 3-10 | 4-20 | 4-25 | 5-35 | 6-60 | 8-80 | 10-60 | 12-70 | 20-80 | 40-80 |

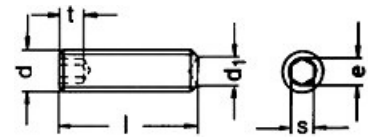
**DIN 916****A2****A4**

ISO 4029

Metric / UNC

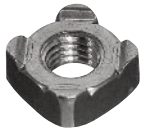


**Βίδα άλεν χωρίς κεφάλι (κώνος)**  
 Hexagon socket set screw with cup point

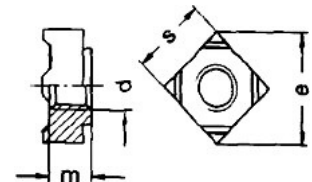


| UNC                 |      |      |      |      |      | 3/16" |
|---------------------|------|------|------|------|------|-------|
| d                   | M1,6 | M2   | M2,5 | M3   | M4   | M5    |
| d <sub>1</sub> max. | 0,8  | 1    | 1,2  | 1,4  | 2    | 2,5   |
| t min.              | 0,7  | 0,8  | 1,2  | 1,2  | 1,5  | 2     |
| e                   | 0,8  | 1    | 1,43 | 1,73 | 2,3  | 2,87  |
| s                   | 0,7  | 0,9  | 1,3  | 1,5  | 2    | 2,5   |
| l                   | 3-8  | 3-10 | 3-12 | 3-30 | 4-40 | 4-60  |

| UNC                 | 1/4" | 5/16" | 3/8" | 1/2" x 12 x 13 |        |        |
|---------------------|------|-------|------|----------------|--------|--------|
| d                   | M6   | M8    | M10  | M12            | M16    | M20    |
| d <sub>1</sub> max. | 3    | 5     | 6    | 8              | 10     | 14     |
| t min.              | 2    | 3     | 4    | 4,8            | 6,4    | 8      |
| e                   | 3,44 | 4,58  | 5,72 | 6,86           | 9,15   | 11,43  |
| s                   | 3    | 4     | 5    | 6              | 8      | 10     |
| l                   | 5-60 | 6-60  | 8-70 | 10-80          | 16-100 | 20-100 |

**DIN 928****A2**

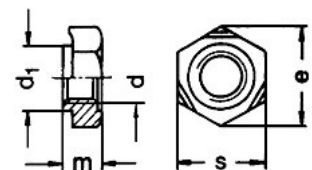
**Παξιμάδι τετράγωνο κολλητό**  
 Square weld nut



| d | M5 (SW 8) | M6 | M8  |
|---|-----------|----|-----|
| s | 8         | 10 | 14  |
| e | 11        | 13 | 18  |
| m | 4,2       | 5  | 6,5 |

**DIN 929****A2****A4**

**Παξιμάδι εξαγωνο κολλητό**  
 Hexagon weld nut



| d              | M3   | M4   | M5    | M6    | M8    | M10   | M12   | M16   |
|----------------|------|------|-------|-------|-------|-------|-------|-------|
| s              | 7,5  | 9    | 10    | 11    | 14    | 17    | 19    | 24    |
| e              | 8,15 | 9,83 | 10,95 | 12,02 | 15,38 | 18,74 | 20,91 | 26,51 |
| m              | 3    | 3,5  | 4     | 5     | 6,5   | 8     | 10    | 13    |
| d <sub>1</sub> | 4,5  | 6    | 7     | 8     | 10,5  | 12,5  | 14,8  | 18,8  |

**DIN 931**

**A2**

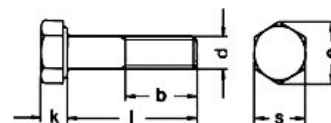
**A4**

ISO 4014

Metric / UNC



**Βίδα εξαγωνης κεφαλής με κορμό**  
Hexagon head screw with shank



| UNC     | 3/16"  | 1/4"   | 5/16"  | 3/8" - 7/16" | 1/2" x 12 x 13 |        | 5/8"   |        | 3/4"   | 7/8"   |
|---------|--------|--------|--------|--------------|----------------|--------|--------|--------|--------|--------|
| d       | M5     | M6     | M8     | M10          | M12            | M14    | M16    | M18    | M20    | M22    |
| b ≤ 125 | 16     | 18     | 22     | 26           | 30             | 34     | 38     | 42     | 46     | 50     |
| b ≤ 200 | -      | 24     | 28     | 32           | 36             | 40     | 44     | 48     | 52     | 56     |
| b > 200 | -      | -      | 41     | 45           | 49             | 53     | 57     | 61     | 65     | 69     |
| k       | 3,5    | 4      | 5,3    | 6,4          | 7,5            | 8,8    | 10     | 11,5   | 12,5   | 14     |
| e       | 8,79   | 11,05  | 14,38  | 18,9         | 21,1           | 24,49  | 26,75  | 30,14  | 33,53  | 35,72  |
| s       | 8      | 10     | 13     | 17           | 19             | 22     | 24     | 27     | 30     | 32     |
| l       | 30-100 | 30-180 | 35-220 | 40-220       | 45-300         | 55-200 | 55-360 | 65-160 | 60-360 | 80-200 |

| UNC     | 1"     |        |        |        |         |         |         |         |         |  |
|---------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--|
| d       | M24    | M27    | M30    | M33    | M36     | M39     | M42     | M48     | M52     |  |
| b ≤ 125 | 54     | 60     | 66     | 72     | 78      | —       | —       | —       | —       |  |
| b ≤ 200 | 60     | 66     | 72     | 78     | 84      | —       | —       | —       | —       |  |
| b > 200 | 73     | 79     | 85     | 91     | 97      | —       | —       | —       | —       |  |
| k       | 15     | 17     | 18,7   | 21     | 22,5    | 25      | 26      | 30      | 34      |  |
| e       | 39,98  | 45,20  | 50,85  | 55,37  | 60,79   | 66,4    | 71,3    | 82,60   | 88,25   |  |
| s       | 36     | 41     | 46     | 50     | 55      | 60      | 65      | 75      | 80      |  |
| l       | 75-360 | 80-300 | 80-300 | 90-300 | 100-300 | 120-300 | 200-300 | 200-300 | 200-300 |  |

**DIN 933**

**A2**

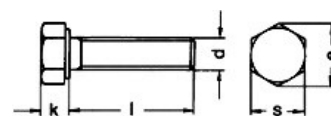
**A4**

ISO 4017

Metric / UNC



**Βίδα εξαγωνης κεφαλής, όλο σπειρώμα**  
Hexagon head screw, fully threaded



| UNC |      |      | 3/16" | 1/4"  | 5/16"  | 3/8"   | 1/2" x 12 x 13 |        | 5/8"   |
|-----|------|------|-------|-------|--------|--------|----------------|--------|--------|
| d   | M3   | M4   | M5    | M6    | M8     | M10    | M12            | M14    | M16    |
| k   | 2    | 2,8  | 3,5   | 4     | 5,3    | 6,4    | 7,5            | 8,8    | 10     |
| e   | 6,01 | 7,66 | 8,79  | 11,05 | 14,38  | 18,9   | 21,1           | 24,49  | 26,75  |
| s   | 5,5  | 7    | 8     | 10    | 13     | 17     | 19             | 22     | 24     |
| l   | 5-40 | 6-60 | 6-80  | 8-120 | 10-180 | 10-200 | 16-200         | 20-150 | 20-200 |

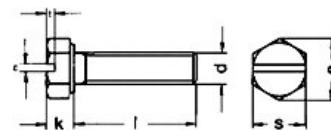
| UNC |        | 3/4"  | 7/8"   | 1"     |        |        |        |        |  |
|-----|--------|-------|--------|--------|--------|--------|--------|--------|--|
| d   | M18    | M20   | M22    | M24    | M27    | M30    | M33    | M36    |  |
| k   | 11,5   | 12,5  | 14     | 15     | 17     | 18,7   | 21     | 22,5   |  |
| e   | 30,14  | 33,53 | 35,72  | 39,98  | 45,2   | 50,85  | 55,37  | 60,79  |  |
| s   | 27     | 30    | 32     | 36     | 41     | 46     | 50     | 55     |  |
| l   | 30-150 | 30-00 | 30-150 | 40-200 | 50-150 | 50-200 | 70-150 | 80-150 |  |

**DIN 933 SZ****A2****A4**

ISO 4017



**Βίδα εξαγωνη για κατασβίδι, όλο σπείρωμα**  
 Hexagon head screw with slot, fully threaded



| d | M3   | M4   | M5   | M6    | M8    |
|---|------|------|------|-------|-------|
| k | 2    | 2,8  | 3,5  | 4     | 5,3   |
| e | 6,01 | 7,66 | 8,79 | 11,05 | 14,38 |
| s | 5,5  | 7    | 8    | 10    | 13    |
| t | 0,8  | 1,1  | 1,4  | 1,6   | 2,1   |
| n | 0,8  | 1,1  | 1,2  | 1,6   | 2     |
| l | 5-20 | 6-35 | 6-40 | 8-50  | 12-50 |

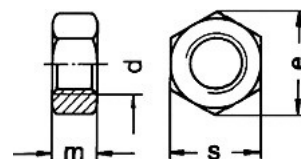
**DIN 934****A2****A4**

ISO 4032

Metric / UNC



**Παξιμάδι εξαγωνο**  
 Hexagon nut

**Metric**

| d | M1,6 | M2   | M2,3 | M2,5 | M2,6 | M3   | M4   | M5   | M6    | M7    | M8    | M10   | M12   | M14   |
|---|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| s | 3,2  | 4    | 4,5  | 5    | 5    | 5,5  | 7    | 8    | 10    | 11    | 13    | 17    | 19    | 22    |
| e | 3,48 | 4,38 | 4,88 | 5,45 | 5,45 | 6,01 | 7,66 | 8,79 | 11,05 | 12,12 | 14,38 | 18,90 | 21,10 | 24,49 |
| m | 1,3  | 1,6  | 1,8  | 2    | 2    | 2,4  | 3,2  | 4    | 2     | 5,5   | 6,5   | 8     | 10    | 11    |

| d | M16   | M18   | M20   | M22   | M24   | M27   | M30   | M33   | M36   | M39   | M42   | M45   | M48   | M52   |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| s | 24    | 27    | 30    | 32    | 36    | 41    | 46    | 50    | 55    | 60    | 65    | 70    | 75    | 80    |
| e | 26,75 | 29,56 | 32,95 | 35,03 | 39,55 | 45,20 | 50,85 | 55,37 | 60,79 | 66,44 | 72,09 | 76,95 | 82,60 | 88,25 |
| m | 13    | 15    | 16    | 18    | 19    | 22    | 24    | 26    | 29    | 31    | 34    | 36    | 38    | 42    |

| d | M8x0,5 | M8x1  | M10x1 | M10x1,25 | M12x1 | M12x1,25 | M12x1,5 | M14x1,5 | M16x1,5 | M18x1,5 | M20x1,5 |
|---|--------|-------|-------|----------|-------|----------|---------|---------|---------|---------|---------|
| s | 13     | 13    | 17    | 17       | 19    | 19       | 19      | 22      | 24      | 27      | 30      |
| e | 14,38  | 14,38 | 18,90 | 18,90    | 21,10 | 21,10    | 21,10   | 24,49   | 26,75   | 29,56   | 32,95   |
| m | 6,5    | 6,5   | 8     | 8        | 10    | 10       | 10      | 11      | 13      | 15      | 16      |

| d | M20x2 | M22x1,5 | M24x1,5 | M24x2 | M27x1,5 | M27x2 | M30x1,5 | M30x2 | M36x1,5 | M39x1,5 |  |
|---|-------|---------|---------|-------|---------|-------|---------|-------|---------|---------|--|
| s | 30    | 32      | 36      | 36    | 41      | 41    | 46      | 46    | 55      | 60      |  |
| e | 32,95 | 35,03   | 39,55   | 39,5  | 45,20   | 45,20 | 50,85   | 50,85 | 60,79   | 66,44   |  |
| m | 16    | 18      | 19      | 19    | 22      | 22    | 24      | 24    | 29      | 31      |  |

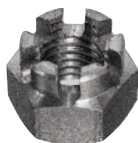
**UNC**

| d | 1/8" | 5/32" | 3/16" | 1/4" | 5/16" | 3/8" | 7/16" | 1/2" x 12 x 13 | 9/16" | 5/8" | 3/4" | 7/8" | 1"   |
|---|------|-------|-------|------|-------|------|-------|----------------|-------|------|------|------|------|
| s | 5,5  | 7     | 8     | 11   | 14    | 17   | 17    | 22             | 22    | 27   | 32   | 36   | 41   |
| e | 6    | 7,9   | 8,8   | 12,7 | 16,2  | 19,6 | 19,8  | 25,4           | 25    | 31,2 | 36,9 | 41,6 | 47,3 |
| m | 2,4  | 3,2   | 4     | 5,5  | 6,5   | 8    | 9,5   | 11             | 12,2  | 13   | 16   | 18   | 20   |

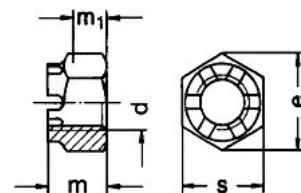
**DIN 935**

**A2**

**A4**



**Παξιμάδι εξαγωνο πυργωτό**  
Hexagon castle nut



| d       | M5   | M6    | M8    | M10     | M12     | M14     | M16   | M18   | M20   | M22     | M24   | M27   | M30   |
|---------|------|-------|-------|---------|---------|---------|-------|-------|-------|---------|-------|-------|-------|
| s       | 8    | 10    | 13    | 16 (17) | 18 (19) | 21 (22) | 24    | 27    | 30    | 34 (32) | 36    | 41    | 46    |
| e       | 8,79 | 11,05 | 14,38 | 17,77   | 20,03   | 23,36   | 26,75 | 29,56 | 32,95 | 37,29   | 39,55 | 45,20 | 50,85 |
| m       | 6    | 7,5   | 9,5   | 12      | 15      | 16      | 19    | 21    | 22    | 26      | 27    | 30    | 33    |
| m 1min. | 3    | 3,8   | 4,9   | 6,1     | 7,7     | 8,2     | 9,8   | 11,2  | 11,9  | 13,5    | 14,2  | 16,6  | 18,2  |

**DIN 938**

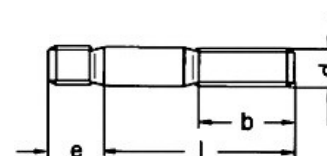
**A2**

**A4**

Metric / UNC



**Μπουζόνι (e~1d)**  
Stud (e~1d)



| UNC | 1/4"   | 5/16"  | 3/8"   | 1/2"   |        | 5/8"   |        | 3/4"   | 7/8"   | 1"     |        |        |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| d   | M6     | M8     | M10    | M12    | M14    | M16    | M18    | M20    | M22    | M24    | M27    | M30    |
| b   | 18     | 22     | 26     | 30     | —      | 38     | —      | 46     | —      | 54     | 60     | 66     |
| e   | 6      | 8      | 10     | 12     | 14     | 16     | 18     | 20     | 22     | 24     | 27     | 30     |
| l   | 20-100 | 20-100 | 30-160 | 30-130 | 40-140 | 40-200 | 50-140 | 50-200 | 80-220 | 50-120 | 90-220 | 90-200 |

**DIN 963**

**A2**

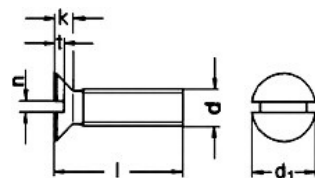
**A4**

ISO 2009

Metric / UNC



**Βίδα με φρεζάτο κεφάλι, για ίσιο κατσαβίδι**  
Countersunk flat head screw, slotted



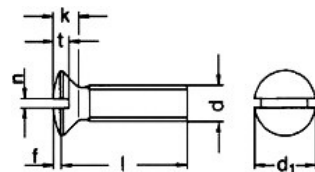
| UNC    |      |      |      | 1/8" | 5/32" | 3/16" | 1/4"  | 5/16"  | 3/8"   | 1/2"   |        | 5/8"   |        | 3/4"   |
|--------|------|------|------|------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| d      | M1,6 | M2   | M2,5 | M3   | M4    | M5    | M6    | M8     | M10    | M12    | M14    | M16    | M18    | M20    |
| t min. | 0,32 | 0,4  | 0,5  | 0,6  | 0,8   | 1     | 1,2   | 1,6    | 2      | 2,4    | 2,8    | 3,2    | 3,6    | 4      |
| n      | 0,4  | 0,5  | 0,6  | 0,8  | 1     | 1,2   | 1,6   | 2      | 2,5    | 3      | 3      | 4      | 4      | 5      |
| k      | 0,96 | 1,2  | 1,5  | 1,65 | 2,2   | 2,5   | 3     | 4      | 5      | 6      | 7      | 8      | 9      | 10     |
| d1     | 3    | 3,8  | 4,7  | 5,6  | 7,5   | 9,2   | 11    | 14,5   | 18     | 22     | 25     | 29     | 33     | 36     |
| l      | 4-10 | 4-25 | 4-25 | 4-60 | 5-80  | 6-100 | 8-120 | 10-120 | 16-120 | 20-100 | 20-150 | 20-150 | 50-150 | 50-150 |

**DIN 964****A2****A4**

ISO 2010



**Βίδα με κεφάλι φακή, για ίσιο καταβίδι**  
 Raised countersunk head screw, slotted



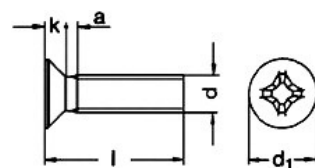
| d      | M2   | M2,5 | M3   | M4   | M5    | M6    | M8     | M10   |
|--------|------|------|------|------|-------|-------|--------|-------|
| t min. | 0,8  | 1    | 1,2  | 1,6  | 2     | 2,4   | 3,2    | 4     |
| n      | 0,5  | 0,6  | 0,8  | 1    | 1,2   | 1,6   | 2      | 2,5   |
| f      | 0,5  | 0,6  | 0,75 | 1    | 1,25  | 1,5   | 2      | 2,5   |
| k      | 1,2  | 1,5  | 1,65 | 2,2  | 2,5   | 3     | 4      | 5     |
| d1     | 3,8  | 4,7  | 5,6  | 7,5  | 9,2   | 11    | 14,5   | 18    |
| l      | 5-20 | 5-30 | 5-50 | 6-80 | 6-100 | 8-100 | 12-100 | 20-60 |

**DIN 965****A2****A4**

ISO 7046



**Βίδα με κεφάλι φρεζάτο, για σταυροκατσάβιδο (H)\***  
 Countersunk flat head screw, cross recess (H)



| d  | M1,6 | M2   | M2,5 | M3   | M4   | M5    | M6    | M8     | M10   |
|----|------|------|------|------|------|-------|-------|--------|-------|
| a. | 0,7  | 0,8  | 0,9  | 1    | 1,4  | 1,6   | 2     | 2,5    | 3     |
| k  | 0,96 | 1,2  | 1,5  | 1,65 | 2,2  | 2,5   | 3     | 4      | 5     |
| d1 | 3    | 3,8  | 4,7  | 5,6  | 7,5  | 9,2   | 11    | 14,5   | 18    |
| l  | 3-12 | 4-20 | 4-20 | 4-40 | 5-70 | 6-100 | 8-100 | 10-100 | 16-60 |

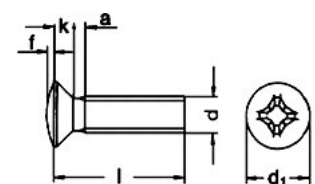
\* Διαθέσιμο και σε pozidrive / Available also in pozidrive

**DIN 966****A2****A4**

ISO 7047



**Βίδα με κεφάλι φακή, για ίσιο καταβίδι (H)\***  
 Raised countersunk head screw, cross recessed (H)



| d  | M2   | M2,5 | M3   | M4   | M5   | M6   | M8    | M10   |
|----|------|------|------|------|------|------|-------|-------|
| a  | 0,8  | 0,9  | 1    | 1,4  | 1,6  | 2    | 2,5   | 3     |
| f  | 0,5  | 0,6  | 0,75 | 1    | 1,25 | 1,5  | 2     | 2,5   |
| k  | 1,2  | 1,5  | 1,65 | 2,2  | 2,5  | 3    | 4     | 5     |
| d1 | 3,8  | 4,7  | 5,6  | 7,5  | 9,2  | 11   | 14,5  | 18    |
| l  | 6-10 | 6-16 | 5-25 | 5-50 | 6-80 | 8-80 | 16-80 | 25-35 |

\* Διαθέσιμο και σε pozidrive / Available also in pozidrive

**DIN 975**

**A2**

**A4**

Metric / UNC



**Ντίζα**  
Thread rod



**Metric**

**UNC**

| d              | M3 | M8  | M16 | M24 | M36 | M48 | d      | 5/32" | 3/8"      | 9/16" |
|----------------|----|-----|-----|-----|-----|-----|--------|-------|-----------|-------|
|                | M4 | M10 | M18 | M27 | M39 | M52 |        | 3/16" | 1/2" x 12 | 5/8"  |
|                | M5 | M12 | M20 | M30 | M42 |     |        | 1/4"  | 1/2" x 13 | 3/4"  |
|                | M6 | M14 | M22 | M33 | M45 |     |        | 5/16" | 7/16"     | 1"    |
| l = 1m, 2m, 3m |    |     |     |     |     |     | l = 1m |       |           |       |

**DIN 980**

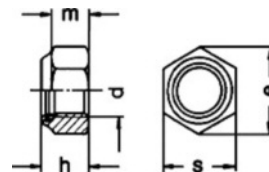
**A2**

**A4**

ISO 7042



**Παξιμάδι ασφαλείας, όλο μεταλλικό**  
Prevailing torque type hexagon nut, all metal



| d | M3   | M4   | M5   | M6    | M8    | M10  | M12  | M14   | M16   | M18   | M20   | M24   |
|---|------|------|------|-------|-------|------|------|-------|-------|-------|-------|-------|
| s | 5,5  | 7    | 8    | 10    | 13    | 17   | 19   | 22    | 24    | 27    | 30    | 36    |
| e | 6,01 | 7,66 | 8,79 | 11,05 | 14,38 | 18,9 | 21,1 | 24,49 | 26,75 | 29,56 | 32,95 | 39,55 |
| m | 1,65 | 2,2  | 2,75 | 3,3   | 4,4   | 5,5  | 6,6  | 7,7   | 8,8   | 9,9   | 11    | 13,2  |
| h | 3,7  | 4,2  | 5,1  | 6     | 8     | 10   | 12   | 14    | 16    | 18    | 20    | 24    |

**DIN 982**

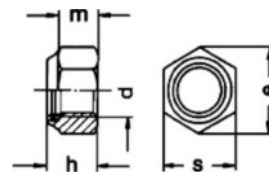
**A2**

**A4**

ISO 7040



**Παξιμάδι ασφαλείας ψηλό (ηλεκτρονική ασφαλεία)**  
Prevailing torque type hexagon nut,  
non metallic insert (high type)

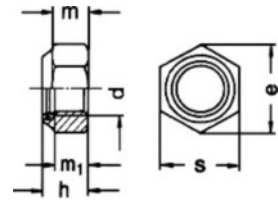


| d | M5   | M6    | M8    | M10  | M12   | M16   | M20   |
|---|------|-------|-------|------|-------|-------|-------|
| s | 8    | 10    | 13    | 17   | 19    | 24    | 30    |
| e | 8,79 | 11,05 | 14,38 | 18,9 | 21,1  | 26,75 | 32,95 |
| m | 4,4  | 4,9   | 6,44  | 8,04 | 10,37 | 14,1  | 16,9  |
| h | 6,3  | 8     | 9,5   | 11,5 | 14    | 18    | 22    |

**DIN 985****A2****A4**

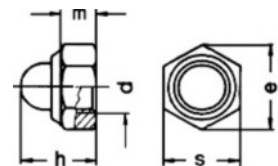
ISO 10511

Metric / UNC

**Παξιμάδι ασφαλείας (πλαστική ασφάλεια)**Prevailing torque type hexagon nut,  
non-metallic insert, thin type

| UNC            |      |      | 3/16" | 1/4"  | 5/16" | 3/8" | 1/2" |       | 5/8"  |
|----------------|------|------|-------|-------|-------|------|------|-------|-------|
| d              | M3   | M4   | M5    | M6    | M8    | M10  | M12  | M14   | M16   |
| s              | 5,5  | 7    | 8     | 10    | 13    | 17   | 19   | 22    | 24    |
| e              | 6,01 | 7,66 | 8,79  | 11,05 | 14,38 | 18,9 | 21,1 | 24,49 | 26,75 |
| m              | 2,4  | 2,9  | 3,2   | 4     | 5,5   | 6,5  | 8    | 9,5   | 10,5  |
| m <sub>1</sub> | 1,65 | 2,2  | 2,75  | 3,3   | 4,4   | 5,5  | 6,6  | 7,7   | 8,8   |
| h              | 4    | 5    | 5     | 6     | 8     | 10   | 12   | 14    | 16    |

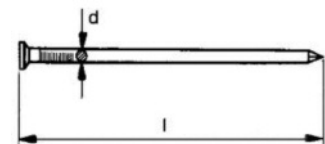
| UNC            |       | 3/4"  | 7/8"  | 1"    |       |       |       |       |  |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| d              | M18   | M20   | M22   | M24   | M27   | M30   | M33   | M36   |  |
| s              | 27    | 30    | 32    | 36    | 41    | 46    | 50    | 55    |  |
| e              | 29,56 | 32,95 | 35,05 | 39,55 | 45,02 | 50,85 | 55,37 | 60,79 |  |
| m              | 13    | 14    | 15    | 15    | 17    | 19    | 22    | 25    |  |
| m <sub>1</sub> | 9,9   | 11    | 12,2  | 13,2  | 14,8  | 16,5  | 18,2  | 19,8  |  |
| h              | 18,5  | 20    | 22    | 24    | 27    | 30    | 33    | 36    |  |

**DIN 986****A2****Τυφλό παξιμάδι ασφαλείας (πλαστική ασφάλεια)**Prevailing torque type hexagon domed cap nut,  
non metallic insert

| d | M4   | M5   | M6    | M8    | M10  | M12   | M16   |
|---|------|------|-------|-------|------|-------|-------|
| s | 7    | 8    | 10    | 13    | 17   | 19    | 24    |
| e | 7,66 | 8,79 | 11,05 | 14,38 | 18,9 | 21,1  | 26,75 |
| m | 2,9  | 4,4  | 4,9   | 6,44  | 8,04 | 10,37 | 14,1  |
| h | 9,6  | 10,5 | 12    | 14    | 18,1 | 22,5  | 27,5  |

**DIN 1151****A2****Καρφί**

Nail (serrated)



| d | 2     | 2,5   | 3     | 4     | 5     | 6      |
|---|-------|-------|-------|-------|-------|--------|
| l | 20-40 | 20-40 | 20-60 | 30-70 | 40-80 | 50-120 |

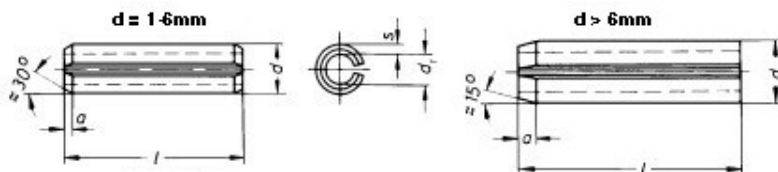
**DIN 1481**

**A2**

ISO 8752



**Ασφάλεια οπής**  
Spring-type straight pin,  
slotted (heavy type)



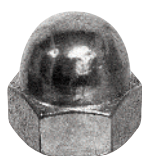
| d       | 1    | 1,5  | 2    | 2,5  | 3    | 3,5  | 4    | 4,5  | 5    | 6      | 8      | 10     | 12    |
|---------|------|------|------|------|------|------|------|------|------|--------|--------|--------|-------|
| a       | 0,15 | 0,25 | 0,35 | 0,4  | 0,5  | 0,6  | 0,65 | 0,8  | 0,9  | 1,2    | 2      | 2      | 2     |
| s       | 0,2  | 0,3  | 0,4  | 0,5  | 0,6  | 0,75 | 0,8  | 1    | 1    | 1,25   | 1,5    | 2      | 2,5   |
| d1 min. | 1,2  | 1,7  | 2,3  | 2,8  | 3,3  | 3,8  | 4,4  | 4,9  | 5,4  | 6,4    | 8,5    | 10,5   | 12,5  |
| l       | 4-20 | 4-20 | 4-30 | 4-30 | 4-40 | 6-40 | 6-50 | 8-50 | 8-70 | 10-100 | 10-100 | 12-120 | 30-80 |

**DIN 1587**

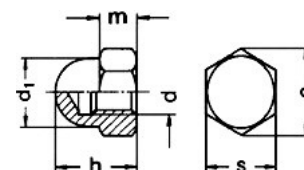
**A2**

**A4**

Metric / UNC



**Παξιμάδι τυφλό**  
Hexagon domed cap nut (high type)



| UNC     |      |      | 3/16" | 1/4"  | 5/16" | 3/8"    | 1/2"    |         |       | 5/8"  |       |         | 3/4"  |      |     |
|---------|------|------|-------|-------|-------|---------|---------|---------|-------|-------|-------|---------|-------|------|-----|
| d       | M3   | M4   | M5    | M6    | M8    | M10     | M12     | M14     | M16   | M18   | M20   | M22     | M24   | M27  | M30 |
| s       | 5,5  | 7    | 8     | 10    | 13    | 16 (17) | 18 (19) | 21 (22) | 24    | 27    | 30    | 34 (32) | 36    | 41   | 46  |
| e       | 6,01 | 7,66 | 8,79  | 11,05 | 14,38 | 17,77   | 20,03   | 23,36   | 26,75 | 30,14 | 33,53 | 37,29   | 39,98 | 47,3 | 52  |
| d1 max. | 5,5  | 6,5  | 7,5   | 9,5   | 12,5  | 16      | 18      | 21      | 23    | 26    | 28    | 33      | 34    | 40   | 42  |
| m max.  | 2,4  | 3,2  | 4     | 5     | 6,5   | 8       | 10      | 11      | 13    | 15    | 16    | 18      | 19    | 20   | 24  |
| h       | 6    | 8    | 10    | 12    | 15    | 18      | 22      | 25      | 28    | 32    | 34    | 39      | 42    | 47   | 52  |

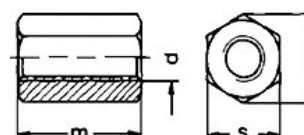
**DIN 6334**

**A2**

**A4**



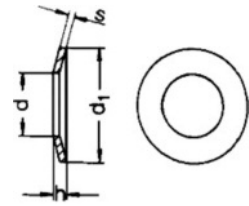
**Παξιμάδι μακρύ**  
Hexagon nut (m=3d)



| d | M6    | M8 | M10  | M12  | M14  | M16  | M20  | M24  |
|---|-------|----|------|------|------|------|------|------|
| s | 10    | 13 | 17   | 19   | 22   | 24   | 30   | 36   |
| e | 11,05 | 15 | 19,6 | 21,9 | 24,5 | 27,7 | 34,6 | 41,6 |
| m | 18    | 24 | 30   | 36   | 42   | 48   | 60   | 72   |

**DIN 6796****A2****A4**

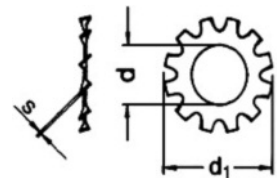
**Ροδέλα κωνική**  
Conical spring washer



| d              | 2,7  | 3,2  | 4,3  | 5,3  | 6,4 | 8,4  | 10,5 | 13   | 15   | 17   | 19   | 21  | 23   | 25   |
|----------------|------|------|------|------|-----|------|------|------|------|------|------|-----|------|------|
| for thread     | M2,5 | M3   | M4   | M5   | M6  | M8   | M10  | M12  | M14  | M16  | M18  | M20 | M22  | M24  |
| d <sub>1</sub> | 6    | 7    | 9    | 11   | 14  | 18   | 23   | 29   | 35   | 39   | 42   | 45  | 49   | 56   |
| h max.         | 0,72 | 0,85 | 1,3  | 1,55 | 2   | 2,6  | 3,2  | 3,95 | 4,65 | 5,25 | 5,8  | 6,4 | 7,05 | 7,75 |
| h min.         | 0,61 | 0,72 | 1,12 | 1,35 | 1,7 | 2,24 | 2,8  | 3,43 | 4,04 | 4,58 | 5,08 | 5,6 | 6,15 | 6,77 |
| s              | 0,5  | 0,6  | 1    | 1,2  | 1,5 | 2    | 2,5  | 3    | 3,5  | 4    | 4,5  | 5   | 5,5  | 6    |

**DIN 6797 A****A2**

**Αστέρι, έξω δόντια, (form A)**  
Toothed lock washer (form A)



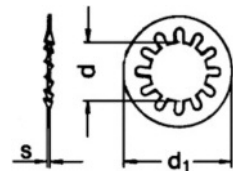
| d              | 2,2 | 2,5  | 2,7  | 2,8  | 3,2 | 3,7  | 4,3 | 5,1 | 5,3 | 6,4 |
|----------------|-----|------|------|------|-----|------|-----|-----|-----|-----|
| for screws     | M2  | M2,3 | M2,5 | M2,6 | M3  | M3,5 | M4  | M5  | M5  | M6  |
| d <sub>1</sub> | 4,5 | 5    | 5,5  | 5,5  | 6   | 7    | 8   | 9   | 10  | 11  |
| s              | 0,3 | 0,4  | 0,4  | 0,4  | 0,4 | 0,5  | 0,5 | 0,5 | 0,6 | 0,7 |

| d              | 8,2 | 8,4 | 10,5 | 13   | 15  | 17  | 19  | 21  | 25  | 28  |
|----------------|-----|-----|------|------|-----|-----|-----|-----|-----|-----|
| for screws     | M8  | M8  | M10  | M12  | M14 | M16 | M18 | M20 | M24 | M27 |
| d <sub>1</sub> | 14  | 15  | 18   | 20,5 | 24  | 26  | 30  | 33  | 38  | 44  |
| s              | 0,8 | 0,8 | 0,9  | 1    | 1   | 1,2 | 1,4 | 1,4 | 1,5 | 1,6 |

**DIN 6797 I****A2**

**Αστέρι, μέσα δόντια, (form I)**  
Toothed lock washer (form I)



| d              | 2,2 | 2,5  | 2,7  | 2,8  | 3,2 | 3,7  | 4,3 | 5,1 | 5,3 | 6,4 |
|----------------|-----|------|------|------|-----|------|-----|-----|-----|-----|
| for screws     | M2  | M2,3 | M2,5 | M2,6 | M3  | M3,5 | M4  | M5  | M5  | M6  |
| d <sub>1</sub> | 4,5 | 5    | 5,5  | 5,5  | 6   | 7    | 8   | 9   | 10  | 11  |
| s              | 0,3 | 0,4  | 0,4  | 0,4  | 0,4 | 0,5  | 0,5 | 0,5 | 0,6 | 0,7 |

| d              | 8,2 | 8,4 | 10,5 | 13   | 15  | 17  | 19  | 21  | 25  | 28  |
|----------------|-----|-----|------|------|-----|-----|-----|-----|-----|-----|
| for screws     | M8  | M8  | M10  | M12  | M14 | M16 | M18 | M20 | M24 | M27 |
| d <sub>1</sub> | 14  | 15  | 18   | 20,5 | 24  | 26  | 30  | 33  | 38  | 44  |
| s              | 0,8 | 0,8 | 0,9  | 1    | 1   | 1,2 | 1,4 | 1,4 | 1,5 | 1,6 |

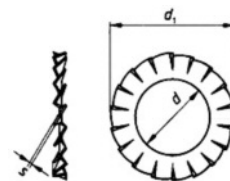
## DIN 6798 A

A2

A4



**Αστέρι (form A)**  
Serrated lock washer (form A)



| d              | 2,2 | 2,5  | 2,7  | 2,8  | 3,2 | 3,7  | 4,3 | 5,1 | 5,3 | 6,4 | 7,4  | 8,2 |
|----------------|-----|------|------|------|-----|------|-----|-----|-----|-----|------|-----|
| for screws     | M2  | M2,3 | M2,5 | M2,6 | M3  | M3,5 | M4  | M5  | M5  | M6  | M7   | M8  |
| d <sub>1</sub> | 4,5 | 5    | 5,5  | 5,5  | 6   | 7    | 8   | 9   | 10  | 11  | 12,5 | 14  |
| s              | 0,3 | 0,4  | 0,4  | 0,4  | 0,4 | 0,5  | 0,5 | 0,5 | 0,6 | 0,7 | 0,8  | 0,8 |

| d              | 8,4 | 10,5 | 13   | 15  | 17  | 19  | 21  | 23  | 25  | 28  | 31  |  |
|----------------|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|--|
| for screws     | M8  | M10  | M12  | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 |  |
| d <sub>1</sub> | 15  | 18   | 20,5 | 24  | 26  | 30  | 33  | 36  | 38  | 44  | 48  |  |
| s              | 0,8 | 0,9  | 1    | 1   | 1,2 | 1,4 | 1,4 | 1,5 | 1,5 | 1,6 | 1,6 |  |

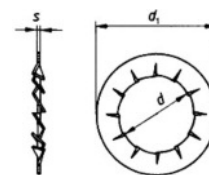
## DIN 6798 I

A2

A4



**Αστέρι (form I)**  
Serrated lock washer (form I)



| d              | 2,2 | 2,5  | 2,7  | 2,8  | 3,2 | 3,7  | 4,3 | 5,1 | 5,3 | 6,4 | 7,4  | 8,2 |
|----------------|-----|------|------|------|-----|------|-----|-----|-----|-----|------|-----|
| for screws     | M2  | M2,3 | M2,5 | M2,6 | M3  | M3,5 | M4  | M5  | M5  | M6  | M7   | M8  |
| d <sub>1</sub> | 4,5 | 5    | 5,5  | 5,5  | 6   | 7    | 8   | 9   | 10  | 11  | 12,5 | 14  |
| s              | 0,3 | 0,4  | 0,4  | 0,4  | 0,4 | 0,5  | 0,5 | 0,5 | 0,6 | 0,7 | 0,8  | 0,8 |

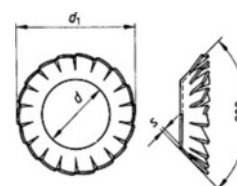
| d              | 8,4 | 10,5 | 13   | 15  | 17  | 19  | 21  | 23  | 25  | 28  | 31  |  |
|----------------|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|--|
| for screws     | M8  | M10  | M12  | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 |  |
| d <sub>1</sub> | 15  | 18   | 20,5 | 24  | 26  | 30  | 33  | 36  | 38  | 44  | 48  |  |
| s              | 0,8 | 0,9  | 1    | 1   | 1,2 | 1,4 | 1,4 | 1,5 | 1,5 | 1,6 | 1,6 |  |

## DIN 6798 V

A2



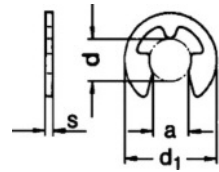
**Αστέρι (form V)**  
Serrated lock washer  
for countersunk head screws (form V)



| d              | 3,2 | 4,3  | 5,3 | 6,4  | 8,4  |
|----------------|-----|------|-----|------|------|
| for screws     | M3  | M4   | M5  | M6   | M8   |
| d <sub>1</sub> | 6   | 8    | 9,8 | 11,8 | 15,3 |
| s              | 0,2 | 0,25 | 0,3 | 0,4  | 0,4  |

**DIN 6799****A2**

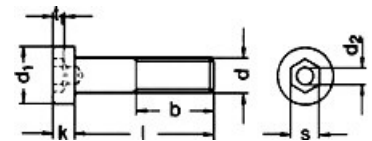
**Ασφάλεια (form E)**  
Retaining washer for shafts



| d           | 1,2   | 1,5   | 1,9   | 2,3  | 3,2  | 4    | 5    | 6    | 7    | 8    | 9     | 10    | 12    | 15    | 19    |
|-------------|-------|-------|-------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|
| for shaft Ø | 1,4-2 | 2-2,5 | 2,5-3 | 3-4  | 4-5  | 5-7  | 6-8  | 7-9  | 8-11 | 9-12 | 10-14 | 11-15 | 13-18 | 16-24 | 20-31 |
| d1 max.     | 2,9   | 4,25  | 4,8   | 6,3  | 7,3  | 9,3  | 11,3 | 12,3 | 14,3 | 16,3 | 18,8  | 20,4  | 23,4  | 29,4  | 37,6  |
| a           | 1,01  | 1,28  | 1,61  | 1,94 | 2,70 | 3,34 | 4,11 | 5,26 | 5,84 | 6,52 | 7,63  | 8,32  | 10,45 | 12,61 | 15,92 |
| s           | 0,3   | 0,4   | 0,5   | 0,6  | 0,6  | 0,7  | 0,7  | 0,7  | 0,9  | 1    | 1,1   | 1,2   | 1,3   | 1,5   | 1,75  |

**DIN 6912****A2****A4**

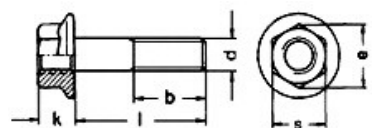
**Άλεν με χαμηλό κεφάλι**  
Hexagon socket head cap screw, low head and pilot recess



| d       | M3   | M4   | M5   | M6   | M8     | M10    | M12    | M14    | M16    | M18    | M20    | M24    |
|---------|------|------|------|------|--------|--------|--------|--------|--------|--------|--------|--------|
| b       | 12   | 14   | 16   | 18   | 22     | 26     | 30     | 34     | 38     | 42     | 46     | 54     |
| d2 min. | -    | 2    | 2,5  | 3    | 4      | 5      | 6      | 7      | 8      | 8      | 10     | 12     |
| t1 min. | 1,5  | 1,48 | 1,88 | 2,38 | 2,88   | 3,35   | 3,85   | 4,35   | 5,35   | 6      | 6,32   | 7      |
| s       | 2    | 3    | 4    | 5    | 6      | 8      | 10     | 12     | 14     | 14     | 17     | 19     |
| k max.  | 2    | 2,8  | 3,5  | 4    | 5      | 6,5    | 7,5    | 8,5    | 10     | 11     | 12     | 14     |
| d1 max. | 5,5  | 7    | 8,5  | 10   | 13     | 16     | 15     | 21     | 24     | 27     | 30     | 36     |
| l       | 5-40 | 6-50 | 6-60 | 8-80 | 10-100 | 16-100 | 16-100 | 25-150 | 25-150 | 30-150 | 30-150 | 50-150 |

**DIN 6921****A2**

**Βίδα εξαγωνη με ενσωματωμένη ροδέλα**  
Hexagon head screw with flange and serration



| d | M5    | M6    | M8    | M10   | M12   | M16   |
|---|-------|-------|-------|-------|-------|-------|
| b | 16    | 18    | 22    | 26    | 30    | 38    |
| k | 5,4   | 6,6   | 8,1   | 9,2   | 11,5  | 14,4  |
| e | 8,71  | 10,95 | 14,26 | 16,5  | 17,62 | 23,15 |
| s | 8     | 10    | 13    | 15    | 16    | 21    |
| l | 10-16 | 10-35 | 10-50 | 16-60 | 25-60 | 30-70 |

**DIN 6923**

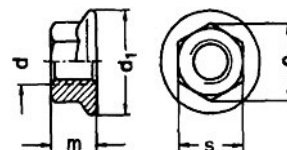
**A2**

**A4**

ISO 4161



Παξιμάδι με ενσωματωμένη γραναζωτή ροδέλα  
Hexagon flange nut



| d              | M5   | M6    | M8    | M10   | M12   |
|----------------|------|-------|-------|-------|-------|
| d <sub>1</sub> | 11,8 | 14,2  | 17,9  | 21,8  | 26    |
| m              | 5    | 6     | 8     | 10    | 12    |
| e              | 8,79 | 11,05 | 14,38 | 16,64 | 20,03 |
| s              | 8    | 10    | 13    | 15    | 18    |

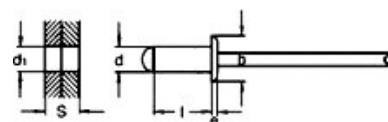
**DIN 7337**

**A2**

ISO 15983



Πιρτσίνι  
Blind rivet, (type A), pan head



| d   | d <sub>1</sub> | b   | e   | l  | s         |
|-----|----------------|-----|-----|----|-----------|
| 3,0 | 3,1            | 6,5 | 0,8 | 6  | 1,0-3,0   |
|     |                |     |     | 8  | 3,0-5,0   |
|     |                |     |     | 10 | 5,0-7,0   |
|     |                |     |     | 12 | 7,0-9,0   |
|     |                |     |     | 16 | 9,0-12,0  |
| 3,2 | 3,3            | 6,5 | 0,8 | 6  | 1,0-3,0   |
|     |                |     |     | 8  | 3,0-5,0   |
|     |                |     |     | 10 | 5,0-7,0   |
|     |                |     |     | 12 | 7,0-9,0   |
|     |                |     |     | 14 | 8,5-10,5  |
| 4,0 | 4,1            | 8,0 | 1,0 | 16 | 9,0-12,0  |
|     |                |     |     | 6  | 1,0-2,5   |
|     |                |     |     | 8  | 2,5-4,5   |
|     |                |     |     | 10 | 4,5-6,5   |
|     |                |     |     | 12 | 6,5-8,5   |
| 4,8 | 4,9            | 9,5 | 1,1 | 14 | 8,5-10,0  |
|     |                |     |     | 16 | 8,5-12,0  |
|     |                |     |     | 18 | 11,5-14,0 |
|     |                |     |     | 20 | 12,5-16,5 |
|     |                |     |     | 25 | 16,5-21,5 |
| 5,0 | 5,1            | 9,5 | 1,1 | 8  | 2,0-4,0   |
|     |                |     |     | 10 | 4,0-6,0   |
|     |                |     |     | 12 | 6,0-8,0   |
|     |                |     |     | 14 | 8,0-9,5   |
|     |                |     |     | 16 | 8,0-11,0  |
|     |                |     |     | 18 | 10,0-13,0 |
|     |                |     |     | 8  | 2,0-4,0   |
|     |                |     |     | 10 | 4,0-6,0   |
|     |                |     |     | 12 | 6,0-8,0   |
|     |                |     |     | 16 | 8,0-11,0  |
|     |                |     |     | 18 | 10,0-13,0 |
|     |                |     |     | 20 | 11,0-15,0 |
|     |                |     |     | 25 | 15,0-20,0 |

**DIN 7346****A2**

ISO 13337



**Ασφάλεια οπής σωληνωτή ίσια**  
 Spring-type straight pin, light type



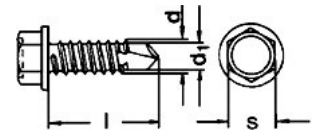
| d | 2     | 2,5   | 3    | 4     | 5     | 6     | 8      | 10     |
|---|-------|-------|------|-------|-------|-------|--------|--------|
| l | 10-26 | 10-32 | 8-30 | 10-40 | 10-60 | 10-60 | 30-100 | 30-100 |

**DIN 7504 K****A2**

ISO 15480



**Λαμαρινόβιδα αυτοδιάτρηση (για αλουμίνια)  
 με εξάγωνο κεφάλι (form K)**  
 Self drilling screw, hexagonal head with flange (form K)



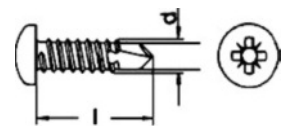
| d | 4,2   | 4,8   | 5,5   | 6,3   |
|---|-------|-------|-------|-------|
| s | 7     | 8     | 8     | 10    |
| l | 13-50 | 16-50 | 19-80 | 22-80 |

**DIN 7504 M****A2**

ISO 15481



**Λαμαρινόβιδα αυτοδιάτρηση (για αλουμίνια)  
 με κεφάλι ψωμάκι (form M)**  
 Self drilling screw, pan head (form M), crossed recessed Z



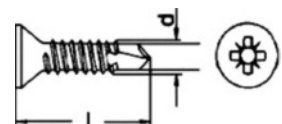
| d | 3,5   | 3,9   | 4,2   | 4,8   |
|---|-------|-------|-------|-------|
| l | 13-25 | 13-38 | 13-70 | 13-70 |

**DIN 7504 O****A2**

ISO 15482



**Λαμαρινόβιδα αυτοδιάτρηση (για αλουμίνια)  
 με φρεζάτο κεφάλι, (form O)**  
 Self drilling screw, countersunk head (form O),  
 crossed recessed Z



| d | 3,5   | 3,9   | 4,2   | 4,8   |
|---|-------|-------|-------|-------|
| l | 13-25 | 13-38 | 13-70 | 13-80 |

**DIN 7971**

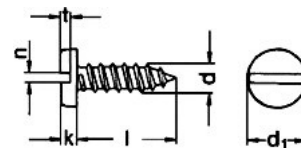
**A2**

**A4**

ISO 1481



**Λαμαρινόβίδα με κεφάλι ψωμάκι, για ίσιο καταβίδι**  
Tapping screw, pan head, slotted, with cone point



| d       | 2,2    | 2,9    | 3,5    | 3,9    | 4,2    | 4,8     | 5,5    | 6,3    |
|---------|--------|--------|--------|--------|--------|---------|--------|--------|
|         | No. 2  | No. 4  | No. 6  | No. 7  | No. 8  | No. 10  | No. 12 | No. 14 |
| t max.  | 0,8    | 1      | 1,25   | 1,4    | 1,5    | 1,7     | 1,95   | 2,2    |
| n       | 0,6    | 0,8    | 1      | 1      | 1,2    | 1,2     | 1,6    | 1,6    |
| k max.  | 1,35   | 1,75   | 2,1    | 2,25   | 2,45   | 2,8     | 3,2    | 3,65   |
| d1 max. | 4,2    | 5,6    | 6,9    | 7,5    | 8,2    | 9,5     | 10,8   | 12,5   |
| l       | 6,5-25 | 6,5-25 | 6,5-38 | 6,5-50 | 9,5-70 | 9,5-100 | 13-100 | 13-100 |

**DIN 7972**

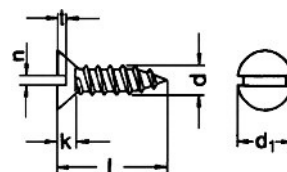
**A2**

**A4**

ISO 1482



**Λαμαρινόβίδα με φρεζάτο κεφάλι, για ίσιο καταβίδι**  
Tapping screw, countersunk head, slotted, with cone point



| d       | 2,2    | 2,9    | 3,5    | 3,9    | 4,2    | 4,8     | 5,5    | 6,3    |
|---------|--------|--------|--------|--------|--------|---------|--------|--------|
|         | No. 2  | No. 4  | No. 6  | No. 7  | No. 8  | No. 10  | No. 12 | No. 14 |
| t max.  | 0,6    | 0,75   | 0,95   | 1,05   | 1,15   | 1,35    | 1,5    | 1,75   |
| n       | 0,6    | 0,8    | 1      | 1      | 1,2    | 1,2     | 1,6    | 1,6    |
| k max.  | 1,3    | 1,7    | 2,1    | 2,3    | 2,5    | 3       | 3,4    | 3,8    |
| d1 max. | 4,3    | 5,5    | 6,8    | 7,5    | 8,1    | 9,5     | 10,8   | 12,4   |
| l       | 6,5-25 | 6,5-25 | 6,5-38 | 6,5-50 | 9,5-70 | 9,5-100 | 13-100 | 13-100 |

**DIN 7973**

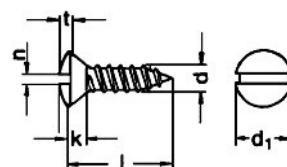
**A2**

**A4**

ISO 1483



**Λαμαρινόβίδα με κεφάλι φακή, για ίσιο καταβίδι**  
Tapping screw, raised countersunk head, slotted, with cone point



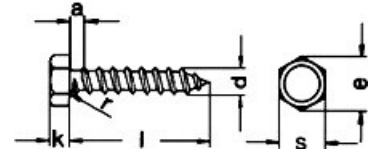
| d       | 2,2    | 2,9    | 3,5    | 3,9    | 4,2    | 4,8     | 5,5    | 6,3    |
|---------|--------|--------|--------|--------|--------|---------|--------|--------|
|         | No. 2  | No. 4  | No. 6  | No. 7  | No. 8  | No. 10  | No. 12 | No. 14 |
| t max.  | 1,15   | 1,5    | 1,9    | 2,05   | 2,25   | 2,6     | 2,95   | 3,45   |
| n       | 0,6    | 0,8    | 1      | 1      | 1,2    | 1,2     | 1,6    | 1,6    |
| k max.  | 1,3    | 1,7    | 2,1    | 2,3    | 2,5    | 3       | 3,4    | 3,8    |
| d1 max. | 4,3    | 5,5    | 6,8    | 7,5    | 8,1    | 9,5     | 10,8   | 12,4   |
| l       | 6,5-25 | 6,5-25 | 6,5-38 | 6,5-50 | 9,5-70 | 9,5-100 | 13-100 | 13-100 |

**DIN 7976****A2****A4**

ISO 1479



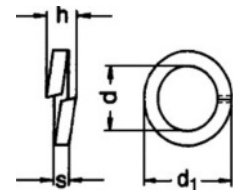
**Λαμαρινόβιδα με εξαγώνο κεφάλι**  
 Tapping screw, hexagon head, with cone point



| d      | 3,5    | 3,9    | 4,2    | 4,8     | 5,5    | 6,3    | 8,0    |
|--------|--------|--------|--------|---------|--------|--------|--------|
|        | No. 6  | No. 7  | No. 8  | No. 10  | No. 12 | No. 14 | No. 16 |
| r max. | 0,5    | 0,5    | 0,6    | 0,7     | 0,8    | 0,9    | 1,1    |
| a max. | 1,3    | 1,3    | 1,4    | 1,6     | 1,8    | 1,8    | 2,1    |
| k max. | 2,42   | 2,42   | 2,92   | 3,12    | 4,15   | 4,95   | 5,95   |
| e      | 6      | 7,66   | 7,66   | 8,79    | 8,79   | 11,05  | 14,38  |
| s      | 5,5    | 7      | 7      | 8       | 8      | 10     | 13     |
| l      | 9,5-38 | 9,5-60 | 9,5-70 | 9,5-120 | 13-120 | 13-100 | 16-70  |

**DIN 7980****A2****A4**

**Γκρόβερ στενό**  
 Spring lock washer for screws, with cylindrical head



| d          | 3   | 3,5  | 4   | 5   | 6   | 8    | 10   | 12   |
|------------|-----|------|-----|-----|-----|------|------|------|
| for thread | M3  | M3,5 | M4  | M5  | M6  | M8   | M10  | M12  |
| d min.     | 3,1 | 3,6  | 4,1 | 5,1 | 6,1 | 8,1  | 10,2 | 12,2 |
| d1 max.    | 5,6 | 6,1  | 7   | 8,8 | 9,9 | 12,7 | 16   | 18   |
| h min.     | 2   | 2    | 2,4 | 3,2 | 3,2 | 4    | 5    | 5    |
| s          | 1   | 1    | 1,2 | 1,6 | 1,6 | 2    | 2,5  | 2,5  |

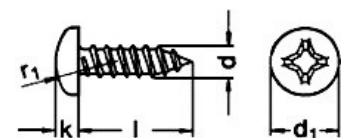
| d          | 14   | 16   | 18   | 20   | 22   | 24   | 27   | 30   |
|------------|------|------|------|------|------|------|------|------|
| for thread | M14  | M16  | M18  | M20  | M22  | M24  | M27  | M30  |
| d min.     | 14,2 | 16,2 | 18,2 | 20,2 | 22,5 | 24,5 | 27,5 | 30,5 |
| d1 max.    | 21,1 | 24,4 | 26,4 | 30,6 | 32,9 | 35,9 | 38,9 | 44,1 |
| h min.     | 6    | 7    | 7    | 9    | 9    | 10   | 10   | 12   |
| s          | 3    | 3,5  | 3,5  | 4,5  | 4,5  | 5    | 5    | 6    |

**DIN 7981****A2****A4**

ISO 7049



**Λαμαρινόβιδα με κεφάλι ψωμάκι, για σταυροκατσάβιδο**  
 Tapping screw, pan head, cross recessed H, with cone point



| d       | 2,2    | 2,9    | 3,5    | 3,9    | 4,2    | 4,8     | 5,5    | 6,3    |
|---------|--------|--------|--------|--------|--------|---------|--------|--------|
|         | No. 2  | No. 4  | No. 6  | No. 7  | No. 8  | No. 10  | No. 12 | No. 14 |
| r1      | 3,4    | 4,4    | 5,4    | 5,8    | 6,2    | 7,2     | 8,2    | 69,5   |
| k max.  | 1,8    | 2,2    | 2,6    | 2,8    | 3,05   | 3,55    | 3,95   | 4,55   |
| d1 max. | 4,2    | 5,6    | 6,9    | 7,5    | 8,2    | 9,5     | 10,8   | 12,5   |
| l       | 4,5-25 | 4,5-32 | 6,5-70 | 6,5-60 | 9,5-80 | 9,5-120 | 13-100 | 13-120 |

**DIN 7982**

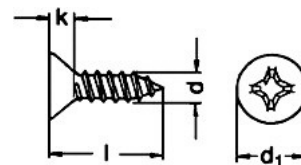
**A2**

**A4**

ISO 7050



**Λαμαρινόβίδα με φρεζάτο κεφάλι, για σταυροκατσάβιδο**  
Tapping screw, countersunk head, cross recessed H, with cone point



| d                   | 2,2    | 2,9    | 3,5    | 3,9    | 4,2    | 4,8     | 5,5    | 6,3    |
|---------------------|--------|--------|--------|--------|--------|---------|--------|--------|
|                     | No. 2  | No. 4  | No. 6  | No. 7  | No. 8  | No. 10  | No. 12 | No. 14 |
| k                   | 1,3    | 1,7    | 2,1    | 2,3    | 2,5    | 3       | 3,4    | 3,8    |
| d <sub>1</sub> max. | 4,3    | 6,5    | 6,8    | 7,5    | 8,1    | 9,5     | 10,8   | 12,4   |
| l                   | 6,5-25 | 6,5-32 | 6,5-60 | 6,5-60 | 9,5-80 | 9,5-120 | 13-100 | 13-100 |

**DIN 7983**

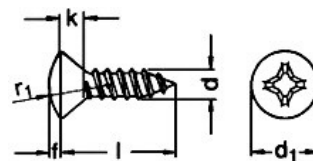
**A2**

**A4**

ISO 7051



**Λαμαρινόβίδα με κεφάλι φακή, για σταυροκατσάβιδο**  
Tapping screw, raised countersunk head, cross recessed H, with cone point



| d                   | 2,2    | 2,9    | 3,5    | 3,9    | 4,2    | 4,8     | 5,5    | 6,3    |
|---------------------|--------|--------|--------|--------|--------|---------|--------|--------|
|                     | No. 2  | No. 4  | No. 6  | No. 7  | No. 8  | No. 10  | No. 12 | No. 14 |
| r <sub>1</sub>      | 3,8    | 4,6    | 5,4    | 6      | 6,6    | 8,2     | 9,4    | 11,1   |
| k max.              | 1,3    | 1,7    | 2,1    | 2,3    | 2,5    | 3       | 3,4    | 3,8    |
| d <sub>1</sub> max. | 4,3    | 5,5    | 6,8    | 7,5    | 8,1    | 9,5     | 10,8   | 12,4   |
| l                   | 6,5-25 | 6,5-32 | 6,5-38 | 6,5-70 | 9,5-70 | 9,5-100 | 13-100 | 13-100 |

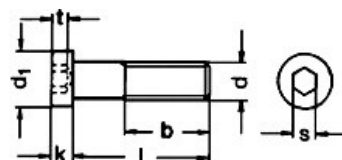
**DIN 7984**

**A2**

**A4**



**Άλεν με χαμηλό κεφάλι**  
Hexagon socket head cap screw, low head



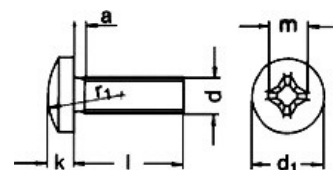
| d              | M3   | M4   | M5   | M6   | M8    | M10   | M12   | M16   | M20   |
|----------------|------|------|------|------|-------|-------|-------|-------|-------|
| b              | 12   | 14   | 16   | 18   | 22    | 26    | 30    | 38    | 46    |
| t              | 1,5  | 2,3  | 2,7  | 3    | 3,8   | 4,5   | 5     | 5,5   | 7,5   |
| s              | 2    | 2,5  | 3    | 4    | 5     | 7     | 8     | 12    | 14    |
| k              | 2    | 2,8  | 3,5  | 4    | 5     | 6     | 7     | 9     | 11    |
| d <sub>1</sub> | 5,5  | 7    | 8,5  | 10   | 13    | 16    | 18    | 24    | 30    |
| l              | 5-40 | 6-40 | 6-70 | 8-70 | 10-80 | 16-80 | 16-80 | 25-80 | 35-80 |

**DIN 7985****A2****A4**

ISO 7045



**Βίδα με κεφάλι ψωμάκι, για σταυροκατσάβιδο**  
 Pan head screw, cross recessed H



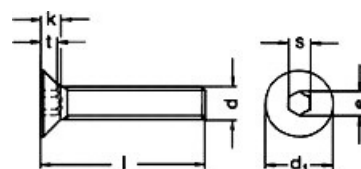
| d                   | M1,6 | M2   | M2,5 | M3   | M4   | M5   | M6   | M8    |
|---------------------|------|------|------|------|------|------|------|-------|
| m                   | 1,8  | 2,5  | 2,7  | 3,1  | 4,6  | 5,3  | 6,8  | 9     |
| r <sub>1</sub>      | 3    | 4    | 5    | 6    | 8    | 10   | 12   | 16    |
| a max.              | 0,7  | 0,8  | 0,9  | 1    | 1,4  | 1,6  | 2    | 2,5   |
| k                   | 1,3  | 1,6  | 2    | 2,4  | 3,1  | 3,8  | 4,6  | 6     |
| d <sub>1</sub> max. | 3,2  | 4    | 5    | 6    | 8    | 10   | 12   | 16    |
| l                   | 3-16 | 3-20 | 3-30 | 3-50 | 5-70 | 6-90 | 8-90 | 10-60 |

**DIN 7991****A2****A4**

ISO 10642



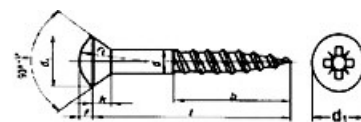
**Βίδα άλεν με φρεζάτο κεφάλι**  
 Hexagon socket countersunk head screw



| d                   | M3   | M4   | M5   | M6    | M8     | M10    | M12    | M16    | M20    | M24    |
|---------------------|------|------|------|-------|--------|--------|--------|--------|--------|--------|
| b ≤ 125             | 12   | 14   | 16   | 18    | 22     | 26     | 30     | 38     | 46     | 54     |
| t                   | 1,2  | 1,8  | 2,3  | 2,5   | 3,5    | 4,4    | 4,6    | 5,3    | 5,9    | 10,3   |
| e                   | 2,3  | 2,87 | 3,44 | 4,58  | 5,72   | 6,86   | 9,15   | 11,43  | 13,72  | 16     |
| s                   | 2    | 2,5  | 3    | 4     | 5      | 6      | 8      | 10     | 12     | 14     |
| k max.              | 1,7  | 2,3  | 2,8  | 3,3   | 4,4    | 5,5    | 6,5    | 7,5    | 8,5    | 14     |
| d <sub>1</sub> max. | 6    | 8    | 10   | 12    | 16     | 20     | 24     | 30     | 36     | 39     |
| l                   | 5-40 | 6-50 | 6-80 | 8-100 | 10-120 | 16-120 | 20-120 | 20-150 | 30-150 | 50-150 |

**DIN 7995****A2****A4**

**Ξυλόβίδα με κεφάλι φακή, για σταυροκατσάβιδο**  
 Wood screw, raised countersunk head, cross recessed Z



| d              | 3       | 3,5   | 4     | 4,5    | 5      | 6      |
|----------------|---------|-------|-------|--------|--------|--------|
|                | No. 5   | No. 6 | No. 8 | No. 9  | No. 11 | No. 13 |
| d <sub>1</sub> | 5,6     | 6,5   | 7,5   | 8,3    | 9,2    | 11     |
| f              | 0,75    | 0,9   | 1     | 1,1    | 1,25   | 1,5    |
| k              | 1,65    | 1,93  | 2,2   | 2,35   | 2,5    | 3      |
| b              | ≥ 0,6xl |       |       |        |        |        |
| r <sub>1</sub> | 6       | 7     | 8     | 9      | 10     | 12     |
| l              | 12-35   | 12-40 | 12-70 | 20-120 | 16-100 | 20-120 |

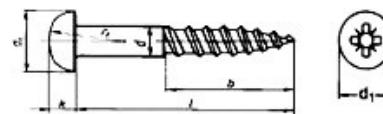
**DIN 7996**

**A2**

**A4**



**Ξυλόβιδα με στρογγυλό κεφάλι, για σταυροκατσάβιδο**  
Wood screw, round head, cross recessed Z



| d              | 3      | 3,5   | 4     | 4,5   | 5      | 6      |
|----------------|--------|-------|-------|-------|--------|--------|
|                | No. 5  | No. 6 | No. 8 | No. 9 | No. 11 | No. 13 |
| d <sub>1</sub> | 6      | 7     | 8     | 9     | 10     | 12     |
| k              | 2,1    | 2,35  | 2,8   | 3,1   | 3,5    | 4,2    |
| b              | ≥0,6xl |       |       |       |        |        |
| r <sub>1</sub> | 4,8    | 5,6   | 6,4   | 7,2   | 8      | 9,6    |
| l              | 16-35  | 16-50 | 16-70 | 25-70 | 16-100 | 25-120 |

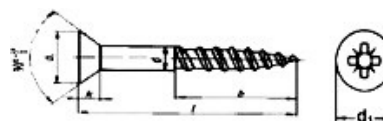
**DIN 7997**

**A2**

**A4**



**Ξυλόβιδα με φρεζάτο κεφάλι, για σταυροκατσάβιδο**  
Wood screw, countersunk head, cross recessed Z



| d              | 3      | 3,5   | 4     | 4,5   | 5      | 6      |
|----------------|--------|-------|-------|-------|--------|--------|
|                | No. 5  | No. 6 | No. 8 | No. 9 | No. 11 | No. 13 |
| d <sub>1</sub> | 5,6    | 6,5   | 7,5   | 8,3   | 9,2    | 11     |
| k              | 1,65   | 1,93  | 2,2   | 2,35  | 2,5    | 3      |
| b              | ≥0,6xl |       |       |       |        |        |
| l              | 12-35  | 12-40 | 16-70 | 20-70 | 16-100 | 25-120 |

**DIN 9021**

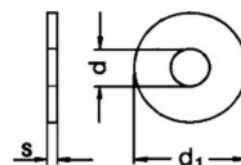
**A2**

**A4**

ISO 7093



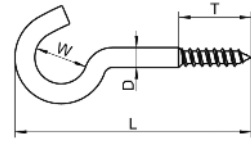
**Ροδέλα φαρδιά**  
Plain washer, outside diameter ~3x



| d                   | 2,7  | 3,2 | 3,7  | 4,3 | 5,3 | 6,4 | 7,4 | 8,4 | 10,5 | 13  | 15  | 17  | 19  | 21  | 26  |
|---------------------|------|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|
| for screw           | M2,5 | M3  | M3,5 | M4  | M5  | M6  | M7  | M8  | M10  | M12 | M14 | M16 | M18 | M20 | M24 |
| d <sub>1</sub> max. | 8    | 9   | 11   | 12  | 15  | 18  | 22  | 24  | 30   | 37  | 44  | 50  | 56  | 60  | 72  |
| s                   | 0,8  | 0,8 | 0,8  | 1   | 1,2 | 1,6 | 2   | 2   | 2,5  | 3   | 3   | 3   | 4   | 4   | 5   |

**Art 1336****A2**

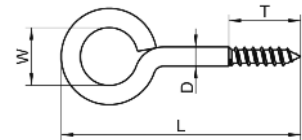
**Βιδοθηλιά ανοικτή**  
Open eye hook



| d | 3,3 | 3,5 |    | 4,4 |    | 5,2 | 6   |
|---|-----|-----|----|-----|----|-----|-----|
| T | 10  | 12  | 15 | 16  | 16 | 21  | 28  |
| W | 14  | 17  | 20 | 16  | 22 | 27  | 25  |
| I | 40  | 50  | 60 | 50  | 65 | 80  | 100 |

**Art 1337****A2**

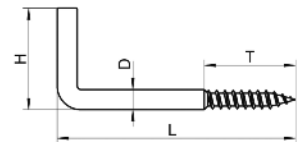
**Βιδοθηλιά κλειστή**  
Eye screw



| d | 3,3 | 3,7 | 4  | 4,4 |
|---|-----|-----|----|-----|
| T | 10  | 12  | 15 | 18  |
| W | 8   | 10  | 12 | 14  |
| L | 16  | 20  | 25 | 30  |

**Art 1338****A2**

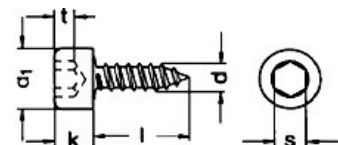
**Στραβόκαρφο**  
Square hook



| d | 3  | 3,5 | 4  | 4,5 | 5  |
|---|----|-----|----|-----|----|
| T | 12 | 15  | 15 | 20  | 20 |
| H | 13 | 15  | 18 | 20  | 20 |
| L | 30 | 40  | 45 | 50  | 60 |

**Art 7912****A2****A4**

**Λαμαρινόβιδα με άλεν κεφάλι**  
Tapping screw with head acc. to DIN 912 / ISO 4762



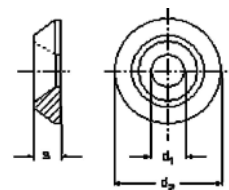
| d              | 4,8   | 5,5   | 6,3   |
|----------------|-------|-------|-------|
| s              | 4     | 5     | 5     |
| d <sub>1</sub> | 8,5   | 10    | 10    |
| k max.         | 5     | 6     | 6     |
| t min.         | 2,5   | 3     | 3     |
| L              | 13-70 | 16-70 | 16-70 |

**Art 8053**

**A2**



**Ροδέλα φρεζάτη τουρνικιέ**  
Finishing washer plain



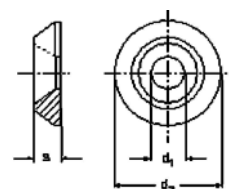
| d | 3 | 4 | 5 | 6 | 8 |
|---|---|---|---|---|---|
|---|---|---|---|---|---|

**Art 8054**

**A2**



**Ροδέλα φρεζάτη μασίφ**  
Finishing washer solid



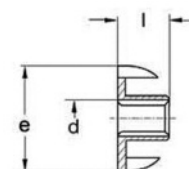
| d1 | 3 | 4  | 5  | 6  | 8  | 10 |
|----|---|----|----|----|----|----|
| d2 | 9 | 11 | 14 | 16 | 22 | 28 |

**Art 8354**

**A2**



**Καρφωτό παξιμάδι**  
Drive in nut (type TSZ)



| d  | M4 | M5  | M6  | M8  | M10  |
|----|----|-----|-----|-----|------|
| d1 | 5  | 6,3 | 7,3 | 9,7 | 11,9 |
| e  | 15 | 17  | 19  | 22  | 25   |
| l  | 8  | 8   | 9   | 11  | 12   |

**Art 8363**

**A2**

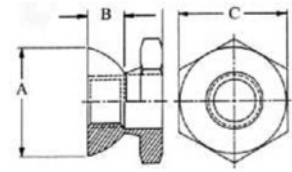


**Εγκλωβισμένο παξιμάδι**  
Cage nut

| Thread | M5 | M6 | M8 |
|--------|----|----|----|
|--------|----|----|----|

**Art 9018****A2**

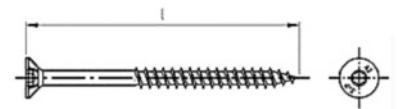
**Παξιμάδι ασφαλείας κρυστάλλων**  
 Shear off nut



| d | M6 | M8 | M10 | M12 |
|---|----|----|-----|-----|
| A | 10 | 13 | 19  | 22  |
| B | 6  | 6  | 8   | 9   |
| C | 10 | 13 | 19  | 22  |

**Art 9047****A2****A4**

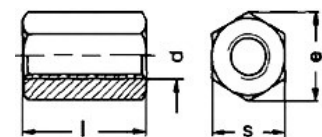
**Ξυλόβιδα Torx**  
 Wood screw Torx



| d | 3     | 4     | 5     | 6      | 8      | 10     |
|---|-------|-------|-------|--------|--------|--------|
| l | 10-40 | 10-70 | 16-90 | 30-180 | 40-300 | 60-360 |

**Art 9071****A2**

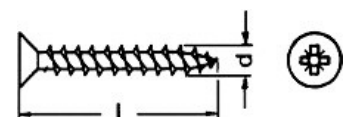
**Παξιμάδι X-Long**  
 Hexagon nut X-Long



| d | M6 | M8 | M10 | M12 | M16 | M20 | M24 |
|---|----|----|-----|-----|-----|-----|-----|
| l | 25 | 25 | 25  | 40  | 40  | 50  | 50  |

**Art 9073****A2****A4**

**Νοβοπανόβιδα**  
 Chipboard pozidrive screw



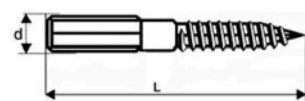
| d | 3     | 3,5   | 4     | 4,5   | 5      | 6      |
|---|-------|-------|-------|-------|--------|--------|
| l | 12-50 | 12-50 | 12-70 | 16-50 | 20-100 | 20-180 |

**Art 9083**

**A2**



**Μπουζονοστρίφωνα**  
Dowel screw (standard type)



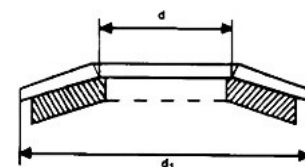
| d | M6     | M8     | M10    | M12     |
|---|--------|--------|--------|---------|
| l | 40-120 | 40-180 | 60-200 | 100-200 |

**Art 9098**

**A2**



**Ροδέλα με λάστιχο**  
Sealing washer



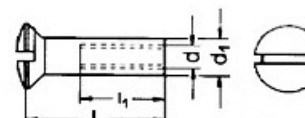
| d              | 4,7  | 5,2 | 6,4 | 6,7 | 8,5 | 9,2 | 10,5 | 13 |
|----------------|------|-----|-----|-----|-----|-----|------|----|
| d <sub>1</sub> | 12,5 | 12  | 12  | 14  | 16  | 19  | 25   | 29 |
|                | 16   | 14  |     | 16  | 17  | 22  | 29   |    |
|                |      | 16  |     | 19  | 19  |     |      |    |
|                |      |     |     | 22  | 22  |     |      |    |
|                |      |     |     | 25  | 25  |     |      |    |
|                |      |     |     |     | 29  |     |      |    |

**Art 9340**

**A2**



**Θηλυκή βίδα φρεζάτη**  
Sleeve nut



|                | M4 | M5  | M6  | M8 |
|----------------|----|-----|-----|----|
| d <sub>1</sub> | 5  | 6,5 | 7,5 | 10 |
| l <sub>1</sub> | 8  | 9   | 9   | 7  |
| l              | 15 | 15  | 15  | 15 |

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