

Countersinks for countersunk head screws

(except screws with DIN EN 27721 head)

DIN
74

ICS 21.060.01

Supersedes DIN 74-1,
November 2000 edition.

Senkungen für Senkschrauben (ausgenommen
Senkschrauben mit Köpfen nach DIN EN 27721)

In keeping with current practice in standards published by the International Organization for Standardization (ISO), a comma has been used throughout as the decimal marker.

Foreword

This standard has been prepared by Technical Committee *Fachgrundnormen* of the *Normenausschuss Mechanische Verbindungselemente* (Fasteners Standards Committee).

Amendments

This standard differs from DIN 74-1, November 2000 edition, in that table 3 has been amended.

Previous editions

DIN 74-1: 1971-07, 1980-12, 2000-11.

All dimensions are in millimetres.

1 Scope

This standard specifies dimensions and designation of countersinks for countersunk head screws as in DIN 95, DIN 97, DIN 7969, DIN 7995, DIN 7997, and DIN EN ISO 10642.

NOTE: Countersinks for countersunk head screws with DIN EN 27721 head are specified in DIN 66.

2 Normative references

This standard incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the titles of the publications are listed below. For dated references, subsequent amendments to or revisions of any of these publications apply to this standard only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies.

- DIN 66 Countersinks for countersunk head screws with ISO 7721 common head style
- DIN 95 Slotted raised countersunk (oval) head wood screws
- DIN 97 Slotted countersunk (flat) head wood screws
- DIN 7969 Slotted countersunk head screws for structural steel bolting for supply with or without nut
- DIN 7995 Cross recessed raised countersunk head wood screws
- DIN 7997 Cross recessed countersunk head wood screws

Continued on pages 2 to 4.

Translation by DIN-Sprachendienst.

In case of doubt, the German-language original should be consulted as the authoritative text.

DIN EN 20273 Fasteners – Clearance holes for bolts and screws (ISO 273 : 1979)
 DIN EN 27721 Countersunk head screws – Head configuration and gauging (ISO 7721 : 1983)
 DIN EN ISO 10642 Hexagon socket countersunk head screws (ISO 10642 : 1997)

3 Dimensions and designation

Countersink dimensions shall be as given in figures 1 to 3 and tables 1 to 3.

3.1 Type A, for countersunk head wood screws as in DIN 97 and DIN 7997, and raised countersunk head wood screws as in DIN 95 and DIN 7995

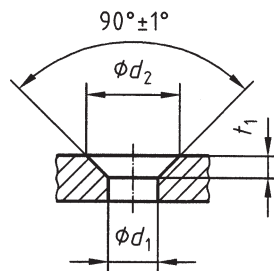


Figure 1: Type A countersink dimensions (notation)

Designation of a countersink of type A for a 4 mm screw thread diameter:

Countersink DIN 74 – A4

Table 1: Type A countersink dimensions

Thread size	1,6	2	2,5	3	3,5	4	4,5	5	5,5	6	7	8
d_1 ¹⁾ (H13)	1,8	2,4	2,9	3,4	3,9	4,5	5	5,5	6	6,6	7,6	9
d_2 (H13)	3,7	4,6	5,7	6,5	7,6	8,6	9,5	10,4	11,4	12,4	14,4	16,4
t_1 (approx.)	0,9	1,1	1,4	1,6	1,9	2,1	2,3	2,5	2,7	2,9	3,3	3,7

¹⁾ Diameter of clearance hole, medium series, as in DIN EN 20273.

3.2 Type E, for countersunk head screws as in DIN 7969

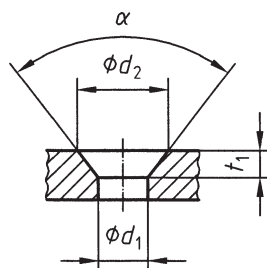


Figure 2: Type E countersink dimensions (notation)

Designation of a countersink of type E for a 12 mm screw thread diameter:

Countersink DIN 74 – E12